

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: P233769

Luminaire Tested: **VERD-C01-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C01-D-U-T4-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 1230mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6423 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

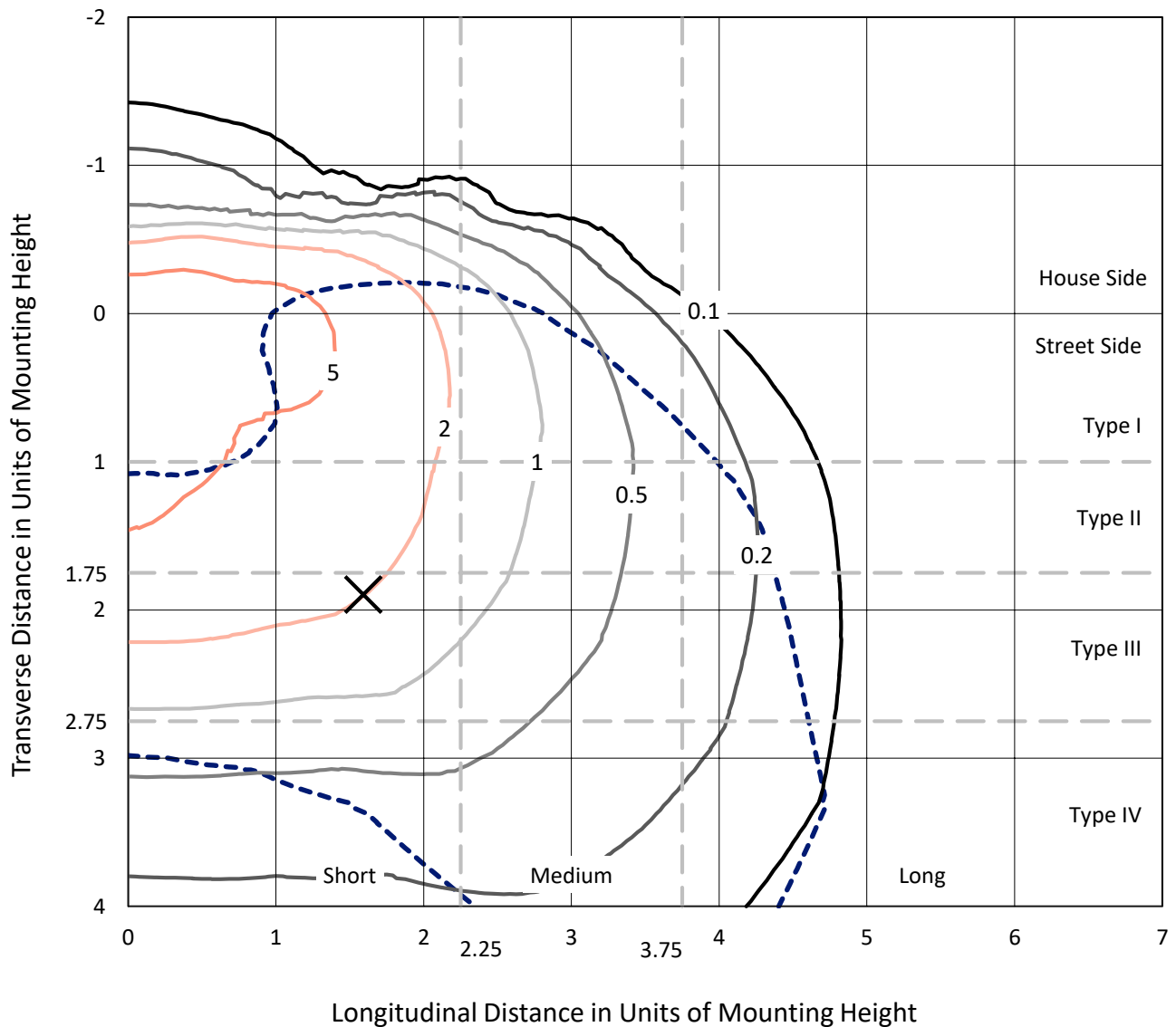
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

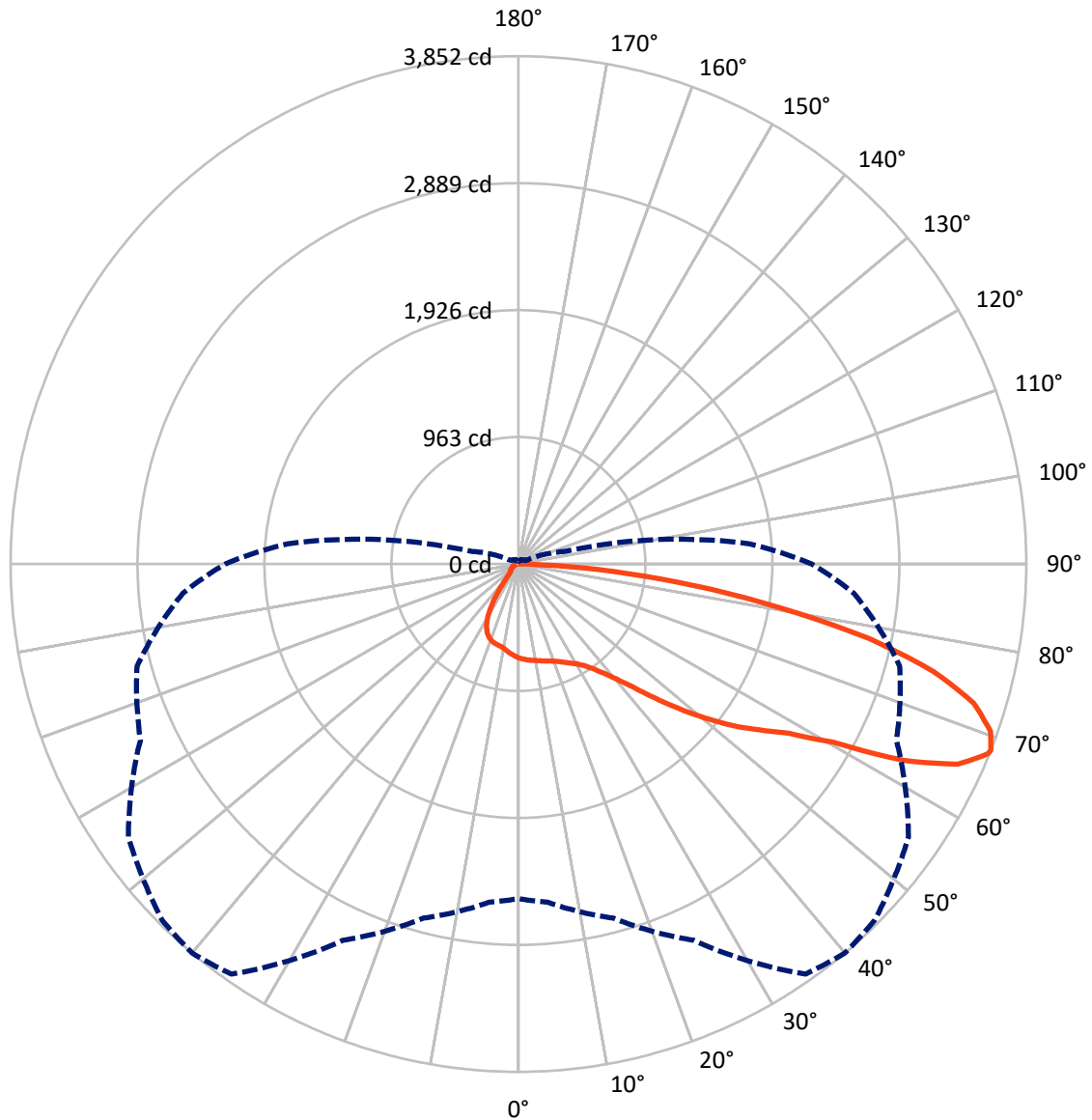


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1041.9	0.0	1041.9
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	5381.1	0.0	5381.1
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	6423.0	0.0	6423.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	1.1
10°-20°	202.8	3.2
20°-30°	340.4	5.3
30°-40°	504.1	7.8
40°-50°	852.8	13.3
50°-60°	1301.5	20.3
60°-70°	1704.2	26.5
70°-80°	1225.2	19.1
80°-90°	224.3	3.5
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°	6423.0	100.0
0°-180°	6423.0	100.0

**Coefficient of Utilization**



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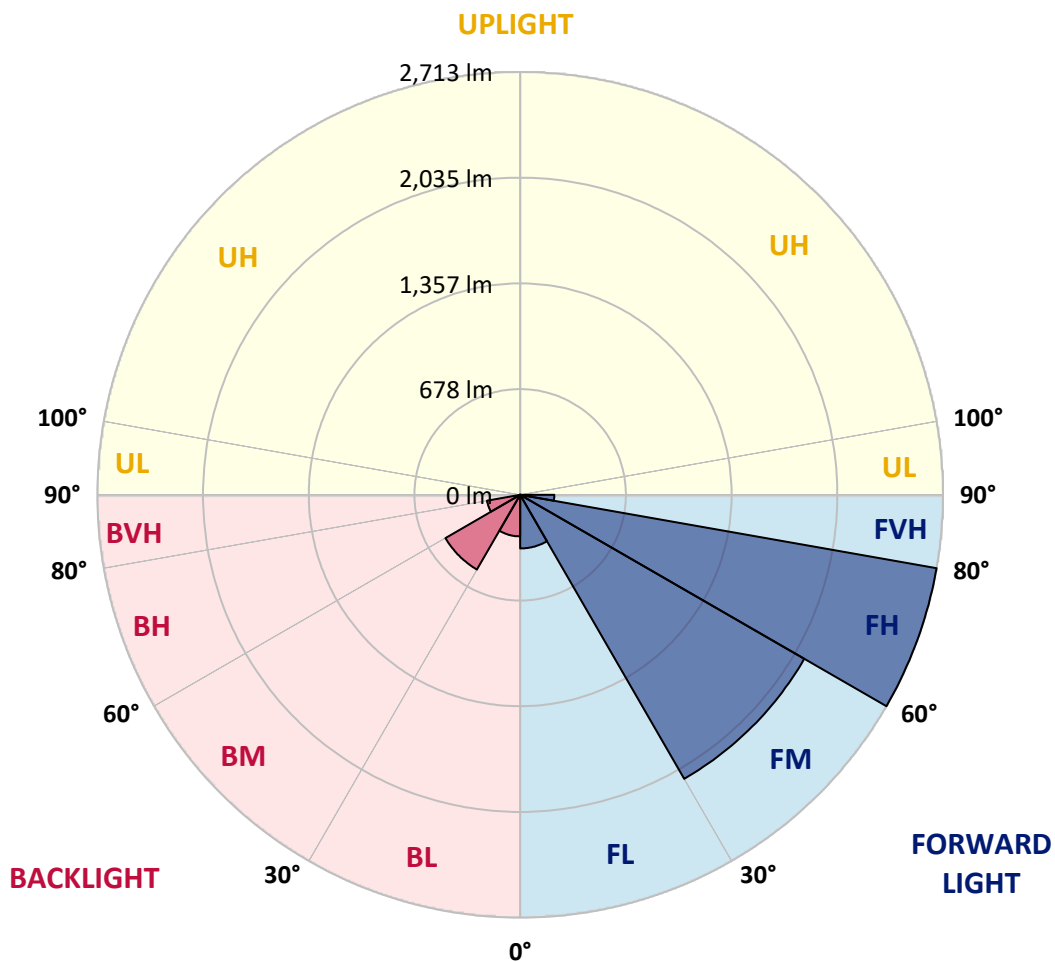
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.3	5.4			
FM (30°-60°)	2104.6	32.8			
FH (60°-80°)	2713.2	42.2			G2/5000
FVH (80°-90°)	219.0	3.4			G2/225
BL (0°-30°)	266.6	4.2	B1/500		
BM (30°-60°)	553.8	8.6	B1/1000		
