

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: P200274

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200274  
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: GPC-AF-02-LED-E1-SL2-7050-1200-HSS  
Description: GALLEON PEDESTRIAN 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: 11287 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

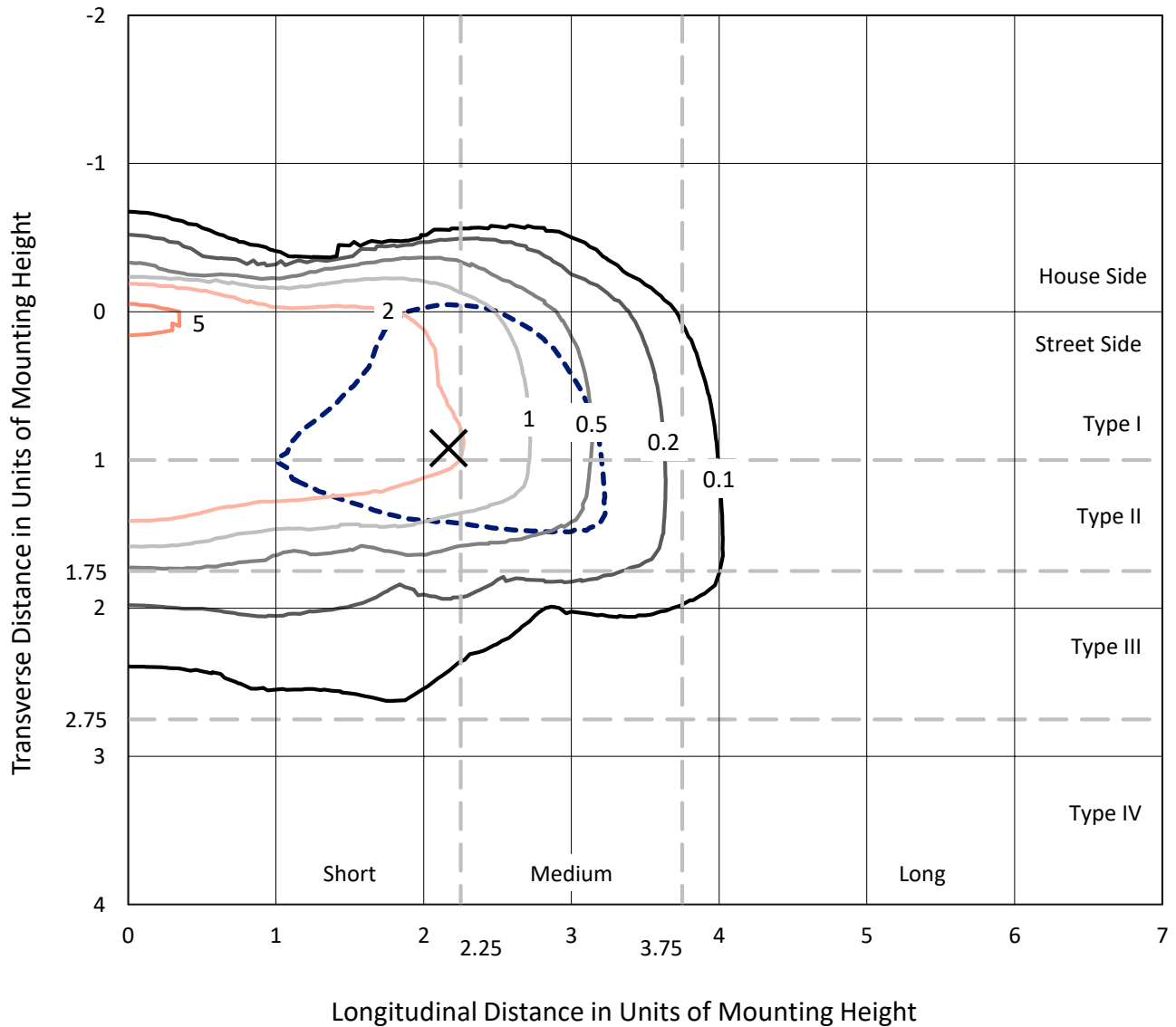


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

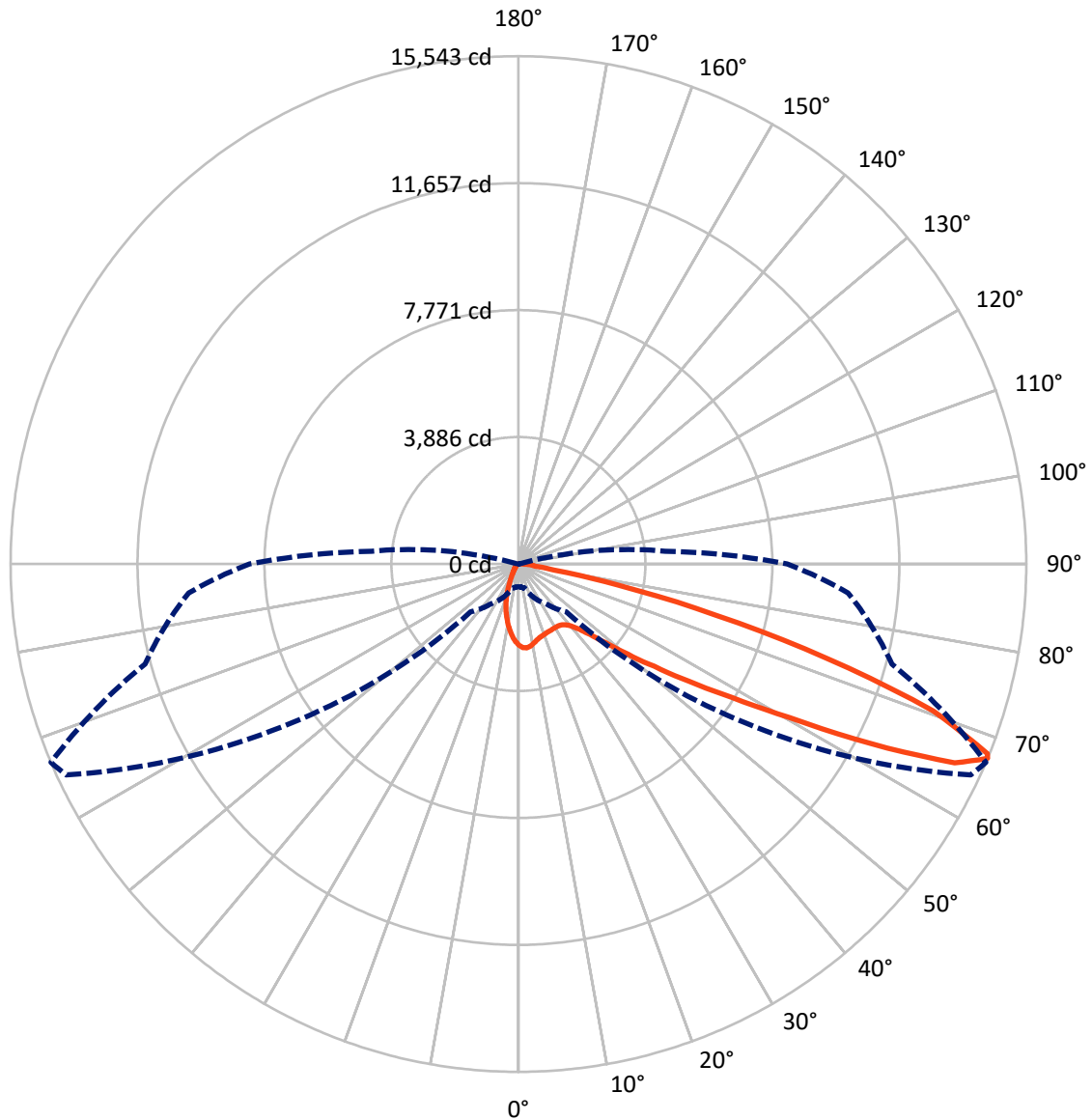


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - Semi-Cutoff

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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	1171.9	0.0	1171.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	10115.1	0.0	10115.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	11287.0	0.0	11287.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	1.8
10°-20°	431.1	3.8
20°-30°	626.8	5.6
30°-40°	977.8	8.7
40°-50°	1732.1	15.3
50°-60°	2740.8	24.3
60°-70°	3139.3	27.8
70°-80°	1302.1	11.5
80°-90°	134.5	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°	11287.0	100.0
0°-180°	11287.0	100.0



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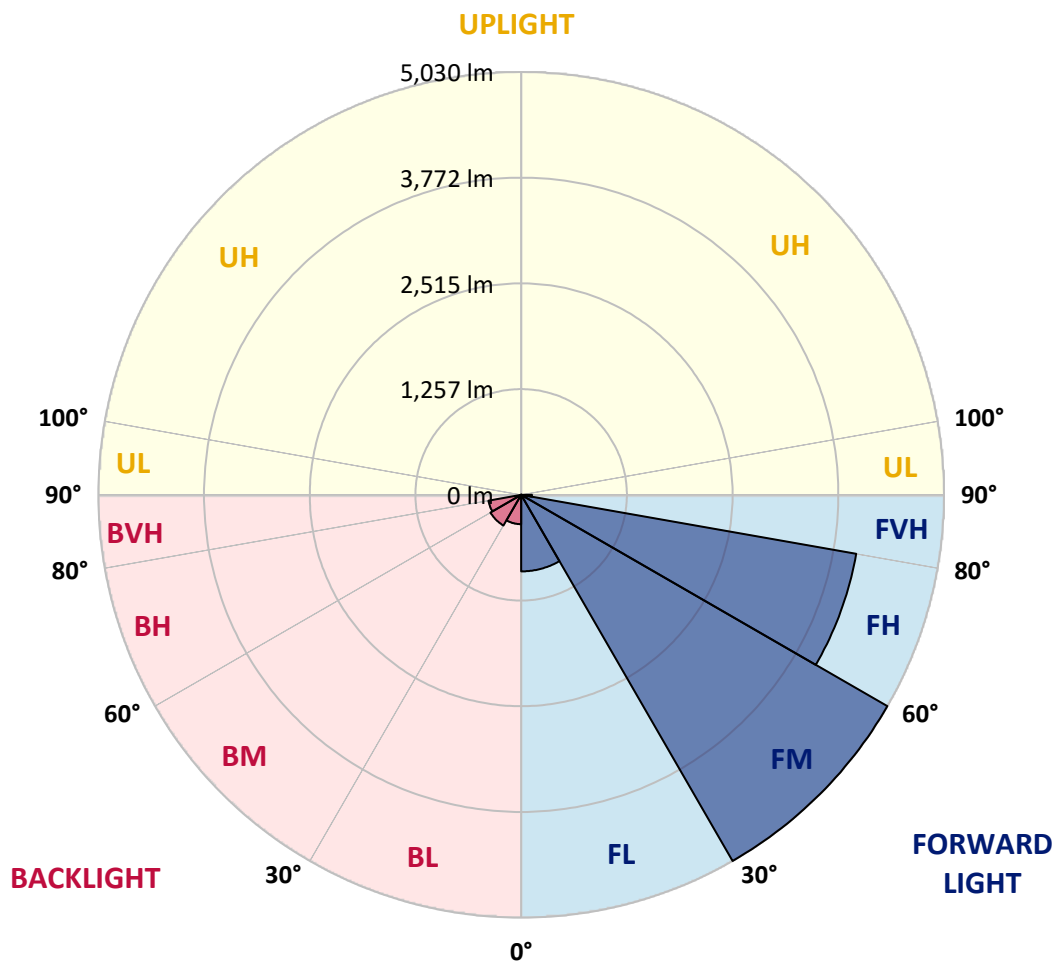
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.7	8.1			
FM (30°-60°)	5029.5	44.6			
FH (60°-80°)	4046.4	35.9			G2/5000
FVH (80°-90°)	128.4	1.1			G2/225
BL (0°-30°)	349.7	3.1	B1/500		
