

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198944

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-T3R-7050-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6749 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

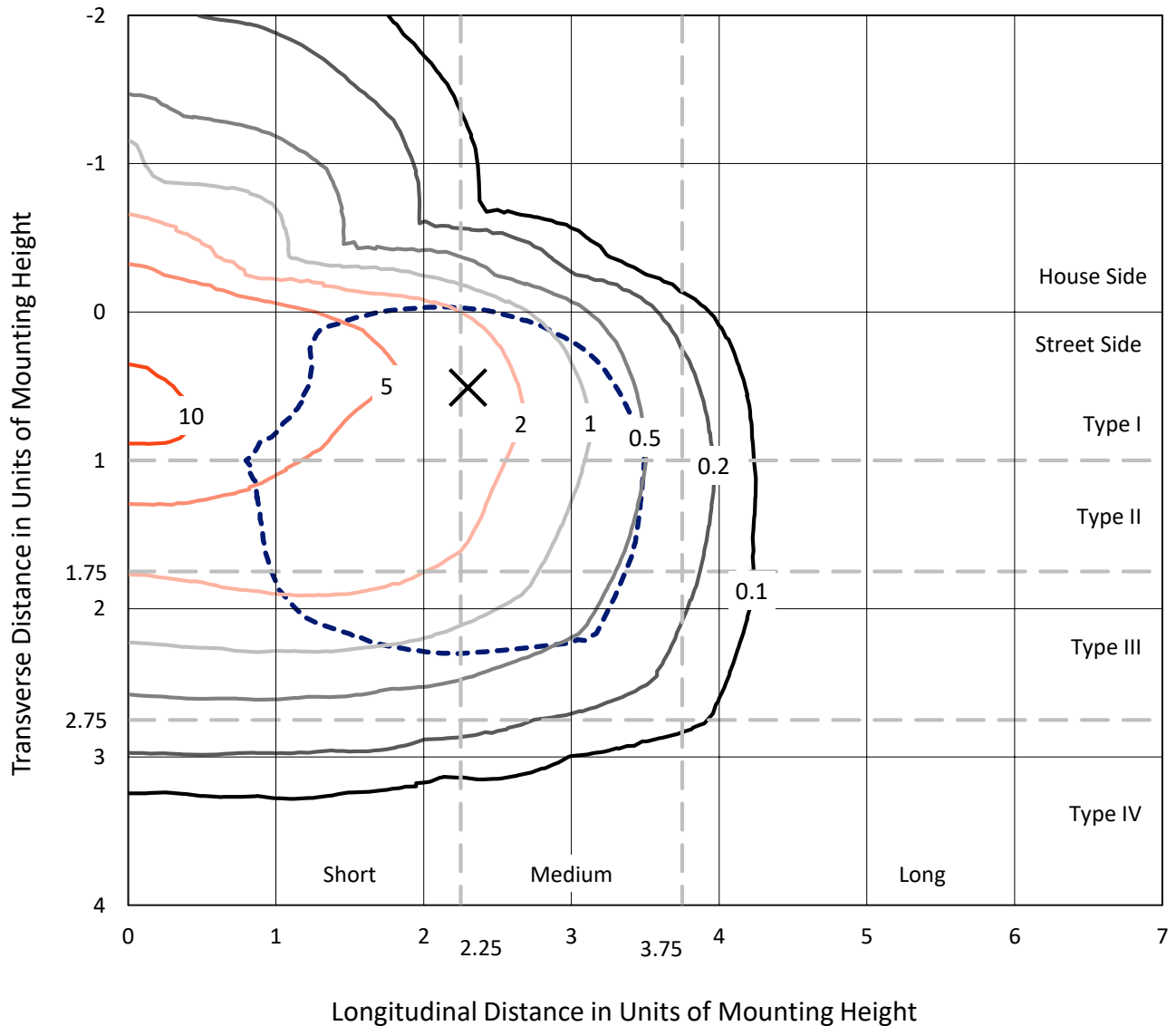


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

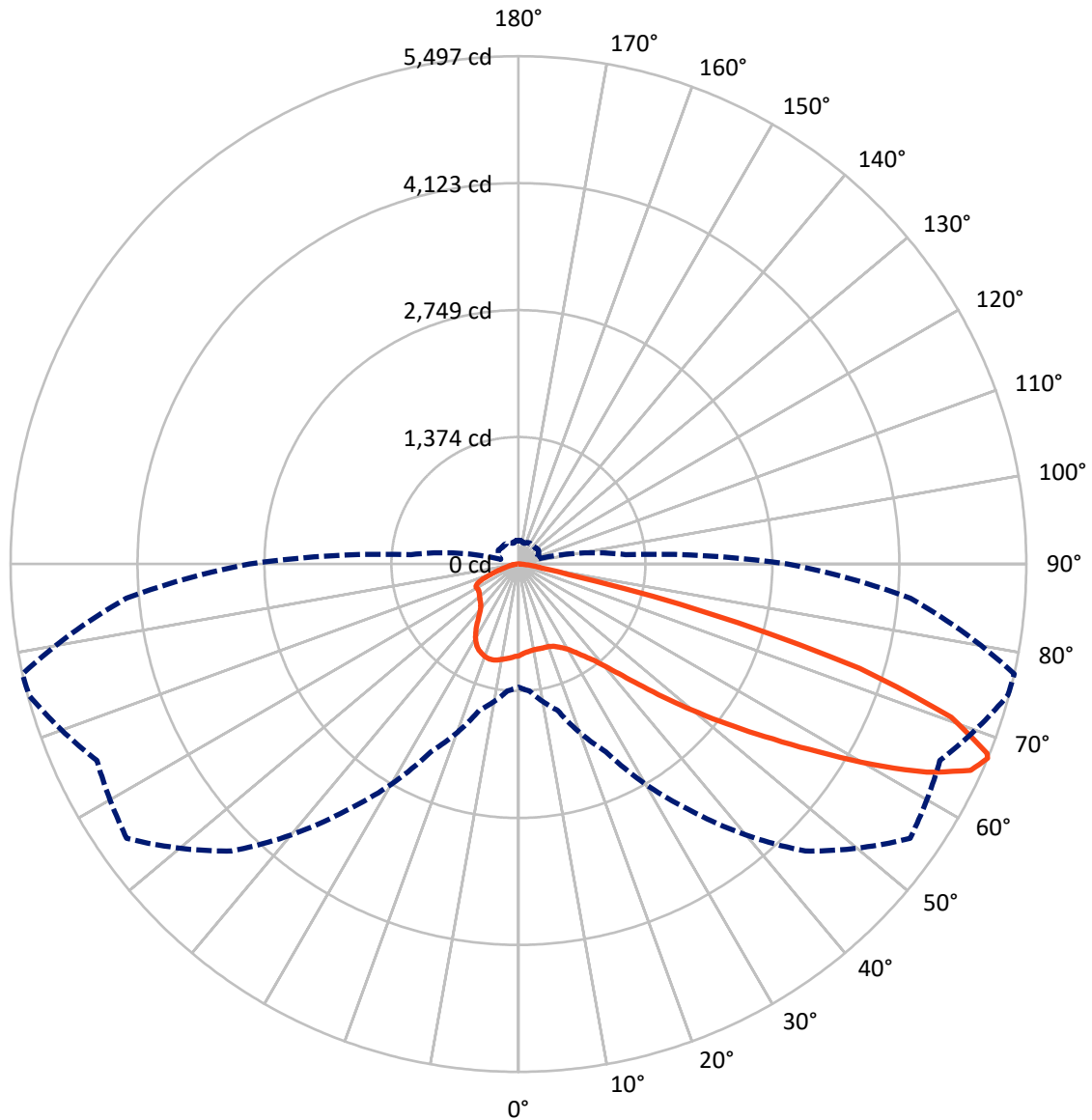


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1159.8	0.0	1159.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	5589.2	0.0	5589.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	6749.0	0.0	6749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	1.3
10°-20°	245.0	3.6
20°-30°	416.3	6.2
30°-40°	665.9	9.9
40°-50°	1025.2	15.2
50°-60°	1422.4	21.1
60°-70°	1897.3	28.1
70°-80°	902.9	13.4
80°-90°	85.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6749.0	100.0
0°-180°	6749.0	100.0

**Coefficient of Utilization**



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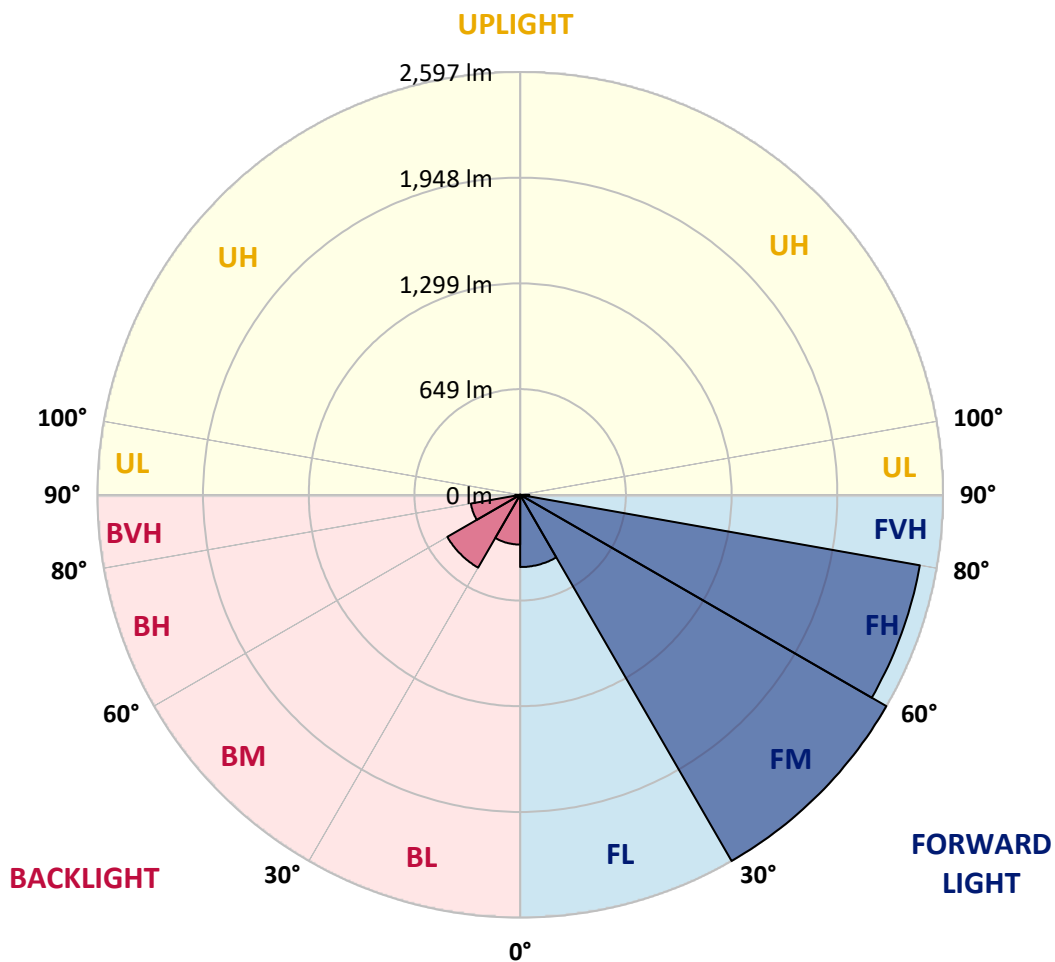
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.8	6.6			
FM	(30°-60°)	2597.1	38.5			
FH	(60°-80°)	2492.8	36.9			G2/5000
FVH	(80°-90°)	55.5	0.8			G1/100
BL	(0°-30°)	305.9	4.5	B1/500		
BM	(30°-60°)	516.4	7.7	B1/1000		
BH	(60°-80°)	307.5	4.6	B1/500		G1/500
BVH	(80°-90°)	30.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3
