

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: P200112

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200112
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-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 10525.1 lumens
Efficiency: N/A
Efficacy: 93.1 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

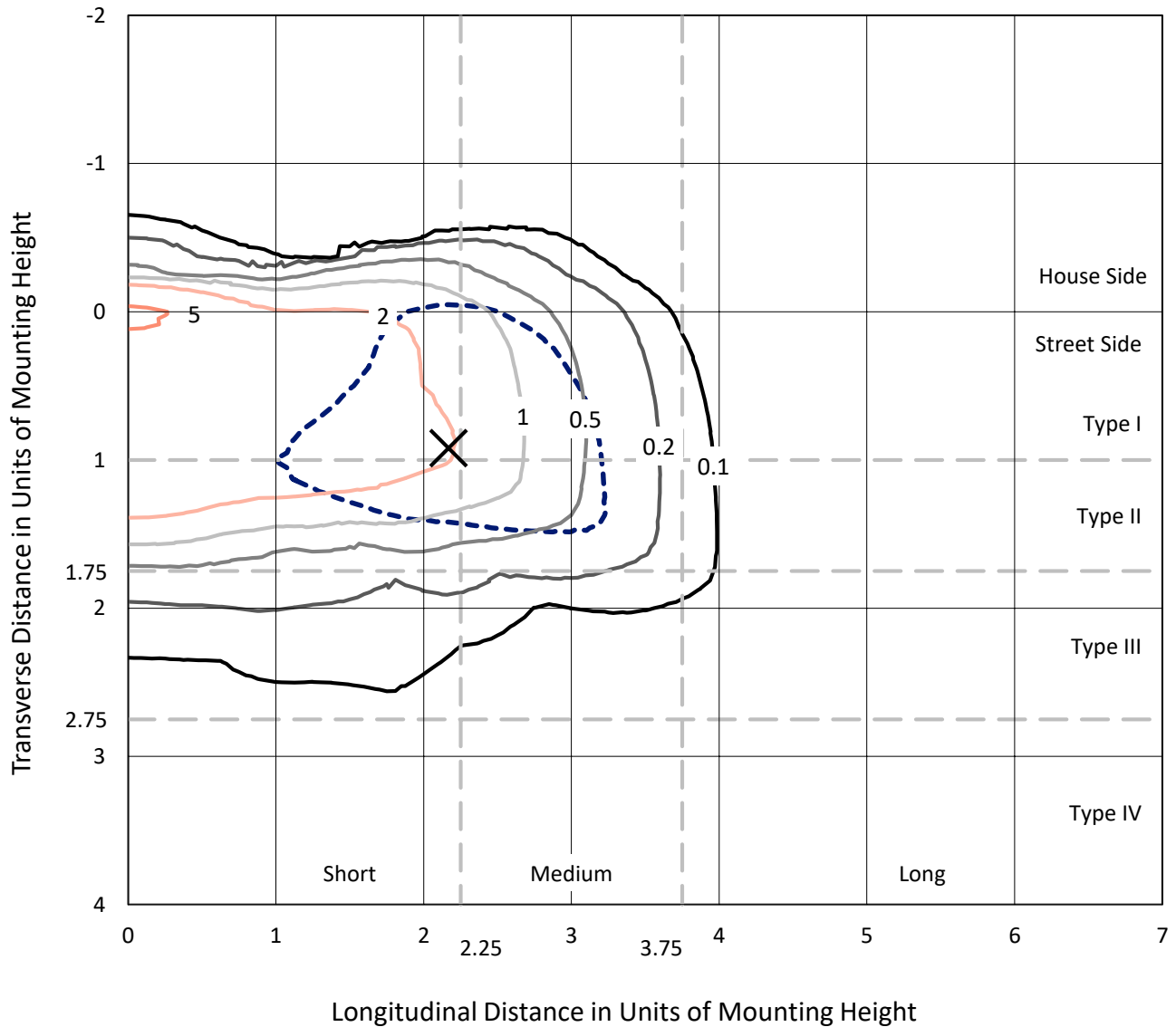
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

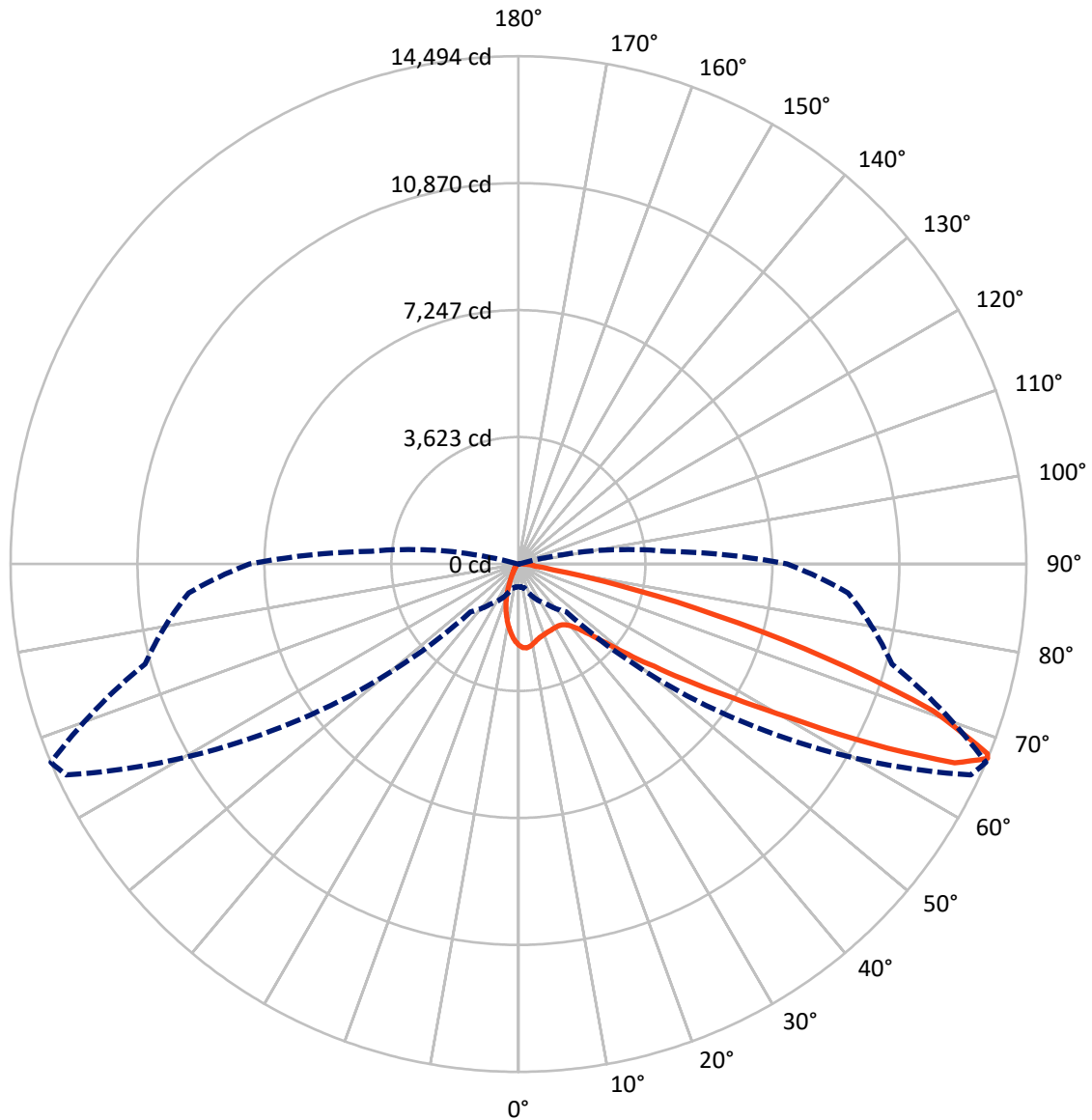
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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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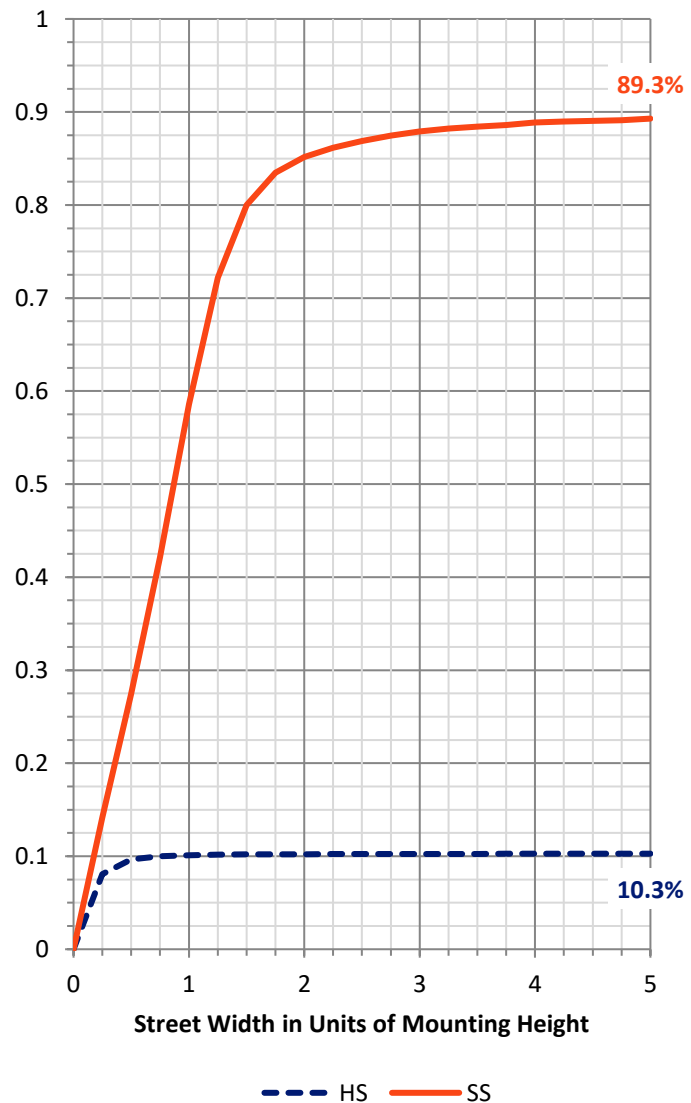
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1092.8	0.0	1092.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9432.3	0.0	9432.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	10525.1	0.0	10525.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.8
10°-20°	402.0	3.8
20°-30°	584.5	5.6
30°-40°	911.8	8.7
40°-50°	1615.2	15.3
50°-60°	2555.8	24.3
60°-70°	2927.4	27.8
70°-80°	1214.2	11.5
80°-90°	125.4	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°	10525.1	100.0
0°-180°	10525.1	100.0