BM (30°-60°)	421.2	3.7	B1/1000		
BH (60°-80°)	395.0	3.5	B1/500		G1/500
BVH (80°-90°)	6.1	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°	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2
2.5°	2573.5	2578.7	2578.1	2582.0	2591.2	2591.9	2582.7	2564.9	2561.0	2537.9	2497.8
5°	2373.3	2388.5	2397.7	2435.2	2477.4	2528.0	2566.2	2580.1	2578.1	2561.6	2501.1
7.5°	2144.9	2160.0	2170.6	2214.7	2270.6	2357.5	2456.9	2538.6	2545.8	2563.6	2498.4
10°	1992.8	1995.4	2009.9	2052.1	2110.7	2199.5	2318.0	2460.9	2482.6	2547.8	2491.8
12.5°	1867.7	1869.7	1888.8	1934.2	1996.8	2086.3	2210.7	2376.0	2409.5	2528.0	2490.5
15°	1778.8	1786.1	1803.2	1850.6	1917.1	2006.0	2133.7	2313.4	2353.6	2520.8	2502.4
17.5°	1749.2	1757.1	1762.4	1796.6	1857.2	1944.1	2075.1	2272.6	2318.0	2524.8	2525.4
20°	1780.2	1786.1	1774.2	1782.8	1820.3	1898.0	2025.7	2237.7	2291.7	2529.4	2555.0
22.5°	1895.4	1898.0	1865.7	1828.2	1821.6	1864.4	1986.9	2210.1	2268.0	2541.9	2589.9
25°	2092.9	2088.3	2035.6	1954.6	1878.3	1858.5	1963.8	2192.9	2256.1	2555.0	2626.1
27.5°	2331.2	2337.8	2265.4	2147.5	2002.0	1898.0	1960.5	2185.7	2250.9	2564.3	2657.7
30°	2620.9	2630.1	2547.1	2399.0	2190.3	1995.4	1990.8	2184.4	2247.6	2558.3	2660.4
32.5°	2916.5	2927.7	2862.5	2709.7	2441.8	2158.7	2059.3	2198.9	2254.2	2537.9	2645.2
35°	3225.9	3241.7	3198.2	3067.2	2782.8	2394.4	2179.8	2243.0	2285.1	2535.9	2630.1
37.5°	3653.2	3667.6	3586.0	3447.1	3195.6	2710.4	2373.3	2325.9	2358.2	2567.5	2634.0
