

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: P200608

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8660 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

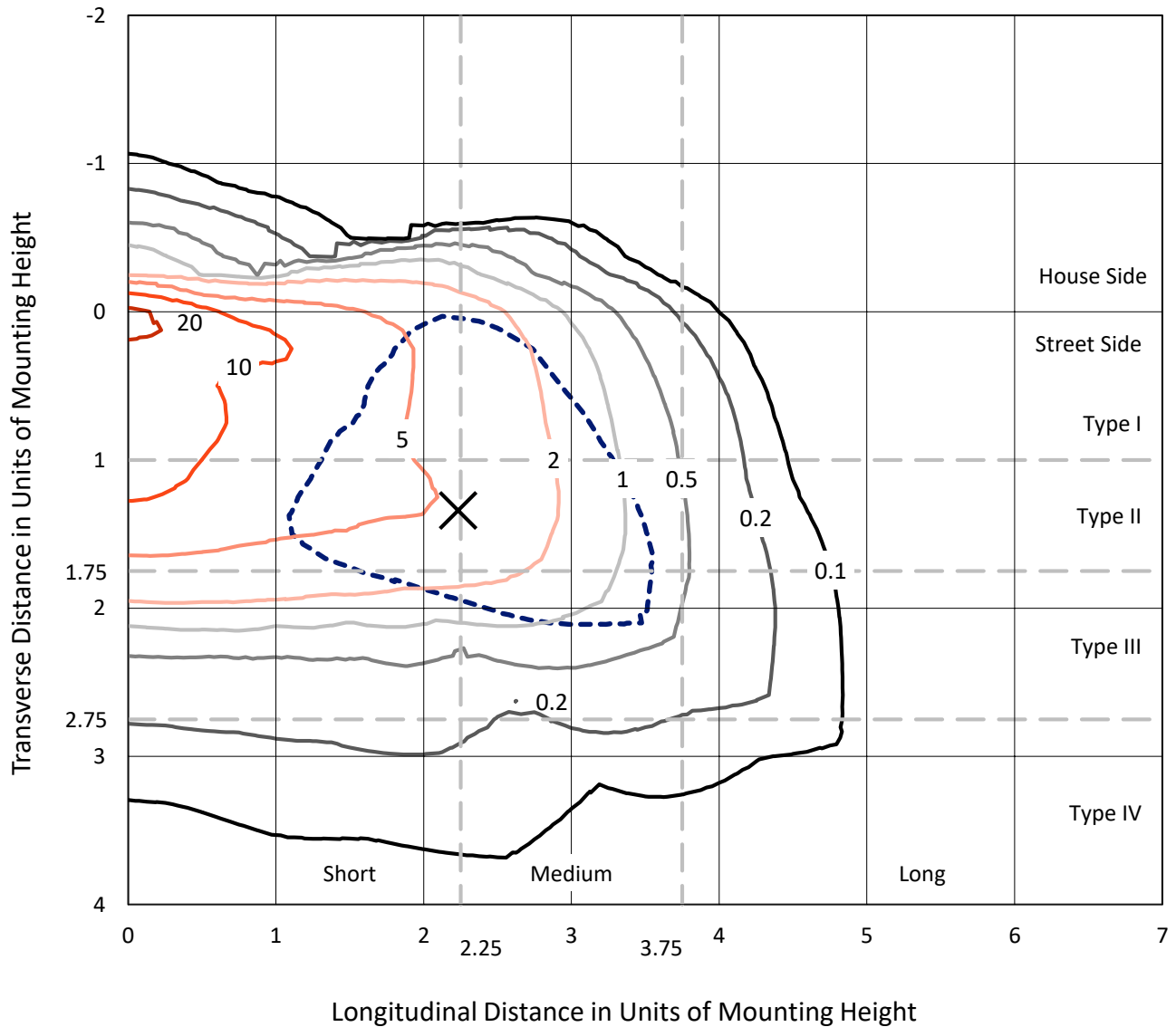
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

