

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: P198556

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
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-SL3-7030-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4321 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

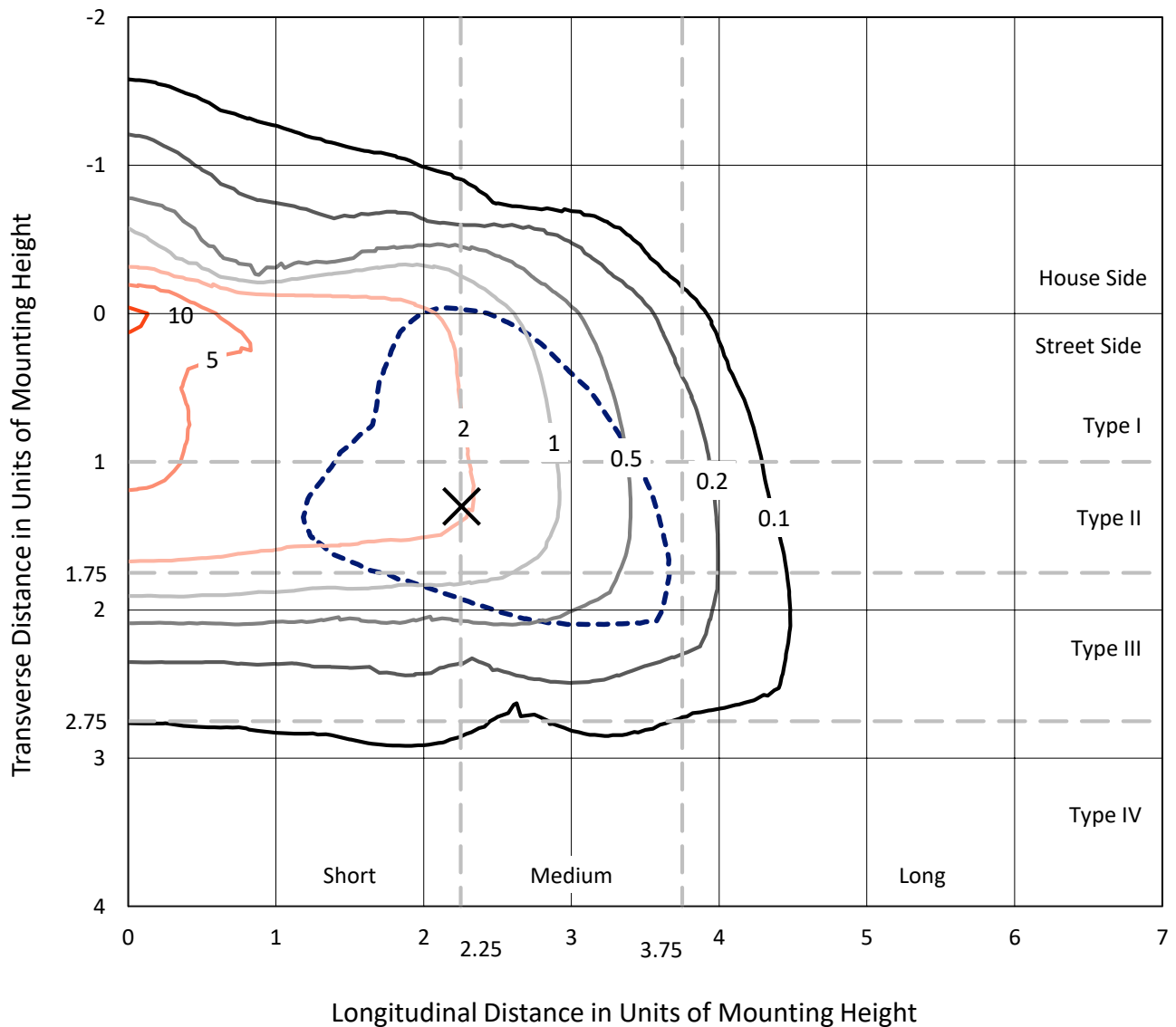
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

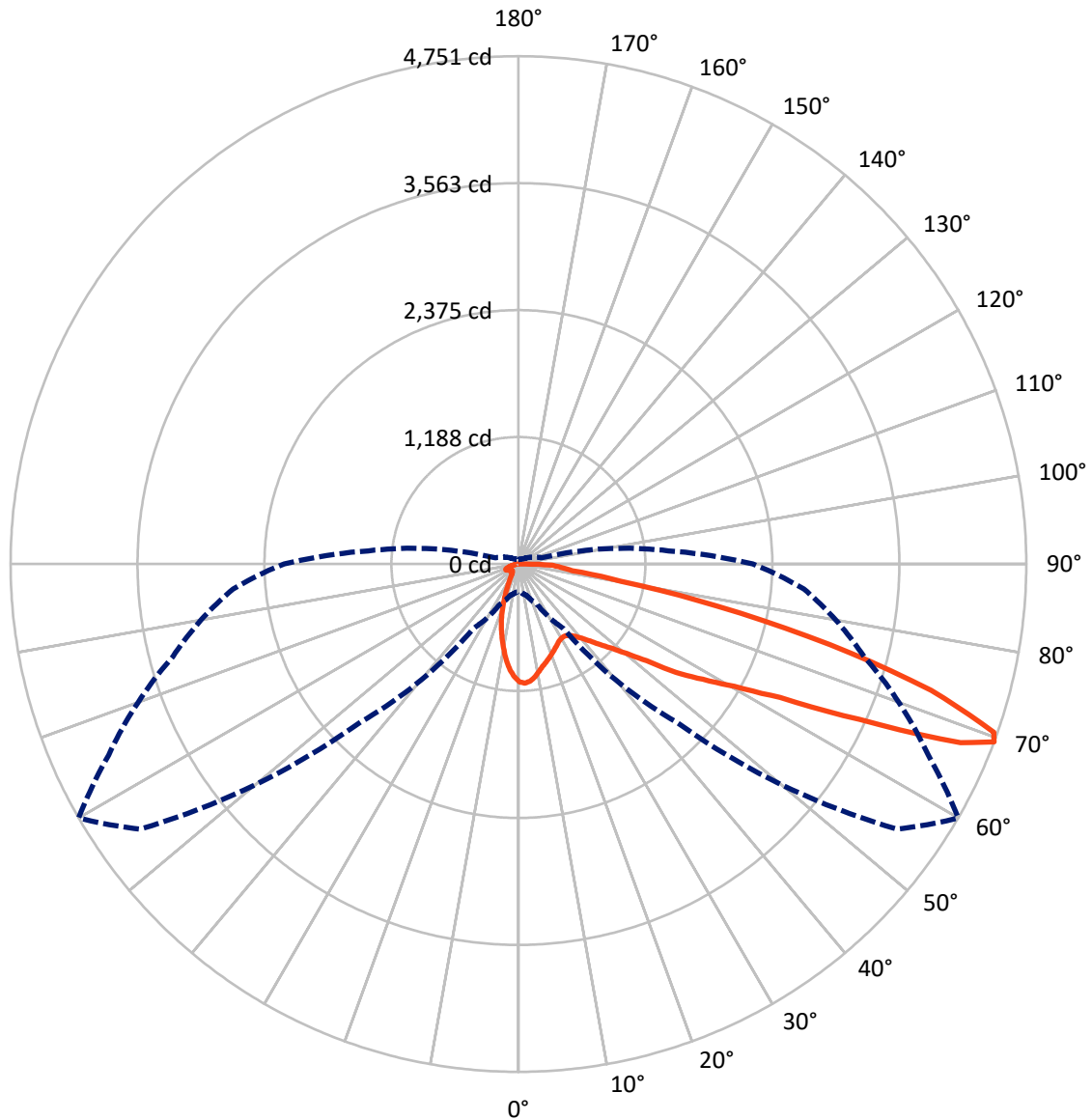
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	616.3	0.0	616.3
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	3704.7	0.0	3704.7
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	4321.0	0.0	4321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	2.2
10°-20°	200.3	4.6
20°-30°	255.5	5.9
30°-40°	351.6	8.1
40°-50°	569.4	13.2
50°-60°	893.7	20.7
60°-70°	1191.5	27.6
70°-80°	662.7	15.3
80°-90°	102.8	2.4
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°	4321.0	100.0
0°-180°	4321.0	100.0

**Coefficient of Utilization**



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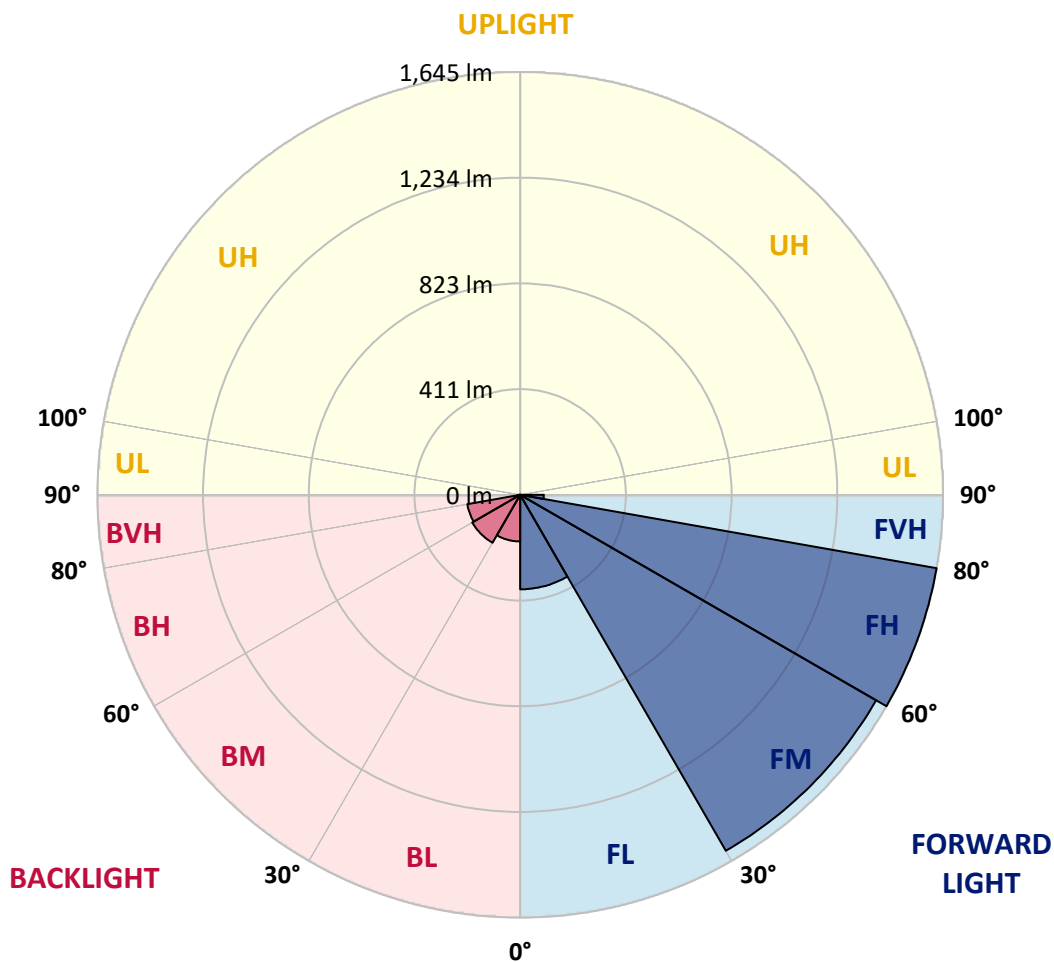
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.6	8.5			
FM	(30°-60°)	1599.4	37.0			
FH	(60°-80°)	1645.3	38.1			G1/1800
FVH	(80°-90°)	92.4	2.1			G1/100
BL	(0°-30°)	181.6	4.2	B1/500		
BM	(30°-60°)	215.3	5.0	B0/220		
BH	(60°-80°)	209.0	4.8	B1/500		G1/500