BH (60°-80°)	216.2	3.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7
2.5°	736.3	737.9	735.8	730.4	724.5	721.2	720.7	720.2	717.5	713.7	708.3
5°	743.8	744.4	742.2	737.9	732.5	731.5	729.9	730.4	728.8	725.0	719.1
7.5°	747.1	748.1	745.5	741.1	736.8	736.8	736.3	737.9	736.8	735.2	728.2
10°	746.0	747.6	746.0	744.4	742.8	744.4	743.3	747.1	747.6	747.6	739.5
12.5°	744.4	746.5	747.1	748.7	751.4	753.0	755.1	763.2	767.0	769.7	763.2
15°	746.0	747.1	751.4	754.1	759.4	763.2	768.0	781.5	787.9	795.5	792.2
17.5°	753.0	755.7	762.1	764.8	770.2	772.9	778.8	795.5	808.4	821.8	824.0
20°	768.0	769.7	780.4	781.5	784.2	786.9	793.3	811.6	831.0	850.3	855.7
22.5°	784.7	788.5	798.7	797.1	802.5	803.5	809.5	829.4	856.2	879.9	891.7
25°	801.9	805.2	815.4	816.4	822.9	827.2	834.2	853.6	888.0	918.1	939.1
27.5°	816.4	822.9	832.6	833.7	846.0	851.4	861.6	883.7	925.1	962.2	996.6
30°	843.3	845.0	854.1	857.3	874.0	878.8	890.7	918.6	969.2	1015.5	1069.2
32.5°	876.7	876.1	884.8	890.1	910.6	919.2	934.2	966.5	1022.4	1080.0	1156.4
35°	938.0	932.6	938.0	943.4	967.0	976.2	992.3	1040.7	1106.3	1204.2	1298.4
37.5°	1078.9	1070.8	1059.6	1032.7	1038.6	1050.4	1074.1	1139.7	1236.5	1418.3	1509.2
40°	1323.1	1305.3	1258.0	1187.0	1145.1	1146.1	1168.2	1254.3	1396.2	1663.6	1731.9
42.5°	1544.2	1531.8	1474.8	1377.4	1280.6	1275.2	1282.8	1383.3	1570.5	1891.1	1926.6
45°	1752.3	1758.2	1675.4	1599.0	1483.4	1447.9	1438.7	1521.0	1763.6	2093.8	2097.1
