

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: P193751

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL4-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12035 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166  
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

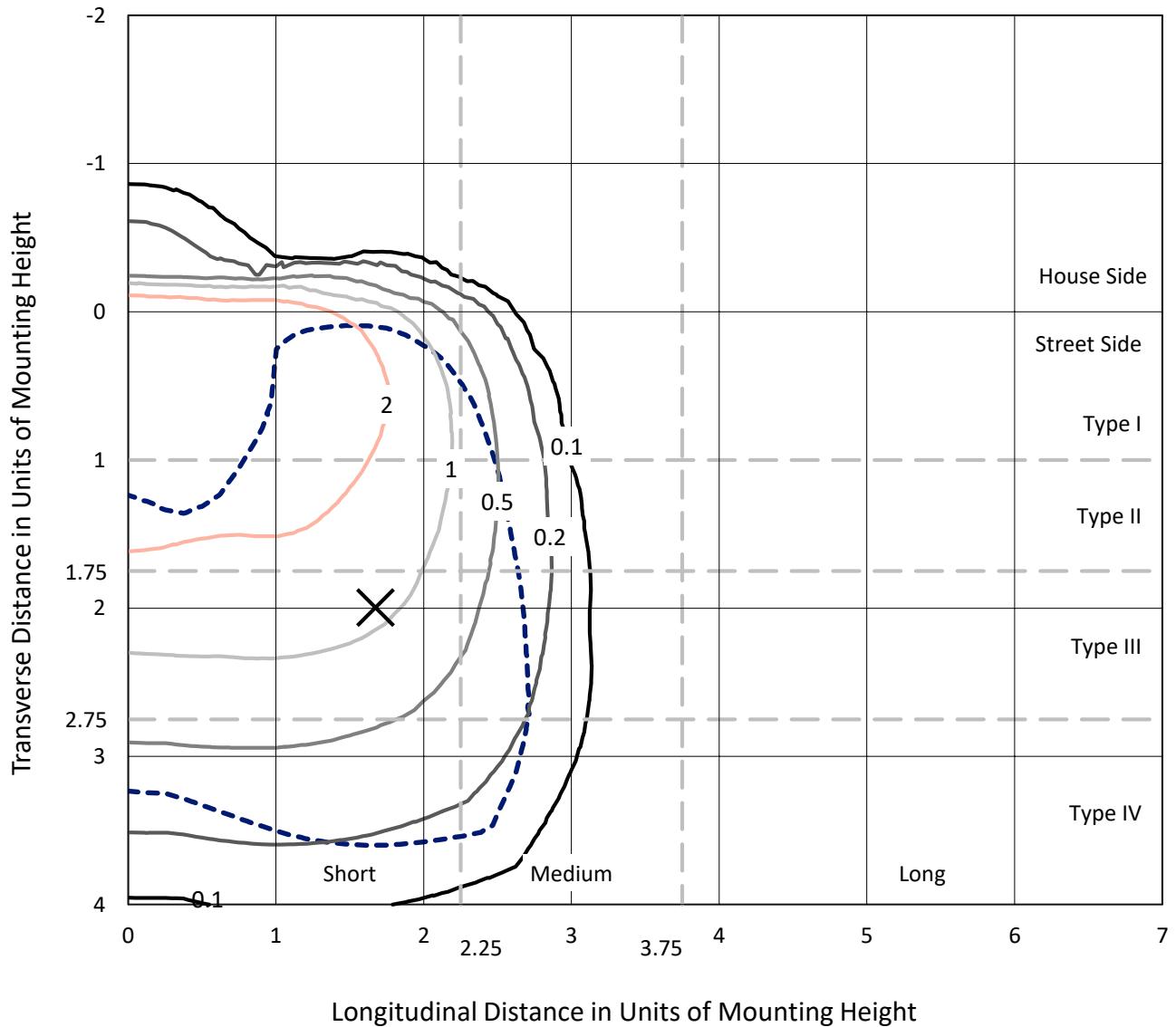


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

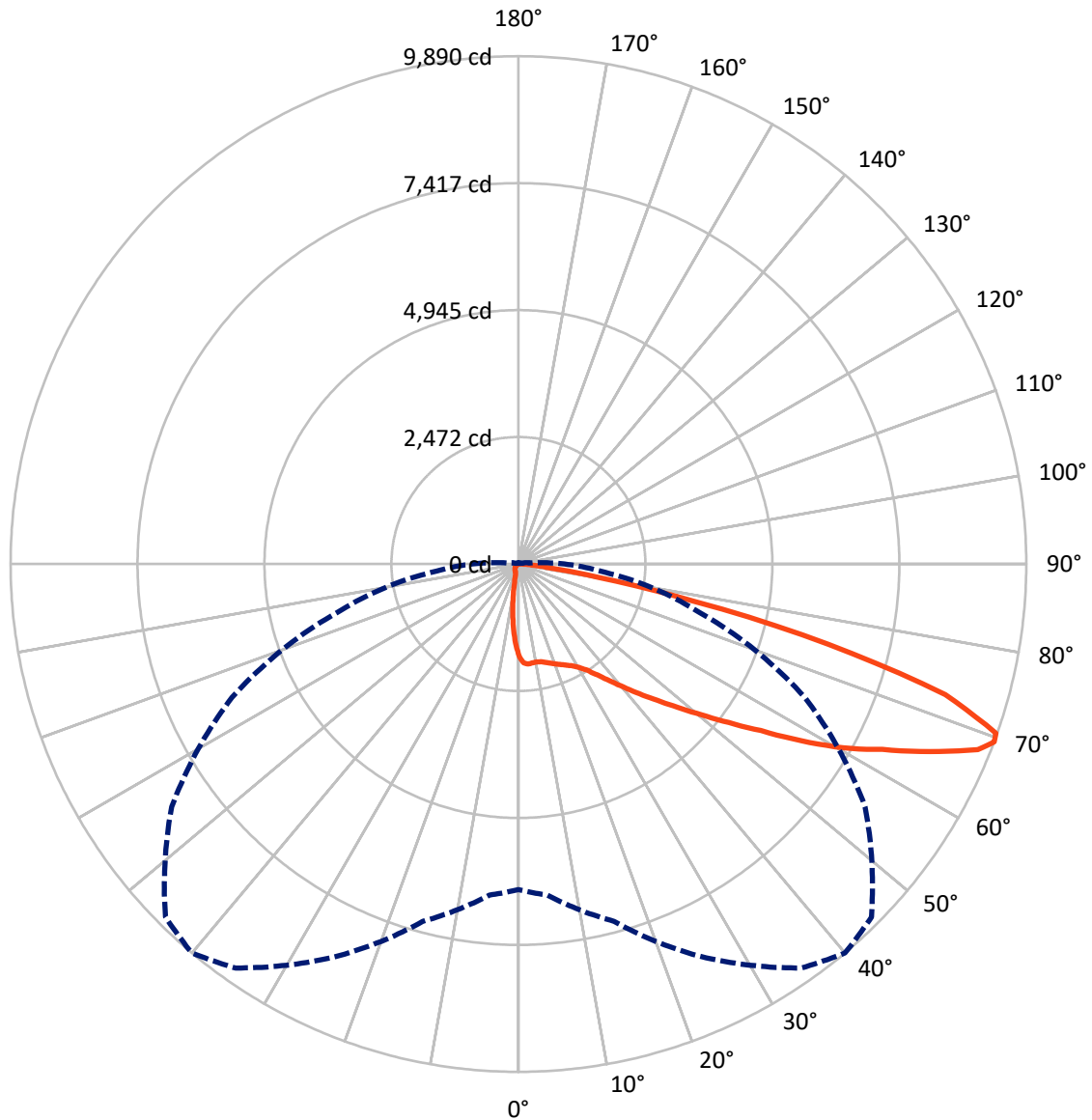


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	704.1	0.0	704.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	11330.9	0.0	11330.9
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	12035.0	0.0	12035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	1.2
10°-20°	358.5	3.0
20°-30°	603.9	5.0
30°-40°	988.6	8.2
40°-50°	1711.7	14.2
50°-60°	2696.1	22.4
60°-70°	3520.9	29.3
70°-80°	1813.4	15.1
80°-90°	196.2	1.6
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°	12035.0	100.0
0°-180°	12035.0	100.0

**Coefficient of Utilization**



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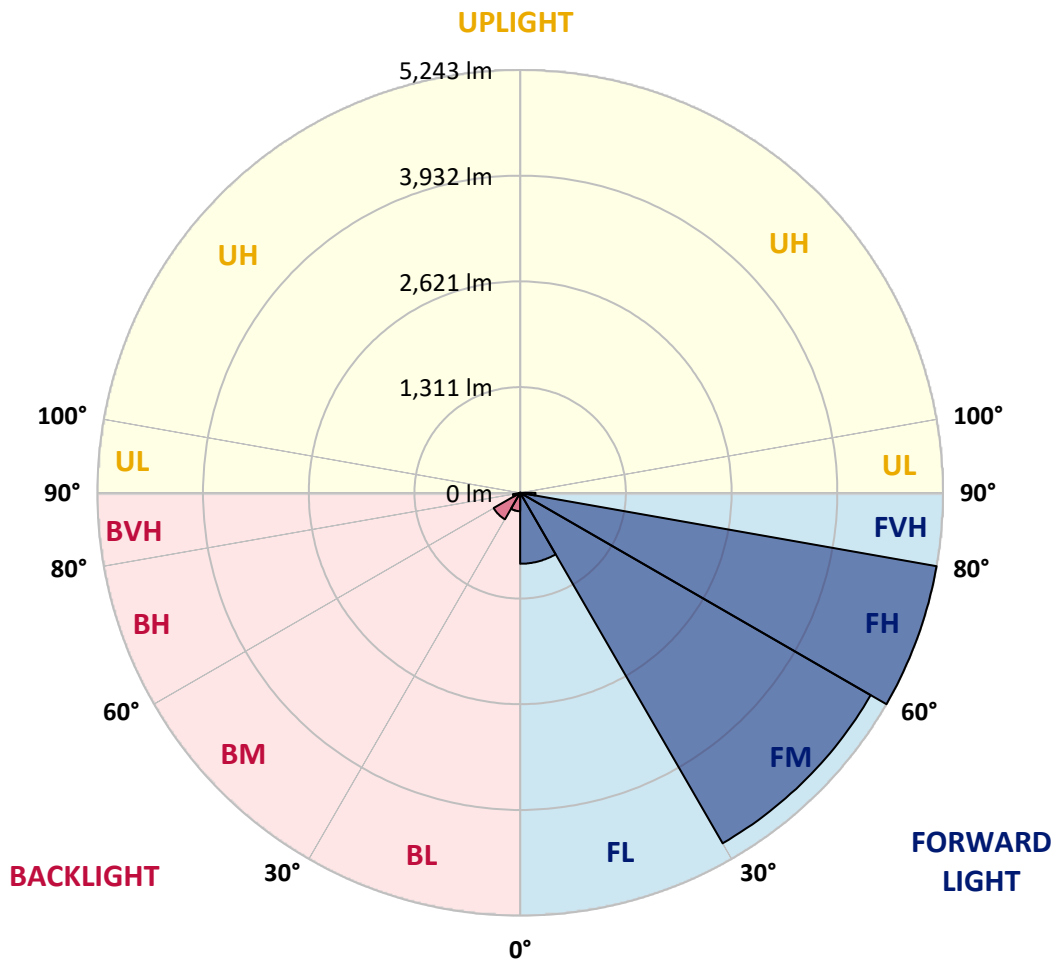
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	880.1	7.3			
FM	(30°-60°)	5017.8	41.7			
FH	(60°-80°)	5242.9	43.6			G3/7500
FVH	(80°-90°)	190.0	1.6			G2/225
BL	(0°-30°)	228.1	1.9	B1/500		
BM	(30°-60°)	378.4	3.1	B1/1000		
BH	(60°-80°)	91.4	0.8	B0/110		G0/110