BVH	(80°-90°)	10.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1131.9	1134.9	1134.9	1132.4	1131.1	1123.0	1118.3	1115.0	1109.2	1098.4	1088.7
5°	1091.4	1097.3	1099.7	1100.9	1108.1	1105.6	1105.8	1103.6	1098.6	1087.0	1071.2
7.5°	1017.2	1018.3	1022.7	1030.2	1047.7	1059.8	1069.8	1071.8	1070.7	1062.1	1039.9
10°	944.0	946.0	951.2	964.0	980.6	998.1	1019.7	1028.5	1035.2	1032.4	1004.4
12.5°	883.3	883.6	889.4	904.1	922.7	944.6	973.9	987.8	1003.6	1010.0	978.7
15°	824.9	828.8	834.3	852.0	875.0	902.7	936.5	955.7	976.4	994.7	958.7
17.5°	780.5	783.6	786.9	801.6	828.2	862.8	904.7	925.2	952.6	980.6	938.2
20°	756.2	757.3	754.8	762.0	784.4	821.8	870.3	895.0	927.7	967.0	917.1
22.5°	751.2	751.2	742.0	740.6	750.6	782.2	834.9	865.1	905.0	957.6	898.3
25°	774.4	772.8	755.6	739.8	736.2	752.3	801.0	838.2	885.6	957.3	884.2
27.5°	818.5	816.3	795.0	768.4	745.4	738.4	775.0	813.0	870.3	966.7	877.0
30°	873.4	872.5	850.9	817.7	779.7	744.0	764.8	799.9	860.1	984.2	876.7
32.5°	933.5	929.6	916.3	883.1	833.7	774.7	770.8	800.5	857.3	1009.7	883.1
35°	997.5	994.7	991.4	957.9	902.5	829.0	797.7	819.6	870.9	1045.2	901.1
37.5°	1079.0	1075.9	1081.5	1044.9	984.2	900.2	843.2	857.9	898.6	1096.7	934.6
40°	1223.9	1215.0	1199.5	1143.2	1079.5	987.5	908.8	911.1	946.0	1165.7	988.4
42.5°	1461.9	1433.4	1356.6	1253.3	1180.1	1088.9	994.5	983.9	1011.4	1256.9	1066.5