47.5°	1944.8	1954.5	1854.5	1782.4	1668.4	1637.7	1609.2	1665.7	1945.9	2266.5	2240.1
50°	2151.9	2159.4	2020.7	1961.5	1865.8	1837.3	1815.8	1840.5	2132.6	2426.8	2367.6
52.5°	2438.0	2396.1	2221.8	2123.9	2039.0	2036.8	2020.1	2035.7	2345.0	2570.9	2464.4
55°	2775.8	2666.1	2481.1	2324.6	2215.4	2221.3	2201.4	2227.2	2555.3	2694.6	2554.2
57.5°	2895.2	2892.5	2806.5	2656.4	2434.8	2421.4	2387.0	2416.0	2737.1	2810.2	2617.7
60°	3060.9	3075.4	3085.1	2994.7	2866.7	2744.6	2629.5	2626.8	2906.5	2915.7	2648.9
62.5°	3167.9	3181.3	3256.6	3244.8	3323.9	3283.5	3152.3	2861.3	3036.1	2984.0	2660.7
65°	2967.8	3001.2	3191.0	3335.7	3605.2	3661.6	3642.8	3221.7	3124.3	3003.9	2638.7
67.5°	2605.9	2649.4	2857.6	3195.9	3779.4	3842.4	3807.9	3584.7	3162.5	2995.3	2577.9
68°	2538.1	2575.7	2780.1	3149.1	3797.2	3852.0	3820.8	3611.6	3164.1	2994.2	2554.8
70°	2212.2	2242.8	2442.4	2909.2	3747.7	3798.8	3794.5	3636.9	3150.2	2960.8	2399.3
72.5°	1716.3	1746.9	1923.9	2412.8	3519.1	3612.7	3608.9	3535.8	3124.3	2790.9	2011.5
75°	1240.8	1274.7	1436.0	1853.9	3045.3	3251.3	3292.7	3362.6	2856.0	2348.8	1431.2
77.5°	896.0	920.8	1060.1	1400.5	2487.5	2723.1	2807.0	2877.5	2337.5	1712.0	680.9
80°	597.5	615.3	749.8	1041.3	1873.8	2012.6	2103.0	1985.2	1330.1	619.1	73.7
82.5°	367.9	379.2	485.1	730.4	1296.2	1339.8	1340.3	1059.0	428.7	59.2	39.8