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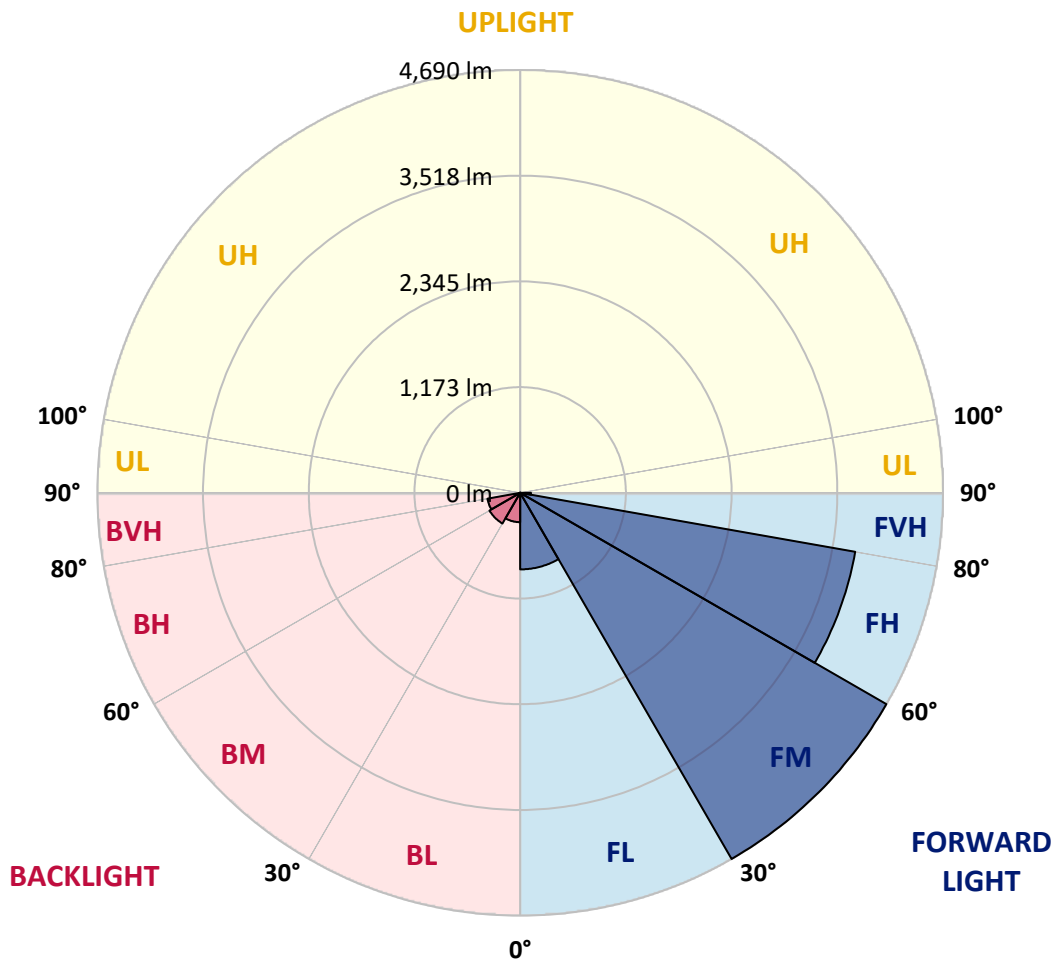
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.2	8.1			
FM (30°-60°)	4690.0	44.6			
FH (60°-80°)	3773.3	35.9			G2/5000
FVH (80°-90°)	119.8	1.1			G2/225
BL (0°-30°)	326.1	3.1	B1/500		
BM (30°-60°)	392.7	3.7	B1/1000		
BH (60°-80°)	368.3	3.5	B1/500		G1/500
BVH (80°-90°)	5.6	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°	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2
2.5°	2399.7	2404.7	2404.0	2407.7	2416.3	2416.9	2408.3	2391.8	2388.1	2366.6	2329.2
5°	2213.2	2227.3	2235.9	2270.8	2310.1	2357.4	2393.0	2405.9	2404.0	2388.7	2332.2
7.5°	2000.1	2014.2	2024.0	2065.1	2117.4	2198.4	2291.1	2367.2	2374.0	2390.5	2329.8
10°	1858.3	1860.7	1874.3	1913.5	1968.2	2051.0	2161.6	2294.8	2315.0	2375.8	2323.6
12.5°	1741.7	1743.5	1761.3	1803.7	1862.0	1945.4	2061.5	2215.6	2246.9	2357.4	2322.4
15°	1658.8	1665.6	1681.5	1725.7	1787.7	1870.6	1989.6	2157.3	2194.7	2350.6	2333.5
17.5°	1631.2	1638.6	1643.5	1675.4	1731.9	1812.9	1935.0	2119.2	2161.6	2354.3	2354.9
20°	1660.0	1665.6	1654.5	1662.5	1697.5	1769.9	1889.0	2086.7	2137.0	2358.6	2382.6
22.5°	1767.5	1769.9	1739.8	1704.8	1698.7	1738.6	1852.8	2060.8	2115.0	2370.3	2415.1
