

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: McGRAW-EDISON

Report Number: P191860

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-SL2-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11066 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 129  
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: 25 FT

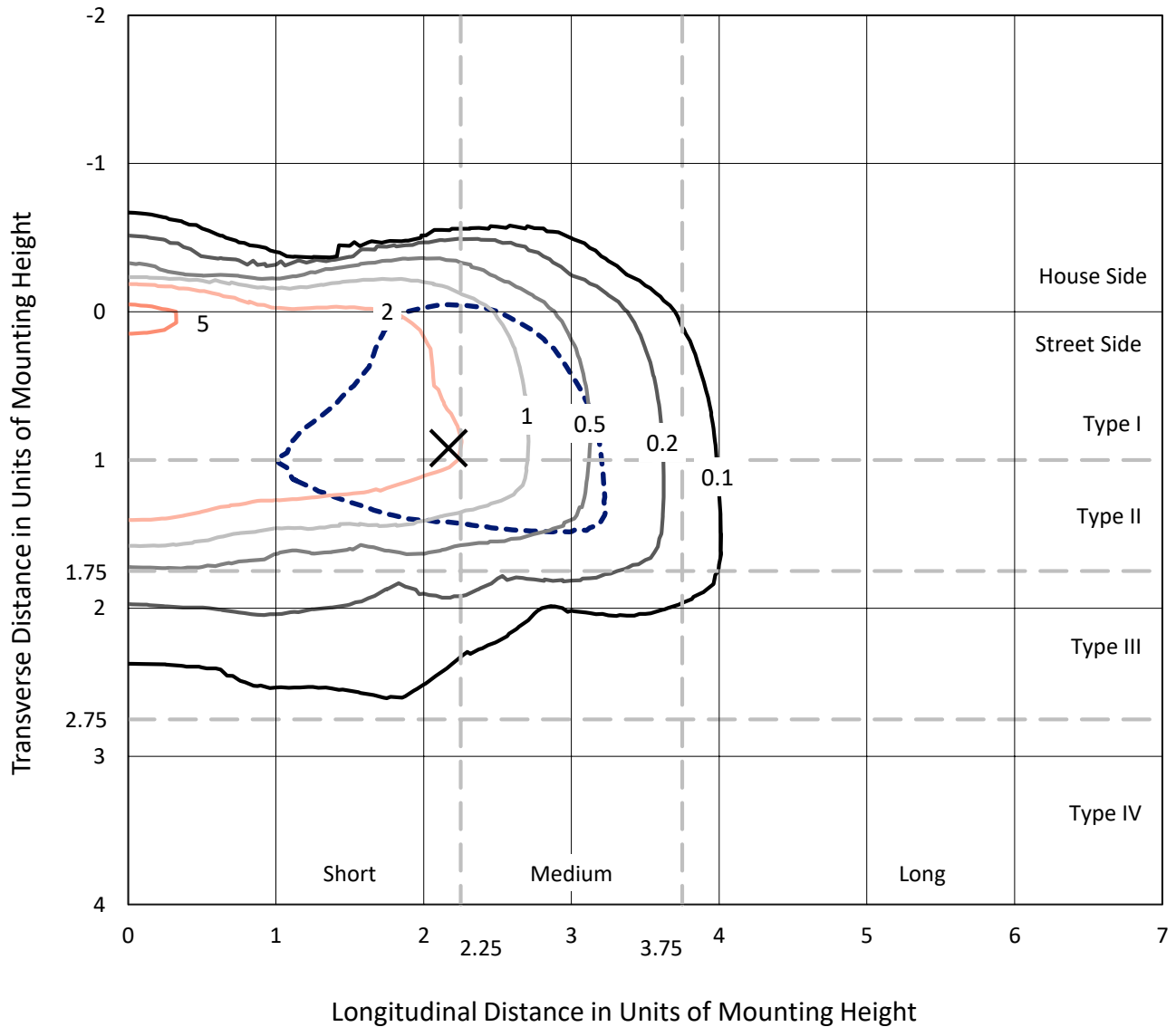


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### Iso-Footcandle Lines of Horizontal Illumination

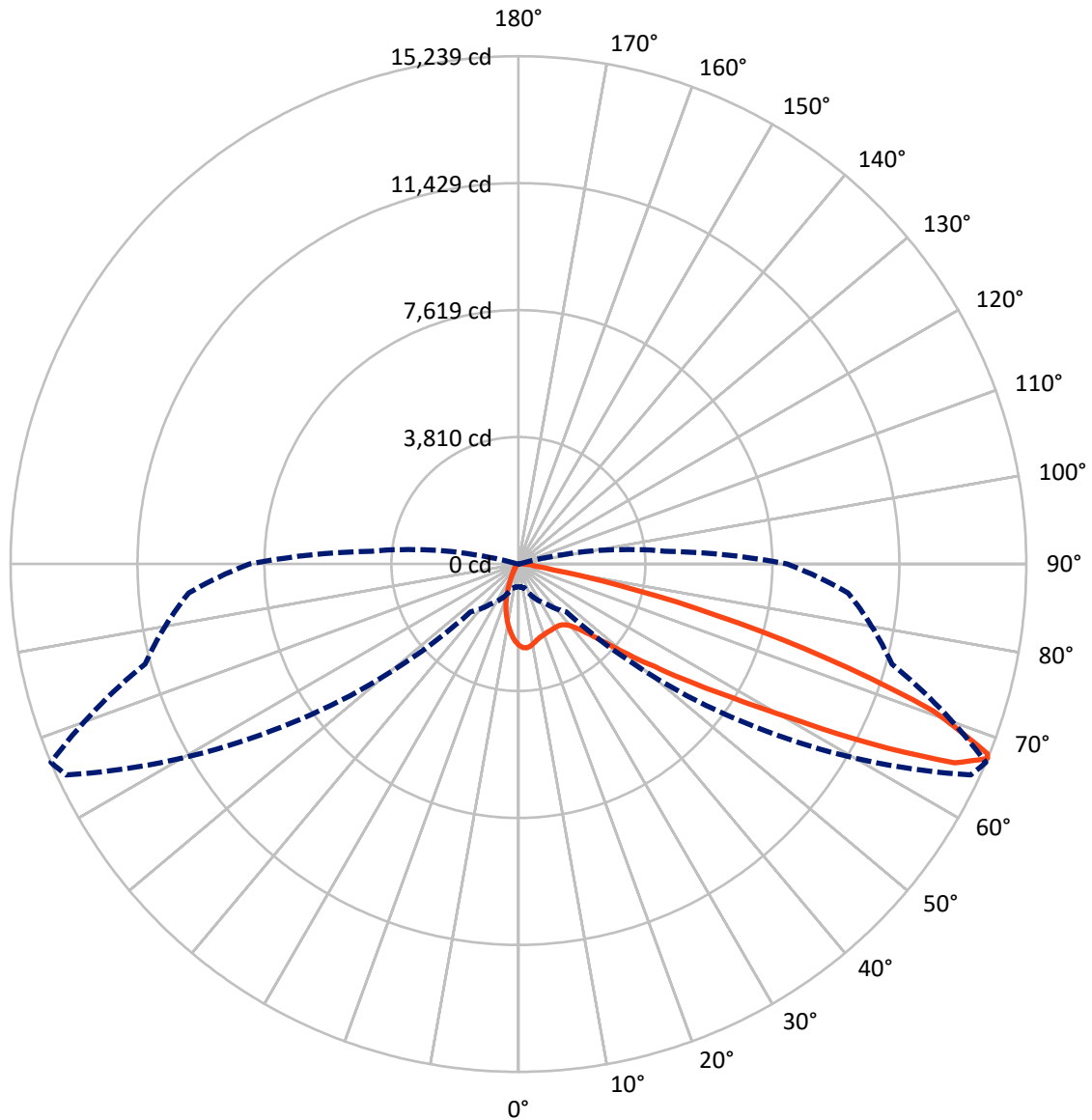
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1149.0	0.0	1149.0
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	9917.0	0.0	9917.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	11066.0	0.0	11066.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	1.8
10°-20°	422.6	3.8
20°-30°	614.5	5.6
30°-40°	958.6	8.7
40°-50°	1698.2	15.3
50°-60°	2687.2	24.3
60°-70°	3077.8	27.8
70°-80°	1276.6	11.5
80°-90°	131.9	1.2
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°	11066.0	100.0
0°-180°	11066.0	100.0

**Coefficient of Utilization**



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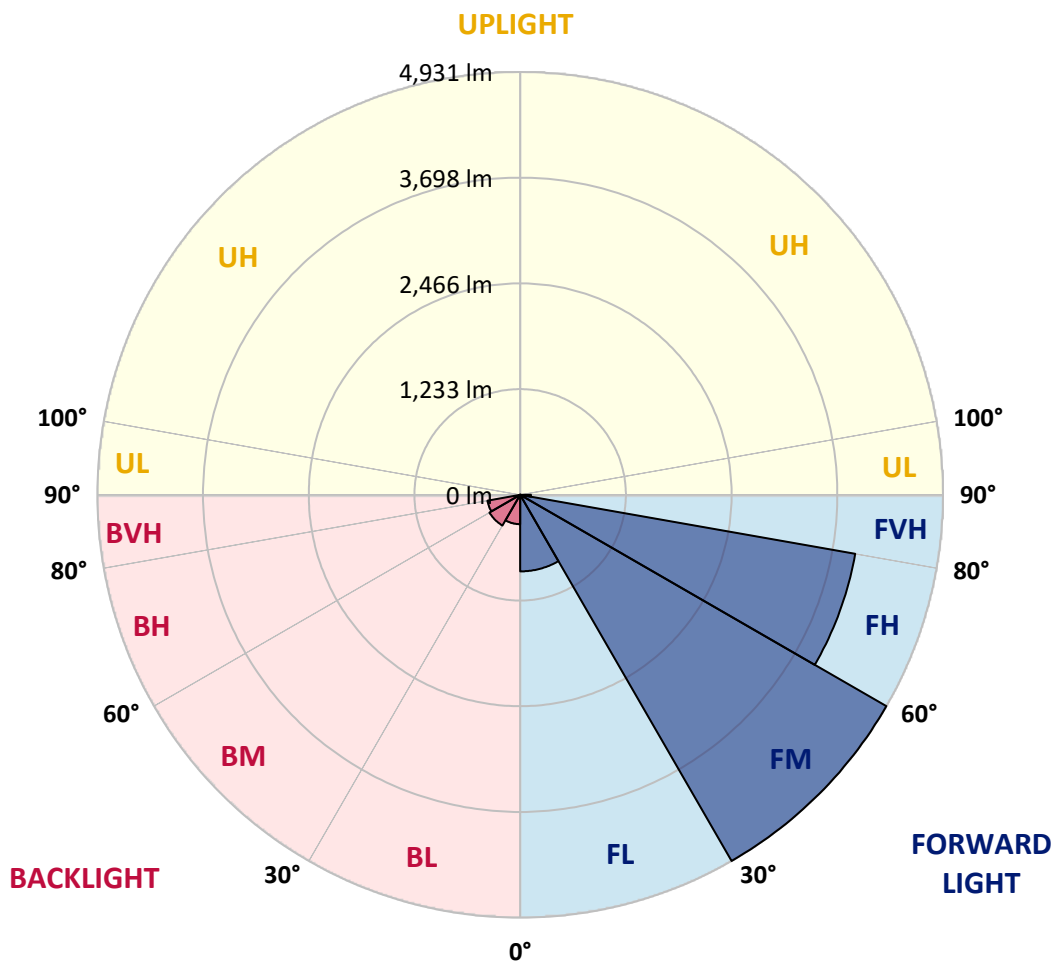
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.9	8.1			
FM (30°-60°)	4931.0	44.6			
FH (60°-80°)	3967.2	35.9			G2/5000
FVH (80°-90°)	125.9	1.1			G2/225
BL (0°-30°)	342.9	3.1	B1/500		
BM (30°-60°)	412.9	3.7	B1/1000		