BVH	(80°-90°)	6.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1974.3	1963.6	1957.1	1948.5	1937.8	1928.5	1924.9	1898.4	1873.3	1838.9	1799.5
5°	2010.9	2007.3	1995.8	1984.3	1971.5	1957.1	1949.2	1917.7	1881.9	1831.8	1763.0
7.5°	2014.4	2010.1	1995.8	1980.0	1962.1	1944.9	1931.3	1899.8	1866.9	1816.0	1732.2
10°	2008.7	2003.7	1992.9	1975.8	1953.5	1937.1	1923.5	1893.4	1865.4	1819.6	1726.5
12.5°	2002.3	1997.2	1992.2	1983.6	1964.3	1952.8	1941.4	1912.7	1887.6	1849.0	1747.2
15°	2008.7	2005.8	2011.6	2008.0	1997.2	1987.2	1975.8	1950.0	1927.0	1894.8	1785.2
17.5°	2035.9	2035.9	2053.8	2056.0	2046.0	2031.6	2015.2	1989.4	1970.0	1942.8	1830.3
20°	2099.7	2097.5	2120.5	2124.8	2100.4	2078.2	2053.8	2022.3	2007.3	1990.1	1874.7
22.5°	2209.3	2199.3	2212.9	2208.6	2160.6	2126.2	2096.1	2057.4	2049.5	2041.7	1924.2
25°	2351.8	2346.1	2355.4	2313.2	2228.6	2182.1	2146.2	2102.5	2102.5	2110.4	1980.0
27.5°	2558.9	2537.4	2505.9	2431.4	2304.6	2245.1	2206.4	2159.9	2172.0	2201.4	2053.8
30°	2770.9	2747.3	2674.9	2560.3	2397.0	2334.7	2289.5	2240.8	2269.5	2323.2	2152.7
32.5°	2980.1	2953.6	2851.2	2706.4	2529.5	2467.2	2423.5	2369.8	2417.8	2508.0	2297.4
35°	3182.8	3159.2	3041.0	2870.5	2705.7	2654.2	2614.0	2567.5	2629.1	2755.2	2501.6
37.5°	3410.6	3384.9	3240.9	3056.0	2919.9	2882.7	2853.3	2806.7	2914.2	3099.0	2786.0
40°	3690.7	3647.0	3452.9	3268.8	3167.8	3149.9	3129.8	3123.4	3290.3	3546.0	3164.9