45°	1700.5	1668.3	1538.6	1373.2	1284.3	1197.8	1100.3	1075.1	1092.8	1363.0	1167.1
47.5°	1854.5	1838.7	1692.4	1493.2	1393.5	1316.4	1221.4	1179.8	1192.6	1483.2	1291.2
50°	1899.7	1886.1	1771.1	1587.1	1496.5	1459.7	1371.3	1316.1	1318.4	1623.7	1440.0
52.5°	1865.9	1860.3	1784.1	1645.3	1591.3	1610.7	1578.8	1502.1	1483.8	1777.8	1601.3
55°	1820.7	1822.7	1793.3	1703.8	1687.7	1751.4	1850.4	1788.6	1711.0	1938.2	1769.2
57.5°	1678.6	1680.0	1757.0	1815.2	1871.7	1948.7	2061.8	2035.7	1945.4	2111.4	1957.3
60°	1351.6	1362.4	1533.9	1792.2	2082.0	2337.5	2365.2	2320.3	2194.8	2310.9	2202.0
62.5°	965.6	975.3	1174.0	1555.8	2057.3	2777.5	2925.5	2747.0	2533.1	2609.3	2546.1
65°	507.3	505.7	659.5	1075.1	1732.9	2879.5	3808.2	3504.6	3103.1	3019.7	2878.6
67.5°	283.5	292.6	352.2	542.3	1129.4	2534.2	4372.1	4461.6	3895.5	3345.2	2864.2
69°	262.1	265.2	305.1	419.2	736.2	2090.9	4323.6	4750.6	4229.7	3346.6	2679.7
70°	254.6	258.0	294.3	386.3	618.5	1713.2	4147.1	4716.8	4310.9	3272.4	2511.8
72.5°	228.3	232.8	267.9	347.2	521.2	883.1	3340.5	4037.1	3904.9	2860.1	1947.6
75°	194.8	202.3	255.5	344.7	493.8	561.4	2227.8	3007.7	2906.3	2045.4	1105.0
77.5°	80.6	81.5	111.7	252.4	518.1	537.3	1197.3	1905.2	1686.6	896.9	332.8
80°	56.2	55.1	55.7	73.7	418.1	540.9	614.3	969.0	753.1	236.6	155.7
82.5°	47.4	46.8	49.0	46.3	141.6	613.7	513.7	505.1	354.7	127.5	74.3
