

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: P198942

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198942
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6152 lumens
Efficiency: N/A
Efficacy: 106.1 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

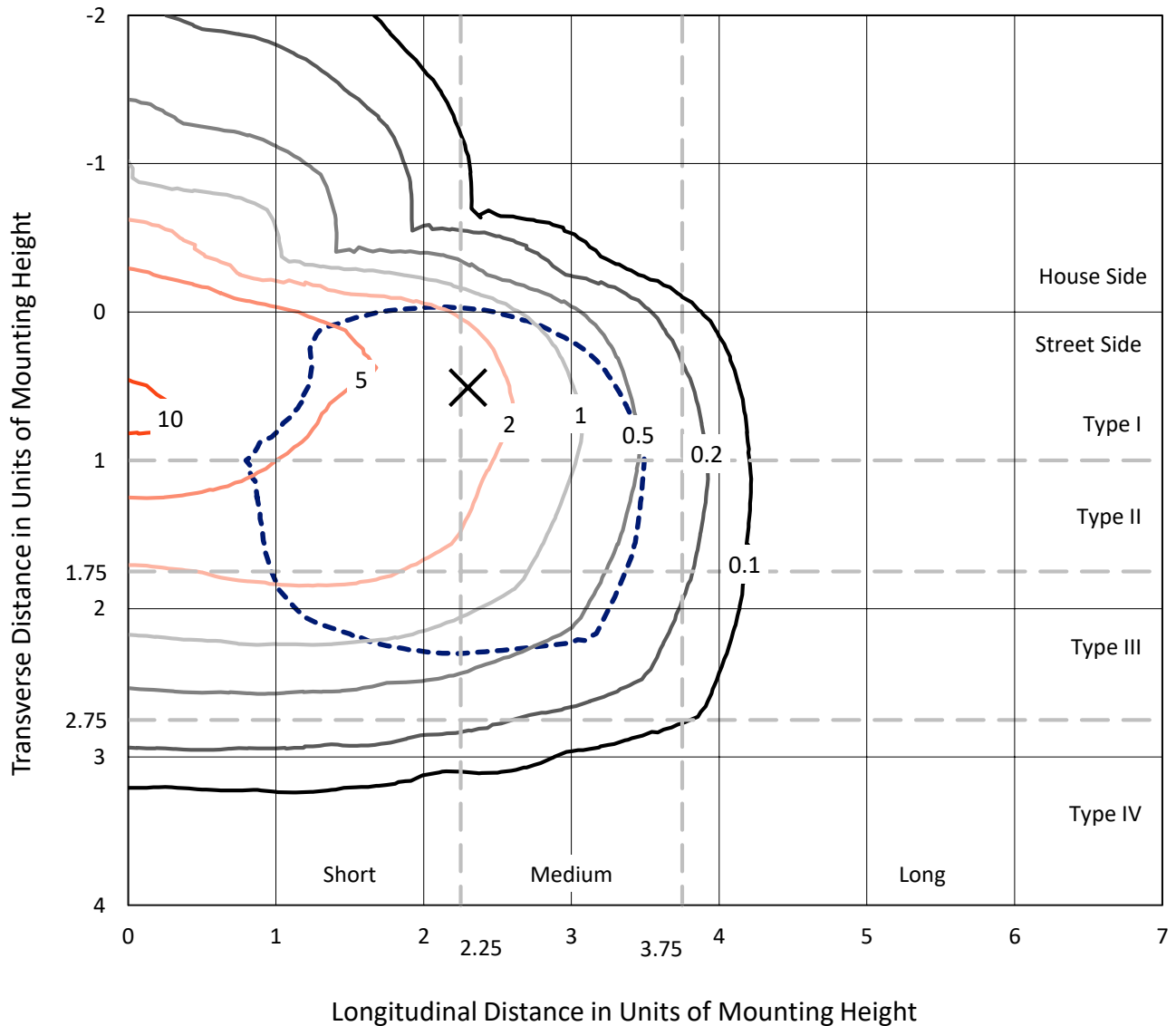
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

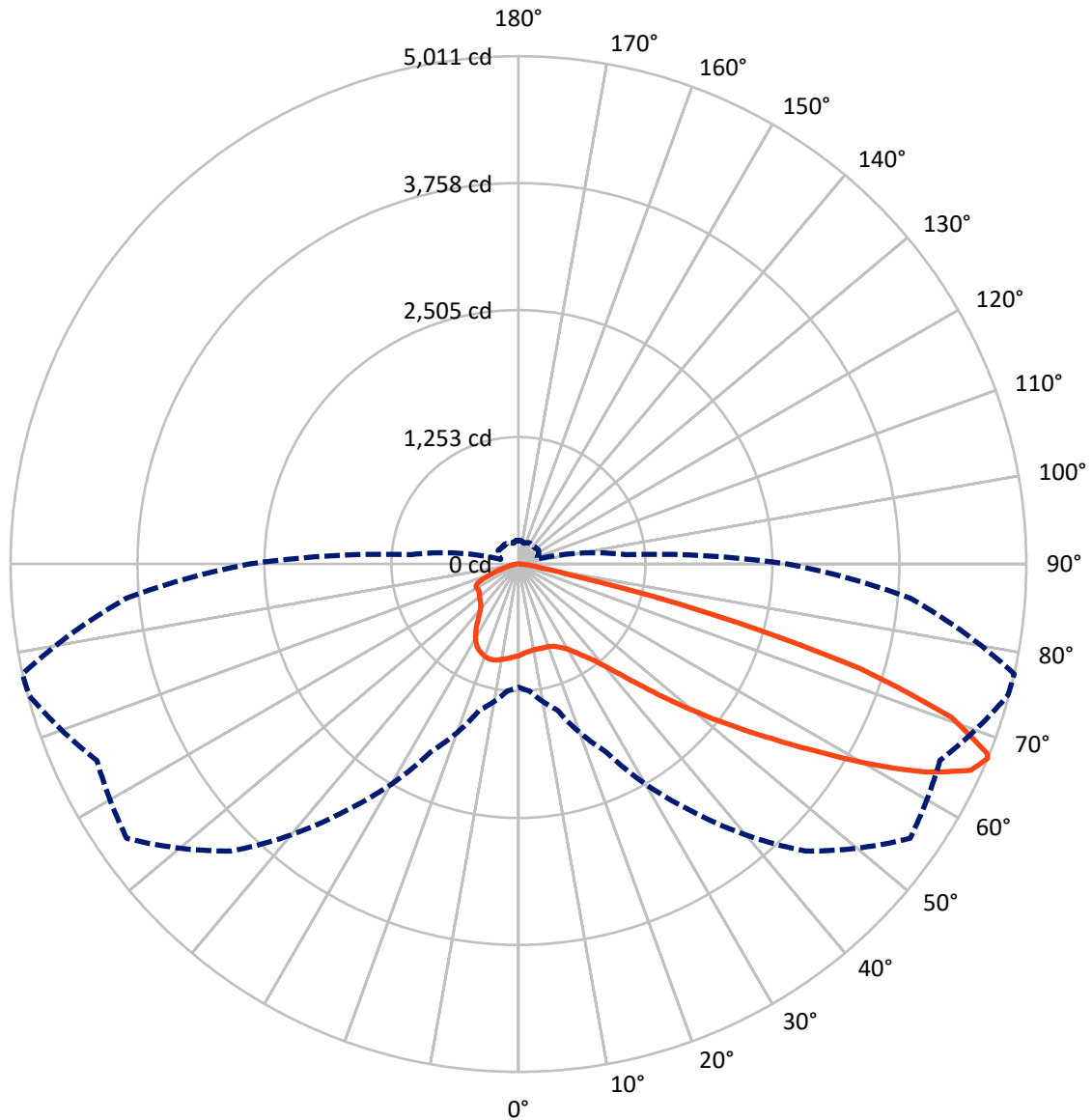


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - Full Cutoff

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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
House Side	Lumens	1057.2	0.0	1057.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5094.8	0.0	5094.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	6152.0	0.0	6152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.3
10°-20°	223.3	3.6
20°-30°	379.4	6.2
30°-40°	607.0	9.9
40°-50°	934.5	15.2
50°-60°	1296.5	21.1
60°-70°	1729.5	28.1
70°-80°	823.1	13.4
80°-90°	77.9	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°	6152.0	100.0
0°-180°	6152.0	100.0

Coefficient of Utilization



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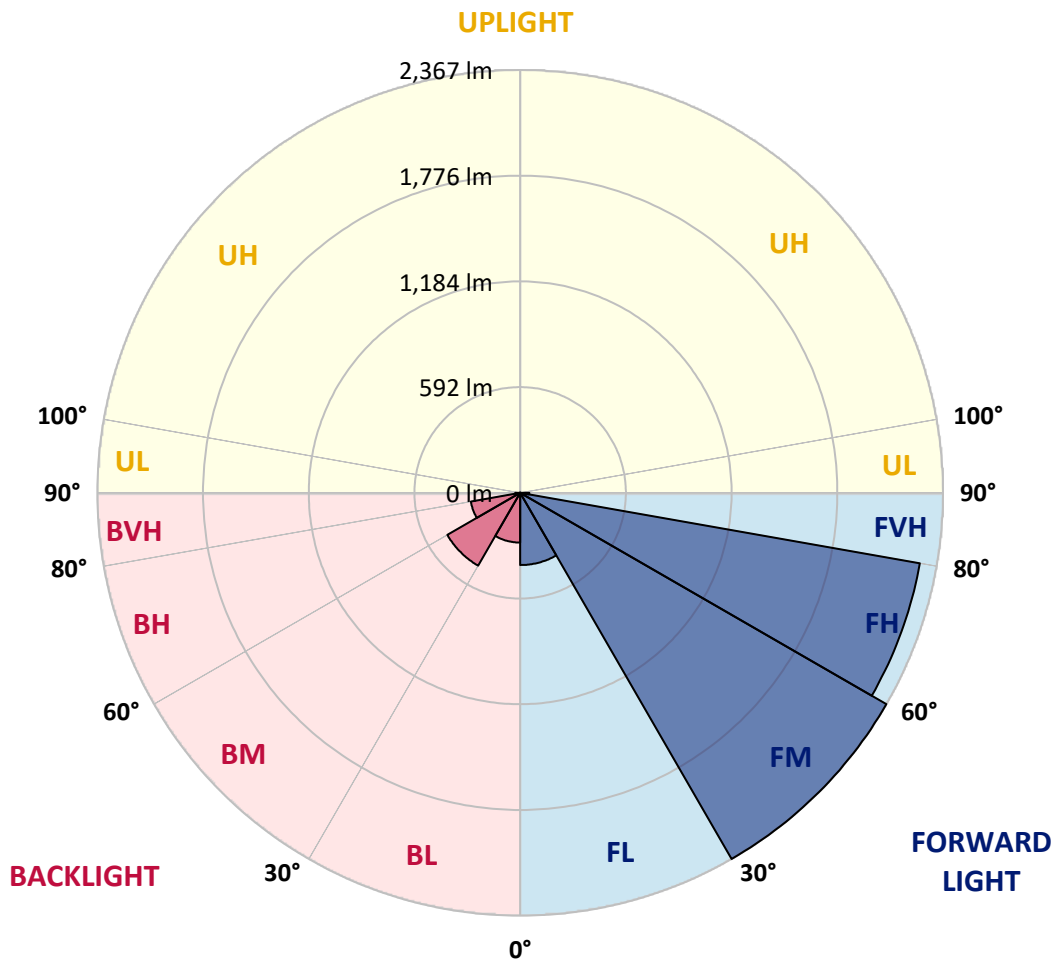
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.6	6.6			
FM	(30°-60°)	2367.3	38.5			
FH	(60°-80°)	2272.3	36.9			G2/5000
FVH	(80°-90°)	50.6	0.8			G1/100
BL	(0°-30°)	278.9	4.5	B1/500		
BM	(30°-60°)	470.7	7.7	B1/1000		