BH (60°-80°)	387.3	3.5	B1/500		G1/500
BVH (80°-90°)	5.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5
2.5°	2523.1	2528.2	2527.6	2531.5	2540.5	2541.2	2532.1	2514.7	2510.8	2488.2	2448.9
5°	2326.9	2341.7	2350.7	2387.5	2428.8	2478.5	2516.0	2529.5	2527.6	2511.5	2452.1
7.5°	2102.9	2117.7	2128.1	2171.3	2226.2	2311.4	2408.8	2488.9	2496.0	2513.4	2449.5
10°	1953.8	1956.4	1970.6	2011.9	2069.3	2156.5	2272.6	2412.7	2434.0	2497.9	2443.0
12.5°	1831.2	1833.1	1851.8	1896.3	1957.7	2045.4	2167.4	2329.4	2362.4	2478.5	2441.8
15°	1744.0	1751.1	1767.9	1814.4	1879.6	1966.7	2091.9	2268.1	2307.5	2471.4	2453.4
17.5°	1715.0	1722.7	1727.9	1761.4	1820.8	1906.0	2034.5	2228.1	2272.6	2475.3	2476.0
20°	1745.3	1751.1	1739.5	1747.9	1784.7	1860.8	1986.1	2193.9	2246.8	2479.8	2505.0
22.5°	1858.3	1860.8	1829.2	1792.4	1786.0	1827.9	1948.0	2166.8	2223.6	2492.1	2539.2
25°	2051.9	2047.4	1995.7	1916.4	1841.5	1822.1	1925.4	2150.0	2212.0	2505.0	2574.7
27.5°	2285.6	2292.0	2221.0	2105.5	1962.8	1860.8	1922.2	2142.9	2206.8	2514.0	2605.7
30°	2569.6	2578.6	2497.3	2352.0	2147.4	1956.4	1951.9	2141.6	2203.6	2508.2	2608.3
32.5°	2859.4	2870.3	2806.4	2656.7	2394.0	2116.4	2019.0	2155.8	2210.0	2488.2	2593.4
35°	3162.7	3178.2	3135.6	3007.2	2728.3	2347.5	2137.1	2199.1	2240.4	2486.3	2578.6
37.5°	3581.6	3595.8	3515.8	3379.6	3133.0	2657.3	2326.9	2280.4	2312.0	2517.3	2582.5
40°	4207.1	4205.1	3998.6	3790.1	3577.8	3051.1	2593.4	2427.6	2443.7	2610.9	2630.2