42.5°	4011.7	3940.0	3675.0	3493.0	3440.0	3452.9	3447.9	3476.5	3760.9	4101.9	3626.3
45°	4332.6	4240.2	3922.1	3732.3	3739.5	3784.6	3812.5	3927.1	4350.5	4739.5	4122.7
47.5°	4604.8	4513.9	4159.2	3990.9	4076.9	4165.7	4241.6	4458.7	4956.6	5367.1	4508.8
50°	4837.7	4751.7	4410.7	4275.3	4468.7	4612.0	4735.2	5056.9	5608.5	5844.9	4779.6
52.5°	5028.2	4970.9	4671.5	4601.3	4916.5	5126.3	5306.9	5692.3	6185.9	6233.1	4990.2
55°	5213.7	5172.9	4951.6	4988.8	5442.3	5728.1	5956.6	6366.4	6683.0	6556.9	5192.3
57.5°	5427.2	5390.0	5271.1	5480.2	6133.6	6493.2	6742.5	6963.8	7120.7	6887.9	5382.8
60°	5645.0	5623.5	5626.4	6026.1	6927.3	7272.6	7410.1	7467.4	7550.5	7199.5	5393.6
62.5°	5852.7	5893.6	6032.6	6633.6	7687.4	7952.4	8021.9	8078.5	7981.1	7249.0	4983.1
65°	6204.5	6271.1	6602.8	7446.7	8523.4	8807.1	8878.7	8684.6	8049.1	6610.0	4053.2
67.5°	6376.4	6498.2	7089.9	8204.6	9334.3	9649.5	9623.0	8724.0	7223.2	5040.4	2601.1
69°	6340.6	6470.3	7202.4	8436.7	9603.7	9889.5	9721.2	8241.8	6153.6	3651.3	1596.8
70°	6198.8	6329.9	7144.4	8428.1	9638.1	9864.4	9539.2	7646.5	5203.0	2669.9	998.6
72.5°	5176.5	5289.7	6342.7	7617.9	8878.7	8694.6	7980.4	5297.6	2535.2	727.1	224.9
75°	3186.4	3249.5	4551.1	5738.8	6705.9	6233.1	5316.9	2635.5	755.8	205.6	124.6
77.5°	1683.5	1712.1	2491.5	3382.7	4250.9	3517.4	2725.1	1028.0	348.2	128.9	90.3
80°	995.0	1016.5	1341.8	1546.6	1839.6	1536.6	1089.6	631.1	249.3	80.9	80.2
82.5°	569.5	583.1	972.8	859.6	725.0	618.9	542.3	598.2	149.7	54.4	83.1