BH	(60°-80°)	280.3	4.6	B1/500		G1/500
BVH	(80°-90°)	27.3	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°	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4
2.5°	811.9	815.7	816.1	827.1	832.0	844.6	858.3	870.4	881.1	884.9	891.7
5°	730.5	730.5	731.6	738.9	752.9	773.1	801.6	832.8	865.5	873.5	893.6
7.5°	687.9	688.7	689.4	696.6	707.7	725.5	754.1	796.7	851.0	864.3	899.7
10°	691.7	690.6	686.8	685.2	689.8	701.2	725.9	769.7	838.9	859.4	910.7
12.5°	751.4	749.1	736.6	718.3	701.6	697.4	714.5	756.0	833.2	859.4	929.4
15°	853.7	855.2	830.5	792.5	748.7	719.1	716.8	751.0	831.3	861.7	951.0
17.5°	986.8	987.6	953.3	898.2	825.6	764.3	732.4	751.0	831.3	864.0	972.0
20°	1128.2	1122.9	1084.1	1014.9	920.6	827.1	760.9	755.6	833.5	867.4	991.7
22.5°	1249.6	1244.6	1203.9	1131.3	1023.3	901.2	799.3	770.8	846.1	881.5	1019.5
25°	1355.6	1358.7	1319.1	1237.4	1125.6	984.9	856.7	805.8	872.3	906.9	1053.7
27.5°	1484.6	1478.9	1433.2	1355.3	1230.9	1071.6	928.6	849.9	903.5	937.7	1095.5
30°	1633.6	1631.0	1569.4	1489.1	1346.9	1168.6	999.7	897.4	944.2	979.9	1148.0
32.5°	1814.6	1814.2	1748.1	1649.6	1477.3	1278.1	1083.8	962.5	1003.5	1039.6	1217.6
35°	2019.6	2019.2	1950.8	1820.7	1627.5	1399.4	1182.6	1041.5	1076.9	1114.9	1300.5
37.5°	2161.8	2159.5	2123.8	1997.5	1793.7	1540.5	1306.2	1148.0	1160.2	1202.8	1400.5
40°	2189.2	2202.9	2233.7	2159.1	1975.1	1697.1	1430.2	1262.5	1273.9	1328.6	1526.4
42.5°	2159.5	2177.4	2279.7	2300.6	2156.5	1886.9	1585.3	1421.1	1435.5	1503.6	1674.3