85°	197.4	201.2	263.5	398.5	684.7	717.5	704.6	444.8	86.6	31.7	21.5
87.5°	31.7	34.4	82.8	149.5	211.4	163.0	104.3	32.8	8.6	4.8	3.2
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°	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7
2.5°	711.0	709.4	705.1	703.0	697.6	699.2	699.2	694.9	697.0	705.7	704.6
5°	717.5	718.0	707.8	702.4	690.6	687.4	682.5	676.1	675.5	681.4	682.0
7.5°	722.9	725.6	711.0	700.3	684.1	672.8	663.2	651.9	649.2	652.9	652.9
10°	731.5	734.2	715.9	700.8	677.1	658.9	642.2	627.7	621.7	621.7	622.3
12.5°	754.1	752.4	731.5	708.3	680.4	651.3	625.0	605.6	591.6	591.1	588.9
15°	785.3	779.3	758.9	723.9	687.9	650.8	614.2	584.1	559.9	553.4	550.8
17.5°	818.6	811.1	786.3	743.8	699.7	650.3	601.8	559.9	519.6	504.0	499.1
20°	854.6	845.5	820.2	767.0	711.6	646.5	583.6	524.9	470.1	440.5	433.0
22.5°	894.4	886.9	856.2	790.6	719.6	638.4	555.1	480.8	410.9	368.4	365.2
25°	946.1	939.1	893.9	811.6	720.2	623.4	517.4	424.4	336.7	286.7	276.5
27.5°	1007.9	995.5	924.0	824.5	711.6	597.0	468.5	349.1	250.1	208.1	207.1
30°	1075.2	1052.6	948.2	827.7	692.2	555.1	401.2	256.6	177.5	149.0	149.0
32.5°	1154.2	1112.8	973.0	822.4	660.5	497.0	307.1	178.0	122.1	108.6	108.6
35°	1269.9	1205.8	1004.7	808.9	615.8	416.8	218.4	117.8	96.3	94.7	94.7
37.5°	1452.7	1346.2	1047.7	786.3	554.5	317.9	142.0	90.9	92.0	92.0	91.4
40°	1647.4	1508.7	1106.9	750.3	477.6	219.4	93.0	86.1	87.7	88.7	88.2