42.5°	4888.7	4885.4	4580.1	4263.2	4071.5	3535.8	2943.9	2681.9	2670.9	2783.2	2754.2
45°	5414.1	5413.4	5164.3	4807.3	4666.0	4092.2	3397.0	3035.6	3018.8	3063.3	2982.6
47.5°	5638.0	5641.9	5516.7	5265.6	5325.0	4844.8	3968.3	3548.1	3522.9	3504.8	3382.2
50°	5463.8	5471.5	5481.8	5432.8	5808.4	5856.2	4734.4	4270.3	4258.1	4177.4	3985.7
52.5°	4894.5	4933.9	5055.2	5210.8	5976.3	6827.0	5935.6	5167.5	5101.7	5015.8	4804.8
55°	3935.3	3978.6	4209.0	4586.6	5726.5	7464.7	7618.9	6324.2	6214.4	5958.2	5653.5
57.5°	2604.4	2671.5	3005.9	3486.1	5001.0	7567.3	9298.4	7929.4	7547.3	6845.7	6502.3
60°	1434.8	1499.4	1862.1	2297.2	3612.0	7060.0	10428.0	10019.4	9344.2	7837.7	7533.1
62.5°	883.6	918.5	1186.3	1591.0	2166.1	5572.2	10661.6	12645.7	11864.1	9115.1	8778.2
65°	703.5	718.4	849.4	1300.6	1553.0	3314.4	9907.1	14647.9	14387.2	10661.6	9892.9
67°	682.9	688.7	750.7	1116.6	1463.9	2031.9	8299.9	14973.9	15238.5	11597.5	9927.7
67.5°	687.4	693.9	752.6	1065.6	1461.3	1867.3	7746.1	14845.4	15179.8	11671.7	9773.5
70°	662.9	682.9	861.7	1065.0	1389.7	1551.7	4638.9	12862.6	13210.5	10844.9	8292.8
72.5°	234.9	236.2	372.4	861.7	1511.0	1568.5	2329.4	9429.4	9687.0	8296.0	5978.8
75°	139.4	118.8	123.9	245.3	1443.9	1523.3	1343.8	6025.3	6121.5	4753.8	3027.8
77.5°	96.2	83.9	86.5	108.4	549.9	1502.0	1067.6	3142.1	3039.4	1667.2	644.8
80°	54.9	48.4	51.6	94.9	200.1	1401.3	1006.9	1274.1	1086.3	282.7	178.1