40°	4291.1	4289.1	4078.4	3865.8	3649.2	3112.0	2645.2	2476.0	2492.5	2663.0	2682.8
42.5°	4986.3	4983.0	4671.6	4348.4	4152.8	3606.4	3002.7	2735.4	2724.2	2838.8	2809.2
45°	5522.2	5521.5	5267.4	4903.3	4759.2	4173.9	3464.9	3096.2	3079.1	3124.5	3042.2
47.5°	5750.6	5754.6	5626.9	5370.8	5431.3	4941.5	4047.5	3618.9	3593.2	3574.8	3449.7
50°	5572.9	5580.8	5591.3	5541.3	5924.4	5973.2	4829.0	4355.6	4343.1	4260.8	4065.3
52.5°	4992.2	5032.4	5156.2	5314.8	6095.6	6963.3	6054.1	5270.7	5203.6	5116.0	4900.7
55°	4013.9	4058.0	4293.1	4678.2	5840.8	7613.8	7771.1	6450.5	6338.5	6077.2	5766.4
57.5°	2656.4	2724.9	3065.9	3555.7	5100.9	7718.4	9484.1	8087.8	7698.0	6982.4	6632.2
60°	1463.5	1529.3	1899.3	2343.0	3684.1	7201.0	10636.2	10219.5	9530.9	7994.3	7683.5
62.5°	901.3	936.8	1210.0	1622.8	2209.4	5683.5	10874.5	12898.3	12101.0	9297.1	8953.5
65°	717.6	732.7	866.4	1326.6	1584.0	3380.6	10104.9	14940.5	14674.5	10874.5	10090.4
67°	696.5	702.5	765.7	1138.9	1493.1	2072.5	8465.7	15272.9	15542.9	11829.1	10126.0
67.5°	701.1	707.7	767.6	1086.9	1490.5	1904.6	7900.8	15141.9	15482.9	11904.8	9968.7
70°	676.1	696.5	878.9	1086.3	1417.4	1582.7	4731.5	13119.5	13474.3	11061.5	8458.4
72.5°	239.6	241.0	379.9	878.9	1541.2	1599.8	2376.0	9617.8	9880.4	8461.7	6098.2
75°	142.2	121.1	126.4	250.2	1472.7	1553.7	1370.7	6145.6	6243.7	4848.7	3088.3
77.5°	98.1	85.6	88.2	110.6	560.9	1532.0	1088.9	3204.8	3100.1	1700.5	657.7