2.5°	890.7	894.8	895.2	907.3	912.8	926.5	941.5	954.9	966.6	970.7	978.3
5°	801.4	801.4	802.6	810.6	826.0	848.1	879.4	913.6	949.5	958.2	980.3
7.5°	754.7	755.5	756.3	764.3	776.3	796.0	827.2	874.0	933.6	948.2	987.0
10°	758.8	757.6	753.4	751.7	756.7	769.3	796.4	844.3	920.3	942.8	999.1
12.5°	824.3	821.8	808.1	788.0	769.7	765.1	783.9	829.3	914.0	942.8	1019.6
15°	936.5	938.2	911.1	869.4	821.4	788.9	786.4	823.9	911.9	945.3	1043.3
17.5°	1082.5	1083.4	1045.8	985.3	905.7	838.5	803.5	823.9	911.9	947.8	1066.3
20°	1237.7	1231.9	1189.3	1113.4	1010.0	907.3	834.8	828.9	914.4	951.6	1088.0
22.5°	1370.8	1365.4	1320.8	1241.1	1122.6	988.7	876.9	845.6	928.2	967.0	1118.4
25°	1487.2	1490.5	1447.2	1357.5	1234.8	1080.5	939.9	884.0	957.0	994.9	1156.0
27.5°	1628.6	1622.4	1572.3	1486.8	1350.4	1175.6	1018.7	932.4	991.2	1028.7	1201.9
30°	1792.2	1789.2	1721.6	1633.6	1477.6	1282.0	1096.7	984.5	1035.8	1075.0	1259.4
32.5°	1990.7	1990.3	1917.7	1809.7	1620.7	1402.1	1188.9	1055.9	1100.9	1140.5	1335.8
35°	2215.6	2215.2	2140.1	1997.4	1785.5	1535.2	1297.4	1142.6	1181.4	1223.1	1426.7
37.5°	2371.6	2369.1	2329.9	2191.4	1967.8	1689.9	1433.0	1259.4	1272.8	1319.5	1536.4
40°	2401.6	2416.7	2450.4	2368.7	2166.8	1861.8	1569.0	1385.0	1397.5	1457.6	1674.5
42.5°	2369.1	2388.7	2500.9	2523.9	2365.8	2070.0	1739.2	1559.0	1574.8	1649.5	1836.8
45°	2340.7	2357.8	2498.4	2609.8	2562.2	2296.9	1951.5	1771.3	1801.3	1893.9	2022.0