42.5°	1823.3	1663.0	1171.4	701.9	386.7	138.2	85.0	82.8	81.8	82.8	83.4
45°	1975.5	1796.9	1236.5	639.0	285.6	90.4	82.8	78.0	74.8	75.3	75.8
47.5°	2105.7	1902.4	1280.6	572.8	189.3	80.1	80.1	71.5	68.3	68.3	68.3
50°	2219.7	1995.9	1307.5	493.7	112.9	79.1	75.3	65.6	62.4	61.9	62.4
52.5°	2302.5	2061.6	1304.3	397.5	75.8	76.4	68.8	60.2	56.5	57.5	58.1
55°	2368.1	2103.0	1275.8	291.0	71.0	71.5	64.0	54.3	51.6	52.2	52.2
57.5°	2409.5	2113.2	1217.7	189.3	69.4	64.0	57.5	48.4	45.2	45.2	45.2
60°	2423.0	2107.8	1138.6	121.0	68.8	57.5	52.2	43.6	40.3	40.3	40.3
62.5°	2411.7	2076.6	1004.7	87.1	64.0	53.8	47.3	38.7	35.5	34.4	34.4
65°	2371.4	1993.3	774.5	72.1	57.5	49.5	43.0	35.0	30.7	29.0	28.5
67.5°	2253.6	1812.5	450.7	67.8	52.2	45.2	39.8	31.7	26.9	24.2	23.7
68°	2222.9	1758.8	370.6	67.2	52.2	44.6	39.3	30.7	25.8	23.1	22.6
70°	2003.5	1418.8	106.5	64.0	51.1	43.0	36.0	28.0	23.1	19.9	19.4
72.5°	1508.7	831.5	66.7	57.0	50.6	38.2	35.0	28.0	20.4	17.2	16.1
75°	842.3	189.3	56.5	42.5	47.3	37.6	34.4	25.3	18.3	14.0	13.4
77.5°	173.2	54.9	48.4	29.6	36.0	32.8	29.0	21.5	16.7	10.8	10.2
80°	48.9	40.9	43.0	21.5	20.4	23.1	21.5	18.8	12.4	8.1	8.1
82.5°	31.7	30.1	38.7	14.5	10.8	10.8	14.0	11.3	10.8	6.5	6.5
85°	19.4	25.3	18.8	6.5	5.4	4.3	4.8	4.8	6.5	4.3	4.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.2	1.6	1.6	1.6	2.2	2.2
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)