82.5°	29.0	24.5	29.7	78.1	139.4	873.3	1008.8	615.8	488.0	95.5	121.3
85°	10.3	8.4	14.2	53.6	92.9	267.9	935.3	517.7	406.6	46.5	92.3
87.5°	1.9	1.9	5.8	21.9	37.4	82.0	553.2	307.2	205.9	27.8	63.3
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°	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5
2.5°	2432.7	2405.0	2367.5	2321.7	2267.5	2219.7	2184.2	2147.4	2139.7	2126.8	2124.8
5°	2416.6	2368.8	2275.9	2169.4	2055.8	1953.1	1869.9	1795.7	1762.7	1734.3	1731.1
7.5°	2392.7	2321.1	2162.9	1991.2	1813.7	1652.4	1515.5	1418.7	1329.6	1287.0	1280.6
10°	2364.9	2262.3	2035.8	1797.6	1552.3	1324.5	1121.2	950.8	847.5	786.2	778.4
12.5°	2339.1	2204.9	1906.0	1596.9	1270.9	966.2	704.8	542.2	433.7	389.9	384.7
15°	2326.9	2158.4	1784.7	1391.6	976.6	615.1	385.3	298.2	262.7	252.4	251.7
17.5°	2325.6	2119.0	1665.9	1179.2	684.2	357.6	251.1	229.1	222.0	219.5	219.5
20°	2324.9	2081.6	1547.2	959.1	434.4	238.2	209.1	204.0	198.8	195.6	195.6
22.5°	2332.0	2048.0	1423.2	734.5	273.7	193.0	184.0	178.8	172.3	167.8	167.2
25°	2339.1	2022.2	1296.7	522.8	198.2	167.8	158.8	151.7	142.6	136.8	136.2
27.5°	2340.4	1989.9	1161.2	349.8	165.9	146.5	134.9	123.9	113.6	107.8	107.1
30°	2321.1	1935.7	1010.8	236.2	146.5	127.2	111.7	100.0	90.4	85.8	85.8
32.5°	2283.0	1868.6	845.5	178.1	130.4	109.1	92.3	81.3	74.9	72.9	72.3
35°	2248.8	1796.3	675.8	151.0	116.8	92.3	75.5	68.4	64.5	63.9	63.3