47.5°	2292.3	2308.2	2449.2	2625.2	2674.5	2515.5	2207.2	2026.6	2078.3	2190.5	2233.1
50°	2289.8	2296.9	2382.0	2573.5	2713.3	2681.6	2490.5	2325.3	2404.6	2533.9	2466.7
52.5°	2226.4	2276.1	2353.2	2490.9	2714.1	2778.3	2769.6	2652.8	2775.0	2918.1	2722.9
55°	1838.5	1895.6	2257.3	2450.4	2709.1	2861.4	3024.5	3001.1	3192.2	3342.8	3009.9
57.5°	1716.6	1740.8	1980.3	2462.5	2750.8	2998.6	3279.4	3375.3	3669.4	3833.8	3354.0
60°	1683.3	1708.7	1924.8	2468.4	2863.9	3248.5	3625.2	3797.9	4230.5	4404.9	3744.9
62.5°	1646.1	1679.1	1929.0	2473.8	3062.4	3618.1	4084.1	4256.4	4806.6	4962.2	4111.2
65°	1537.7	1581.5	1851.8	2439.6	3279.8	4082.0	4690.6	4734.4	5282.6	5381.5	4332.3
67°	1332.0	1380.0	1639.9	2241.9	3259.7	4394.4	5175.8	5033.5	5484.9	5497.0	4260.5
67.5°	1266.9	1316.6	1568.1	2159.7	3202.6	4435.3	5261.7	5074.8	5483.2	5469.9	4193.8
70°	853.1	909.0	1110.5	1585.7	2568.9	4127.9	5240.9	4947.6	5123.6	4970.5	3603.1
72.5°	423.4	425.1	554.0	868.5	1556.5	2960.6	4371.9	4232.6	4153.3	3864.2	2644.0
75°	204.0	207.7	261.6	383.8	656.2	1528.5	2981.5	2855.9	2431.7	2105.4	1323.3
77.5°	155.6	159.4	203.2	249.9	273.7	498.5	1476.8	1193.5	704.6	562.8	372.9
80°	120.1	127.2	171.5	191.9	181.1	199.8	464.3	365.4	274.1	251.6	184.8
82.5°	93.9	98.0	145.6	145.6	125.2	133.9	216.1	211.1	170.2	153.5	99.3
85°	66.3	74.7	117.2	108.5	82.2	83.0	129.3	123.9	87.6	70.5	38.8