45°	2133.7	2149.3	2277.4	2378.9	2335.6	2093.7	1778.9	1614.6	1642.0	1726.4	1843.1
47.5°	2089.6	2104.0	2232.5	2393.0	2437.9	2293.0	2012.0	1847.3	1894.5	1996.8	2035.6
50°	2087.3	2093.7	2171.3	2345.9	2473.2	2444.3	2270.2	2119.6	2191.9	2309.7	2248.5
52.5°	2029.5	2074.7	2145.1	2270.6	2474.0	2532.6	2524.6	2418.1	2529.5	2660.0	2482.0
55°	1675.8	1727.9	2057.6	2233.7	2469.4	2608.2	2756.9	2735.6	2909.8	3047.1	2743.6
57.5°	1564.8	1586.8	1805.1	2244.7	2507.5	2733.4	2989.3	3076.7	3344.8	3494.6	3057.3
60°	1534.4	1557.6	1754.5	2250.0	2610.5	2961.1	3304.5	3461.9	3856.3	4015.2	3413.6
62.5°	1500.5	1530.6	1758.3	2255.0	2791.5	3298.0	3722.8	3879.9	4381.4	4523.3	3747.5
65°	1401.7	1441.6	1688.0	2223.8	2989.6	3720.9	4275.7	4315.6	4815.3	4905.4	3949.1
67°	1214.2	1257.9	1494.8	2043.5	2971.4	4005.7	4718.0	4588.3	4999.7	5010.8	3883.7
67.5°	1154.9	1200.1	1429.4	1968.6	2919.3	4043.0	4796.3	4625.9	4998.2	4986.0	3822.8
70°	777.6	828.6	1012.3	1445.4	2341.7	3762.7	4777.3	4510.0	4670.4	4530.9	3284.4
72.5°	386.0	387.5	505.0	791.7	1418.8	2698.7	3985.2	3858.2	3785.9	3522.4	2410.1
75°	185.9	189.4	238.4	349.8	598.2	1393.3	2717.8	2603.3	2216.6	1919.2	1206.2
77.5°	141.8	145.3	185.2	227.8	249.5	454.4	1346.1	1087.9	642.3	513.0	340.0
80°	109.5	116.0	156.3	174.9	165.0	182.1	423.2	333.1	249.8	229.3	168.5
82.5°	85.6	89.4	132.7	132.7	114.1	122.1	197.0	192.4	155.1	139.9	90.5