25°	1951.6	1947.3	1898.2	1822.7	1751.5	1733.1	1831.3	2044.9	2103.9	2382.6	2448.8
27.5°	2173.9	2180.0	2112.5	2002.5	1866.9	1769.9	1828.2	2038.1	2099.0	2391.1	2478.3
30°	2443.9	2452.5	2375.2	2237.1	2042.4	1860.7	1856.5	2036.9	2095.9	2385.6	2480.8
32.5°	2719.6	2730.1	2669.3	2526.8	2277.0	2013.0	1920.3	2050.4	2102.1	2366.6	2466.6
35°	3008.2	3022.9	2982.3	2860.2	2595.0	2232.8	2032.6	2091.6	2130.9	2364.8	2452.5
37.5°	3406.5	3420.0	3343.9	3214.4	2979.9	2527.4	2213.2	2169.0	2199.0	2394.2	2456.2
40°	4001.5	3999.6	3803.1	3604.9	3402.8	2901.9	2466.6	2308.9	2324.2	2483.2	2501.6
42.5°	4649.7	4646.7	4356.2	4054.9	3872.5	3363.0	2800.0	2550.8	2540.4	2647.2	2619.6
45°	5149.4	5148.8	4911.9	4572.4	4438.0	3892.1	3231.0	2887.2	2871.2	2913.6	2836.8
47.5°	5362.5	5366.2	5247.0	5008.3	5064.7	4608.0	3774.3	3374.6	3350.7	3333.5	3216.9
50°	5196.7	5204.1	5213.9	5167.2	5524.5	5570.0	4503.0	4061.6	4050.0	3973.2	3790.9
52.5°	4655.2	4692.7	4808.1	4956.1	5684.1	6493.3	5645.5	4915.0	4852.4	4770.6	4569.9
55°	3743.0	3784.1	4003.3	4362.4	5446.6	7099.8	7246.6	6015.1	5910.7	5666.9	5377.2
57.5°	2477.1	2541.0	2858.9	3315.7	4756.5	7197.5	8843.9	7541.8	7178.5	6511.1	6184.5