85°	209.2	212.0	547.3	654.0	431.3	256.5	269.4	495.7	40.1	34.4	65.2
87.5°	97.4	95.3	281.5	400.5	252.2	162.6	209.9	108.9	15.8	22.2	17.9
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°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1776.6	1750.1	1702.1	1652.7	1602.5	1563.8	1525.9	1495.8	1485.8	1467.1	1468.6
5°	1722.2	1673.4	1573.2	1471.4	1365.4	1278.0	1195.6	1129.0	1096.8	1063.8	1063.8
7.5°	1674.9	1604.0	1447.1	1281.6	1110.4	966.4	836.7	739.3	685.6	642.6	641.9
10°	1657.0	1561.0	1341.8	1104.6	866.1	669.8	515.8	416.9	366.1	333.1	331.7
12.5°	1664.8	1545.9	1260.8	941.3	641.9	430.5	298.7	235.0	213.5	203.4	203.4
15°	1687.8	1541.6	1179.9	781.6	453.5	269.4	198.4	181.2	179.8	179.8	179.8
17.5°	1715.7	1543.1	1096.8	626.1	308.8	192.7	171.2	169.1	170.5	170.5	170.5
20°	1744.4	1543.8	1007.2	482.1	217.8	167.6	161.2	160.5	161.9	161.9	162.6
22.5°	1779.5	1547.4	917.7	360.3	179.8	158.3	153.3	153.3	154.0	154.0	153.3
25°	1819.6	1554.5	824.5	267.2	164.0	151.9	147.6	146.9	147.6	146.9	146.1
27.5°	1869.7	1564.6	720.7	209.2	156.9	145.4	141.8	141.8	141.1	140.4	139.7
30°	1932.8	1576.0	603.9	177.7	149.7	139.7	136.1	135.4	134.7	133.2	133.2
32.5°	2028.8	1601.1	488.6	161.2	141.8	131.8	128.9	128.9	127.5	126.1	125.4
35°	2176.3	1650.5	385.4	151.2	133.2	123.2	119.6	119.6	118.2	117.5	116.8
37.5°	2380.5	1725.7	299.4	141.8	124.6	113.9	110.3	109.6	108.2	106.7	106.0