80°	56.0	49.4	52.7	96.8	204.1	1429.3	1027.0	1299.6	1108.0	288.4	181.7
82.5°	29.6	25.0	30.3	79.7	142.2	890.7	1029.0	628.1	497.7	97.4	123.8
85°	10.5	8.6	14.5	54.6	94.8	273.2	953.9	528.0	414.8	47.4	94.1
87.5°	2.0	2.0	5.9	22.4	38.2	83.6	564.2	313.4	210.0	28.3	64.5
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°	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2
2.5°	2481.3	2453.0	2414.8	2368.1	2312.8	2264.0	2227.8	2190.3	2182.4	2169.2	2167.3
5°	2464.8	2416.1	2321.3	2212.7	2096.8	1992.2	1907.2	1831.5	1797.9	1769.0	1765.7
7.5°	2440.5	2367.4	2206.1	2031.0	1849.9	1685.4	1545.8	1447.0	1356.2	1312.7	1306.2
10°	2412.2	2307.5	2076.4	1833.5	1583.3	1350.9	1143.5	969.7	864.4	801.9	794.0
12.5°	2385.8	2248.9	1944.1	1628.7	1296.3	985.5	718.9	553.0	442.4	397.6	392.4
15°	2373.3	2201.5	1820.3	1419.4	996.1	627.4	393.0	304.2	267.9	257.4	256.8
17.5°	2372.0	2161.3	1699.2	1202.8	697.8	364.7	256.1	233.7	226.5	223.8	223.8
20°	2371.4	2123.2	1578.1	978.3	443.1	242.9	213.3	208.0	202.8	199.5	199.5
22.5°	2378.6	2088.9	1451.6	749.2	279.1	196.8	187.6	182.4	175.8	171.2	170.5
25°	2385.8	2062.6	1322.6	533.3	202.1	171.2	162.0	154.7	145.5	139.6	138.9
27.5°	2387.2	2029.7	1184.4	356.8	169.2	149.4	137.6	126.4	115.9	109.9	109.3
30°	2367.4	1974.4	1031.0	241.0	149.4	129.7	113.9	102.0	92.2	87.6	87.6
32.5°	2328.6	1905.9	862.4	181.7	133.0	111.3	94.1	83.0	76.4	74.4	73.7
35°	2293.7	1832.2	689.3	154.1	119.2	94.1	77.0	69.8	65.8	65.2	64.5