60°	1364.7	1426.1	1771.1	2184.9	3435.4	6715.0	9918.3	9529.7	8887.5	7454.7	7165.0
62.5°	840.5	873.6	1128.3	1513.3	2060.2	5299.9	10140.5	12027.7	11284.3	8669.6	8349.1
65°	669.1	683.2	807.9	1237.1	1477.0	3152.4	9422.8	13932.0	13684.0	10140.5	9409.3
67°	649.5	655.0	714.0	1062.0	1392.3	1932.6	7894.2	14242.0	14493.7	11030.7	9442.6
67.5°	653.8	659.9	715.9	1013.5	1389.9	1776.0	7367.5	14119.9	14437.8	11101.3	9295.8
70°	630.4	649.5	819.6	1012.9	1321.8	1475.8	4412.2	12234.0	12564.8	10314.8	7887.5
72.5°	223.4	224.6	354.2	819.6	1437.1	1491.8	2215.6	8968.5	9213.5	7890.5	5686.6
75°	132.6	112.9	117.8	233.3	1373.3	1448.8	1278.2	5730.8	5822.3	4521.4	2879.8
77.5°	91.5	79.8	82.2	103.1	523.0	1428.6	1015.4	2988.4	2890.9	1585.7	613.3
80°	52.2	46.0	49.1	90.2	190.3	1332.8	957.7	1211.9	1033.2	268.9	169.4
82.5°	27.6	23.3	28.2	74.3	132.6	830.6	959.5	585.6	464.1	90.8	115.4
85°	9.8	8.0	13.5	50.9	88.4	254.8	889.6	492.3	386.8	44.2	87.8
87.5°	1.8	1.8	5.5	20.9	35.6	77.9	526.1	292.3	195.8	26.4	60.1
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°	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2
2.5°	2313.8	2287.4	2251.8	2208.2	2156.7	2111.3	2077.5	2042.4	2035.1	2022.8	2020.9