40°	2652.0	1818.9	235.7	133.2	116.1	104.6	101.7	100.3	97.4	95.3	95.3
42.5°	2993.0	1924.9	191.3	123.9	106.0	96.0	93.8	91.7	86.7	84.5	83.8
45°	3349.8	2020.2	161.9	113.2	96.0	87.4	86.0	82.4	75.9	73.8	73.8
47.5°	3606.9	2042.4	142.6	103.2	86.7	78.1	77.4	70.9	65.2	63.8	63.0
50°	3767.4	1998.7	126.8	93.1	78.1	69.5	67.3	59.5	55.9	54.4	53.7
52.5°	3875.6	1920.6	113.9	84.5	70.2	61.6	56.6	50.9	48.0	46.6	46.6
55°	3962.2	1810.3	101.0	76.7	63.8	55.2	48.0	43.7	40.8	39.4	39.4
57.5°	3986.6	1660.5	88.1	70.2	57.3	48.7	40.8	38.0	34.4	33.7	33.7
60°	3809.7	1390.5	78.1	62.3	51.6	42.3	35.8	32.2	28.7	27.9	27.2
62.5°	3343.3	1076.0	68.8	55.2	45.1	36.5	30.8	26.5	23.6	23.6	23.6
65°	2550.3	721.4	60.2	48.0	39.4	30.8	26.5	21.5	20.1	20.1	20.8
67.5°	1526.6	392.6	51.6	40.8	33.7	25.8	22.2	18.6	17.9	18.6	18.6
69°	894.7	230.7	46.6	36.5	29.4	22.9	19.3	16.5	17.9	18.6	18.6
70°	552.3	155.5	43.0	33.0	26.5	20.8	17.9	15.8	17.2	17.9	17.9
72.5°	154.0	80.2	34.4	25.8	21.5	17.2	14.3	14.3	16.5	17.2	17.2
75°	100.3	59.5	26.5	19.3	16.5	13.6	12.2	13.6	15.8	16.5	16.5
77.5°	83.1	48.7	21.5	15.8	13.6	12.9	11.5	12.2	14.3	15.0	15.0
80°	75.9	34.4	17.2	14.3	12.2	11.5	10.7	10.0	12.9	13.6	13.6
82.5°	72.4	27.2	15.0	12.9	11.5	10.0	9.3	10.0	11.5	12.2	12.9
85°	45.1	17.9	13.6	12.2	10.0	9.3	9.3	9.3	10.7	11.5	11.5
87.5°	16.5	14.3	12.2	10.0	8.6	8.6	8.6	8.6	9.3	10.7	10.7
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)