37.5°	2273.3	1772.9	526.7	139.6	106.0	79.0	65.2	59.9	57.9	56.6	57.3
40°	2289.1	1723.5	389.1	127.7	92.8	65.8	55.3	52.7	50.7	50.0	50.0
42.5°	2358.2	1715.0	289.0	117.2	80.3	54.6	48.1	46.1	44.8	44.1	44.8
45°	2539.9	1767.7	224.5	107.3	67.8	46.1	40.8	40.2	39.5	39.5	39.5
47.5°	2813.1	1876.3	187.0	96.1	56.6	39.5	35.6	34.9	34.2	34.9	34.9
50°	3275.9	2075.1	167.2	84.9	46.7	33.6	30.3	30.3	30.3	30.3	30.9
52.5°	3979.7	2466.2	154.1	73.7	38.2	28.3	25.7	25.7	26.3	26.3	27.0
55°	4763.8	2984.9	142.2	62.5	32.3	23.7	21.1	21.7	22.4	23.0	23.0
57.5°	5614.4	3559.7	132.3	51.4	27.7	19.1	17.8	18.4	19.1	20.4	20.4
60°	6640.7	4181.8	117.8	40.2	23.0	15.1	13.8	15.1	17.1	18.4	19.1
62.5°	7767.8	4783.5	99.4	31.6	19.1	11.9	11.2	13.8	16.5	17.8	18.4
65°	8538.1	4972.5	76.4	25.7	14.5	8.6	9.2	12.5	15.8	17.8	17.8
67°	8226.0	4508.3	62.5	21.7	11.9	6.6	8.6	12.5	15.8	17.1	17.8
67.5°	8009.4	4326.6	59.9	21.1	11.2	6.6	8.6	12.5	15.8	17.8	17.8
70°	6517.0	3250.2	50.0	15.8	9.2	5.9	7.2	11.9	15.1	17.1	17.1
72.5°	4528.1	2004.0	44.8	11.2	7.9	5.3	6.6	11.2	14.5	16.5	17.1
75°	2152.8	725.5	38.2	8.6	7.2	4.6	5.9	11.2	14.5	16.5	16.5
77.5°	439.1	168.5	30.9	7.2	5.9	4.6	5.3	10.5	13.8	15.8	15.8
80°	144.2	65.2	23.0	6.6	5.9	4.6	5.3	9.9	13.8	15.1	15.8
82.5°	104.0	32.9	15.1	6.6	5.9	4.6	4.6	9.9	13.2	15.1	15.1
85°	79.7	23.0	9.9	6.6	5.9	4.6	4.6	9.2	12.5	14.5	14.5
87.5°	52.7	9.2	7.9	6.6	5.9	4.6	4.6	9.2	11.9	13.8	14.5
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)