5°	2298.5	2253.0	2164.7	2063.3	1955.3	1857.7	1778.5	1707.9	1676.6	1649.6	1646.5
7.5°	2275.8	2207.6	2057.2	1893.9	1725.1	1571.6	1441.4	1349.4	1264.7	1224.2	1218.0
10°	2249.4	2151.8	1936.2	1709.8	1476.4	1259.8	1066.3	904.3	806.1	747.8	740.4
12.5°	2224.8	2097.2	1812.9	1518.8	1208.8	919.0	670.3	515.7	412.6	370.8	365.9
15°	2213.2	2052.9	1697.5	1323.6	928.8	585.0	366.5	283.7	249.9	240.1	239.5
17.5°	2211.9	2015.4	1584.4	1121.6	650.7	340.1	238.9	217.9	211.1	208.7	208.7
20°	2211.3	1979.8	1471.5	912.3	413.2	226.5	198.9	194.0	189.0	186.0	186.0
22.5°	2218.1	1947.9	1353.7	698.7	260.3	183.5	174.9	170.0	163.9	159.6	159.0
25°	2224.8	1923.4	1233.4	497.3	188.4	159.6	151.0	144.2	135.6	130.1	129.5
27.5°	2226.0	1892.7	1104.4	332.8	157.7	139.3	128.3	117.8	108.0	102.5	101.9
30°	2207.6	1841.1	961.4	224.6	139.3	120.9	106.2	95.1	85.9	81.6	81.6
32.5°	2171.4	1777.3	804.2	169.4	124.0	103.7	87.8	77.3	71.2	69.4	68.7
35°	2138.9	1708.5	642.7	143.6	111.1	87.8	71.8	65.1	61.4	60.8	60.1
37.5°	2119.9	1653.3	491.1	130.1	98.8	73.7	60.8	55.9	54.0	52.8	53.4
40°	2134.6	1607.2	362.8	119.1	86.5	61.4	51.6	49.1	47.3	46.6	46.6
42.5°	2199.0	1599.2	269.5	109.3	74.9	50.9	44.8	43.0	41.7	41.1	41.7