87.5°	29.6	38.0	83.4	70.9	43.8	33.8	53.0	45.5	34.6	26.7	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3	993.3
2.5°	986.6	993.3	1003.7	1010.0	1018.3	1021.6	1025.0	1030.8	1035.4	1034.2	1032.1
5°	995.8	1007.0	1020.0	1024.1	1024.1	1020.0	1017.5	1017.9	1016.6	1015.8	1013.3
7.5°	1009.1	1024.6	1033.7	1029.6	1016.6	1000.4	984.9	975.8	967.0	961.6	963.2
10°	1027.9	1045.0	1045.4	1027.1	996.2	960.7	930.3	910.7	891.9	883.6	886.1
12.5°	1055.0	1072.1	1057.5	1017.9	963.7	908.2	852.3	811.8	775.5	766.8	764.3
15°	1084.2	1097.6	1065.0	998.3	916.9	825.6	731.7	671.2	630.8	623.7	621.2
17.5°	1109.7	1117.2	1061.3	963.2	843.1	699.2	589.9	549.0	540.6	544.8	544.8
20°	1132.2	1129.7	1045.0	909.0	726.7	559.0	495.6	495.2	506.4	516.9	517.7
22.5°	1160.6	1141.0	1019.1	828.5	587.8	466.4	455.5	466.4	478.9	490.6	491.8
25°	1194.4	1153.5	984.5	713.8	472.7	423.4	428.0	437.2	445.1	454.3	454.7
27.5°	1228.1	1163.1	935.7	579.0	410.1	395.9	400.9	404.7	406.7	412.6	412.6
30°	1267.4	1170.6	865.2	463.9	381.3	371.7	368.8	367.1	368.8	376.7	377.1
32.5°	1316.6	1183.9	768.8	398.0	367.9	354.6	339.6	331.2	337.1	351.3	353.8
35°	1372.5	1199.8	653.3	371.7	363.4	346.2	318.7	305.8	307.9	320.8	322.9
37.5°	1442.6	1220.2	539.4	365.4	367.9	345.4	309.1	290.8	281.6	282.0	281.6
40°	1532.3	1240.7	449.3	367.1	378.0	347.5	304.5	275.7	256.6	257.4	259.1
42.5°	1626.1	1254.0	392.1	372.1	390.1	350.4	302.9	261.1	244.5	258.6	271.6