85°	31.3	30.5	40.2	42.1	67.3	487.4	552.5	397.1	264.3	68.2	31.6
87.5°	15.2	15.5	23.0	28.5	35.7	154.3	529.2	313.9	204.2	29.6	12.7
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°	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1084.8	1076.5	1069.0	1059.6	1052.4	1046.3	1038.0	1037.7	1036.3	1038.2	1038.8
5°	1060.7	1046.8	1025.8	1002.2	985.6	963.7	942.4	935.2	927.1	926.3	928.8
7.5°	1024.4	1002.8	966.7	930.7	894.7	857.9	822.9	805.2	788.0	782.8	785.3
10°	983.9	956.5	901.4	842.6	791.9	737.0	683.8	649.5	618.2	604.9	608.2
12.5°	952.3	917.4	839.8	763.6	687.7	609.0	538.9	471.0	419.8	396.8	398.2
15°	925.2	880.6	782.2	680.8	585.8	478.0	380.7	302.0	257.1	240.5	240.0
17.5°	895.8	841.8	722.1	603.8	480.5	347.2	254.9	208.4	190.6	185.1	185.1
20°	864.5	801.9	659.2	519.8	369.6	242.4	191.7	173.7	167.1	165.4	165.1
22.5°	835.4	762.8	596.0	430.3	267.4	184.0	163.2	156.3	155.2	156.6	156.6
25°	812.4	728.5	532.0	336.1	194.5	154.1	145.2	144.4	148.5	153.5	154.3
27.5°	795.2	697.7	468.8	245.5	153.0	134.1	131.1	134.7	144.4	154.3	156.3
30°	783.3	671.4	393.2	176.5	127.5	117.5	118.9	125.2	139.9	155.2	159.3
32.5°	778.1	650.0	317.0	135.5	108.9	103.4	107.0	115.3	130.5	145.7	150.7
35°	783.0	634.5	246.6	112.5	95.3	91.2	95.3	103.9	113.9	121.4	124.4
37.5°	801.0	629.0	185.6	99.8	86.5	82.3	85.6	91.4	95.9	98.6	100.0
40°	839.0	634.8	145.5	93.1	81.5	76.8	77.6	80.4	83.4	85.6	85.9