85°	60.5	68.1	106.9	98.9	74.9	75.7	117.9	112.9	79.9	64.3	35.4
87.5°	27.0	34.6	76.1	64.6	39.9	30.8	48.3	41.4	31.6	24.3	16.4
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°	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4
2.5°	899.3	905.4	914.9	920.6	928.2	931.3	934.3	939.6	943.8	942.7	940.8
5°	907.7	918.0	929.7	933.6	933.6	929.7	927.5	927.8	926.7	925.9	923.7
7.5°	919.9	933.9	942.3	938.5	926.7	911.9	897.8	889.4	881.5	876.5	878.0
10°	937.0	952.6	952.9	936.2	908.1	875.8	848.0	830.1	813.0	805.4	807.7
12.5°	961.7	977.3	964.0	927.8	878.4	827.8	776.9	740.0	706.9	698.9	696.6
15°	988.3	1000.5	970.8	910.0	835.8	752.5	667.0	611.8	575.0	568.5	566.2
17.5°	1011.5	1018.4	967.4	878.0	768.5	637.3	537.7	500.4	492.8	496.6	496.6
20°	1032.0	1029.8	952.6	828.6	662.4	509.6	451.8	451.4	461.6	471.1	471.9
22.5°	1057.9	1040.0	929.0	755.2	535.8	425.1	415.3	425.1	436.5	447.2	448.3
25°	1088.7	1051.4	897.4	650.6	430.8	386.0	390.2	398.5	405.7	414.1	414.5
27.5°	1119.5	1060.2	852.9	527.8	373.8	360.9	365.4	368.9	370.8	376.1	376.1
30°	1155.2	1067.0	788.7	422.9	347.6	338.8	336.2	334.6	336.2	343.4	343.8
32.5°	1200.1	1079.2	700.8	362.8	335.4	323.2	309.5	301.9	307.3	320.2	322.5
35°	1251.1	1093.6	595.5	338.8	331.2	315.6	290.5	278.7	280.6	292.4	294.3
37.5°	1315.0	1112.3	491.7	333.1	335.4	314.9	281.8	265.0	256.7	257.1	256.7
40°	1396.7	1130.9	409.5	334.6	344.5	316.8	277.6	251.4	233.9	234.6	236.1
42.5°	1482.3	1143.1	357.4	339.2	355.5	319.4	276.1	238.0	222.8	235.8	247.6