45°	1735.8	1250.3	362.5	376.7	399.2	351.7	296.6	259.5	245.7	288.3	312.5
47.5°	1861.8	1234.0	345.8	378.8	401.7	351.3	292.0	264.9	256.1	330.0	357.5
50°	1998.6	1208.5	332.5	375.5	400.5	349.6	297.0	271.6	260.3	339.2	360.4
52.5°	2148.4	1185.2	318.7	367.9	394.2	344.6	303.3	268.7	248.6	312.5	328.7
55°	2325.7	1179.7	303.3	355.0	383.8	339.2	299.9	259.5	235.7	277.0	287.0
57.5°	2528.5	1213.5	283.3	339.2	369.6	328.3	292.0	254.5	231.1	252.0	257.4
60°	2785.8	1288.2	262.0	322.5	352.1	312.0	284.9	255.7	232.4	248.2	249.5
62.5°	2986.9	1355.4	242.8	302.0	328.7	292.4	277.4	257.0	236.1	253.2	251.1
65°	3059.9	1322.4	219.0	271.6	295.8	270.7	267.0	257.8	236.1	256.1	251.6
67°	2910.2	1165.1	196.5	241.1	264.5	251.6	257.0	254.5	231.9	255.7	247.8
67.5°	2838.8	1109.7	190.6	236.1	256.1	245.7	254.5	252.8	230.7	254.9	245.7
70°	2341.1	796.0	161.0	198.2	214.4	216.5	239.0	242.0	220.7	239.5	222.8
72.5°	1665.7	498.1	138.9	153.5	173.1	185.2	218.2	227.4	207.3	208.2	194.4
75°	824.3	267.4	123.9	118.5	134.7	154.4	190.2	207.3	187.7	173.5	169.0
77.5°	278.3	151.4	104.7	95.5	104.7	123.9	157.7	181.1	165.6	146.8	143.9
80°	143.9	110.1	81.8	76.8	82.6	95.9	123.5	150.6	141.4	142.3	117.2
82.5°	89.7	67.2	58.8	58.4	62.6	73.4	90.9	122.2	121.4	103.9	75.5
85°	41.7	38.8	37.5	38.8	40.0	41.7	59.2	87.2	92.2	55.9	49.6
87.5°	17.5	17.1	15.0	16.3	17.9	17.5	23.8	37.1	51.7	35.0	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)