45°	2368.4	1648.4	209.3	100.0	63.2	43.0	38.1	37.4	36.8	36.8	36.8
47.5°	2623.3	1749.7	174.3	89.6	52.8	36.8	33.1	32.5	31.9	32.5	32.5
50°	3054.8	1935.0	155.9	79.2	43.6	31.3	28.2	28.2	28.2	28.2	28.8
52.5°	3711.1	2299.7	143.6	68.7	35.6	26.4	23.9	23.9	24.6	24.6	25.2
55°	4442.3	2783.4	132.6	58.3	30.1	22.1	19.6	20.3	20.9	21.5	21.5
57.5°	5235.4	3319.4	123.4	47.9	25.8	17.8	16.6	17.2	17.8	19.0	19.0
60°	6192.4	3899.5	109.9	37.4	21.5	14.1	12.9	14.1	16.0	17.2	17.8
62.5°	7243.5	4460.7	92.7	29.5	17.8	11.0	10.4	12.9	15.3	16.6	17.2
65°	7961.7	4636.8	71.2	23.9	13.5	8.0	8.6	11.7	14.7	16.6	16.6
67°	7670.8	4204.0	58.3	20.3	11.0	6.1	8.0	11.7	14.7	16.0	16.6
67.5°	7468.8	4034.6	55.9	19.6	10.4	6.1	8.0	11.7	14.7	16.6	16.6
70°	6077.0	3030.9	46.6	14.7	8.6	5.5	6.8	11.0	14.1	16.0	16.0
72.5°	4222.4	1868.7	41.7	10.4	7.4	4.9	6.1	10.4	13.5	15.3	16.0
75°	2007.4	676.5	35.6	8.0	6.8	4.3	5.5	10.4	13.5	15.3	15.3
77.5°	409.5	157.1	28.8	6.8	5.5	4.3	4.9	9.8	12.9	14.7	14.7
80°	134.4	60.8	21.5	6.1	5.5	4.3	4.9	9.2	12.9	14.1	14.7
82.5°	97.0	30.7	14.1	6.1	5.5	4.3	4.3	9.2	12.3	14.1	14.1
85°	74.3	21.5	9.2	6.1	5.5	4.3	4.3	8.6	11.7	13.5	13.5
87.5°	49.1	8.6	7.4	6.1	5.5	4.3	4.3	8.6	11.0	12.9	13.5
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)