42.5°	899.4	653.9	129.4	90.6	78.4	72.3	70.9	72.9	76.2	79.2	79.8
45°	979.8	685.8	127.7	91.4	77.0	68.7	65.9	67.9	72.3	77.3	78.1
47.5°	1083.7	736.2	135.5	95.9	77.9	66.8	62.6	64.6	70.4	77.0	78.1
50°	1206.7	806.0	149.9	102.5	81.7	66.8	61.2	62.9	69.0	76.5	77.6
52.5°	1351.6	903.3	164.9	109.2	87.3	69.3	61.8	61.5	67.1	74.0	75.4
55°	1511.5	1024.1	179.3	115.0	90.3	72.6	63.2	59.9	64.3	69.8	70.9
57.5°	1699.6	1189.5	204.5	120.5	92.0	75.1	64.8	58.2	60.7	64.6	65.4
60°	1954.8	1432.5	253.5	130.0	95.0	76.2	65.1	56.5	56.2	59.0	59.3
62.5°	2287.6	1717.1	300.4	141.0	101.1	76.5	64.0	55.4	52.6	53.5	53.5
65°	2524.2	1821.8	286.8	150.5	106.7	76.2	62.9	54.6	49.9	48.5	48.5
67.5°	2389.6	1609.3	243.6	153.0	107.2	73.2	60.4	52.6	47.4	44.1	44.1
69°	2191.7	1410.6	223.6	148.5	102.8	69.5	57.6	50.7	45.7	41.8	41.8
70°	2030.5	1260.2	211.4	143.3	97.5	66.5	55.1	48.8	44.1	40.7	40.5
72.5°	1515.9	840.9	180.7	123.6	80.1	56.2	48.2	43.5	39.6	37.4	37.4
75°	799.9	421.4	148.0	100.9	61.8	44.9	39.6	36.6	34.4	34.1	33.8
77.5°	262.1	190.6	106.4	75.9	45.4	34.9	31.6	29.6	29.4	30.5	30.5
80°	141.6	113.9	68.4	51.3	31.6	26.0	24.4	24.1	24.9	26.6	26.6
82.5°	68.7	56.2	40.7	31.6	21.6	19.1	19.1	19.4	20.5	22.4	22.4
85°	29.6	26.6	23.6	17.7	13.3	11.9	13.6	15.0	15.8	17.2	17.7
87.5°	14.1	12.5	10.8	6.9	5.8	6.1	7.2	8.9	10.5	11.6	11.9
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)