37.5°	2228.8	1738.2	516.4	136.8	103.9	77.5	63.9	58.7	56.8	55.5	56.2
40°	2244.2	1689.8	381.5	125.2	91.0	64.5	54.2	51.6	49.7	49.1	49.1
42.5°	2312.0	1681.4	283.4	114.9	78.7	53.6	47.1	45.2	43.9	43.2	43.9
45°	2490.2	1733.0	220.1	105.2	66.5	45.2	40.0	39.4	38.7	38.7	38.7
47.5°	2758.0	1839.5	183.3	94.2	55.5	38.7	34.9	34.2	33.6	34.2	34.2
50°	3211.8	2034.5	163.9	83.3	45.8	32.9	29.7	29.7	29.7	29.7	30.3
52.5°	3901.8	2417.9	151.0	72.3	37.4	27.8	25.2	25.2	25.8	25.8	26.5
55°	4670.5	2926.5	139.4	61.3	31.6	23.2	20.7	21.3	21.9	22.6	22.6
57.5°	5504.4	3490.0	129.7	50.3	27.1	18.7	17.4	18.1	18.7	20.0	20.0
60°	6510.7	4099.9	115.5	39.4	22.6	14.8	13.6	14.8	16.8	18.1	18.7
62.5°	7615.7	4689.9	97.5	31.0	18.7	11.6	11.0	13.6	16.1	17.4	18.1
65°	8370.9	4875.1	74.9	25.2	14.2	8.4	9.0	12.3	15.5	17.4	17.4
67°	8064.9	4420.1	61.3	21.3	11.6	6.5	8.4	12.3	15.5	16.8	17.4
67.5°	7852.6	4241.9	58.7	20.7	11.0	6.5	8.4	12.3	15.5	17.4	17.4
70°	6389.3	3186.6	49.1	15.5	9.0	5.8	7.1	11.6	14.8	16.8	16.8
72.5°	4439.4	1964.8	43.9	11.0	7.7	5.2	6.5	11.0	14.2	16.1	16.8
75°	2110.6	711.3	37.4	8.4	7.1	4.5	5.8	11.0	14.2	16.1	16.1
77.5°	430.5	165.2	30.3	7.1	5.8	4.5	5.2	10.3	13.6	15.5	15.5
80°	141.4	63.9	22.6	6.5	5.8	4.5	5.2	9.7	13.6	14.8	15.5
82.5°	102.0	32.3	14.8	6.5	5.8	4.5	4.5	9.7	12.9	14.8	14.8
85°	78.1	22.6	9.7	6.5	5.8	4.5	4.5	9.0	12.3	14.2	14.2
87.5°	51.6	9.0	7.7	6.5	5.8	4.5	4.5	9.0	11.6	13.6	14.2
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)