45°	1582.3	1139.7	330.5	343.4	363.9	320.6	270.4	236.5	224.0	262.8	284.8
47.5°	1697.1	1124.8	315.2	345.3	366.2	320.2	266.2	241.5	233.5	300.8	325.9
50°	1821.9	1101.6	303.1	342.2	365.1	318.7	270.7	247.6	237.3	309.2	328.5
52.5°	1958.4	1080.3	290.5	335.4	359.4	314.1	276.5	244.9	226.6	284.8	299.6
55°	2120.0	1075.4	276.5	323.6	349.8	309.2	273.4	236.5	214.9	252.5	261.6
57.5°	2304.8	1106.2	258.2	309.2	336.9	299.3	266.2	232.0	210.7	229.7	234.6
60°	2539.4	1174.3	238.8	293.9	320.9	284.4	259.7	233.1	211.8	226.3	227.4
62.5°	2722.7	1235.5	221.3	275.3	299.6	266.6	252.9	234.2	215.2	230.8	228.9
65°	2789.2	1205.4	199.6	247.6	269.6	246.8	243.4	235.0	215.2	233.5	229.3
67°	2652.7	1062.1	179.1	219.8	241.1	229.3	234.2	232.0	211.4	233.1	225.9
67.5°	2587.7	1011.5	173.8	215.2	233.5	224.0	232.0	230.4	210.3	232.3	224.0
70°	2134.1	725.5	146.8	180.6	195.5	197.4	217.9	220.6	201.2	218.3	203.1
72.5°	1518.4	454.0	126.6	139.9	157.8	168.8	198.9	207.2	189.0	189.8	177.2
75°	751.4	243.8	112.9	108.0	122.8	140.7	173.4	189.0	171.1	158.2	154.0
77.5°	253.6	138.0	95.4	87.1	95.4	112.9	143.7	165.0	151.0	133.9	131.2
80°	131.2	100.4	74.5	70.0	75.3	87.5	112.6	137.3	128.9	129.7	106.9
82.5°	81.8	61.2	53.6	53.2	57.0	66.9	82.9	111.4	110.7	94.7	68.8
85°	38.0	35.4	34.2	35.4	36.5	38.0	54.0	79.5	84.0	51.0	45.3
87.5°	16.0	15.6	13.7	14.8	16.4	16.0	21.7	33.8	47.2	31.9	29.3
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)