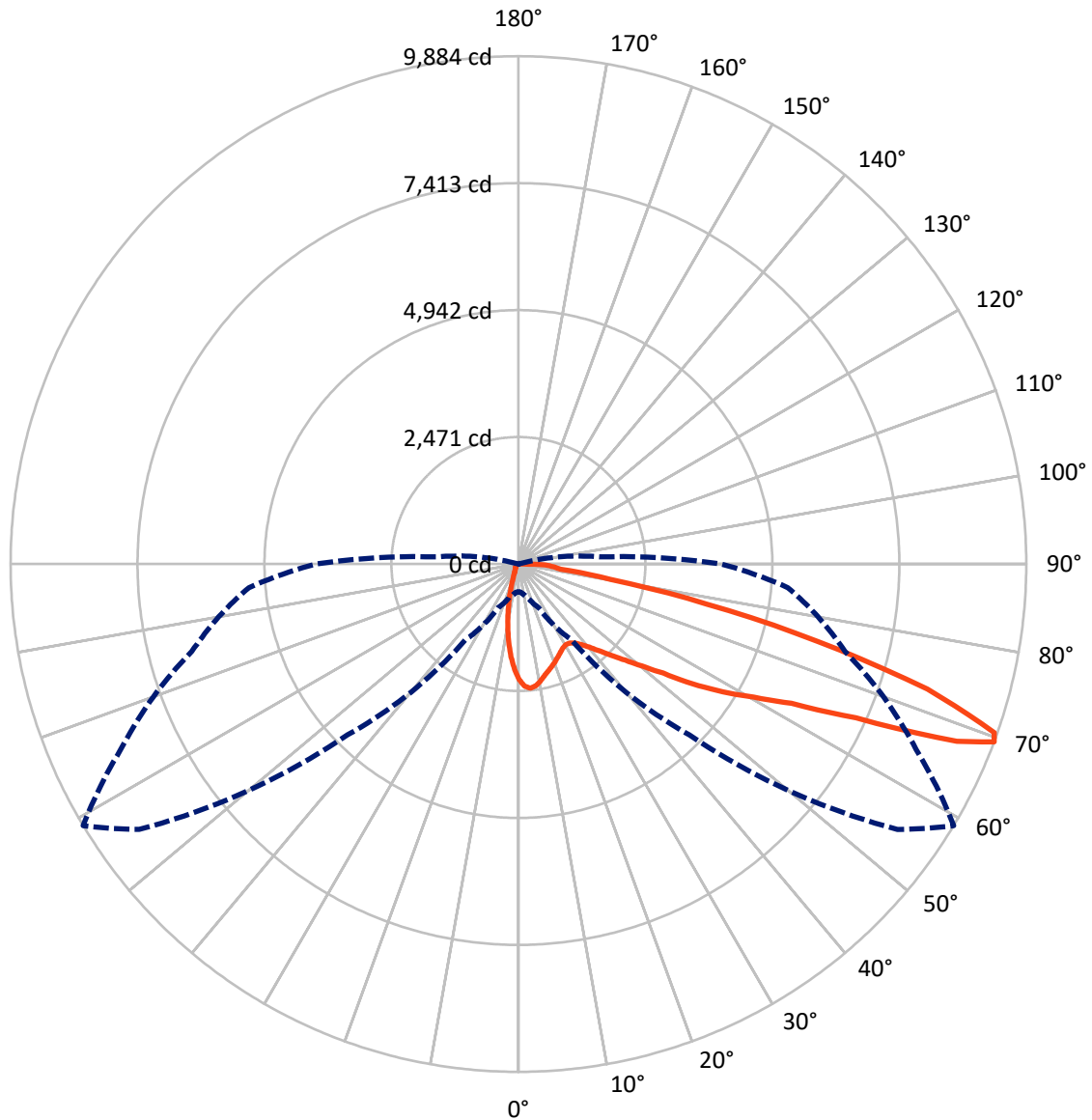
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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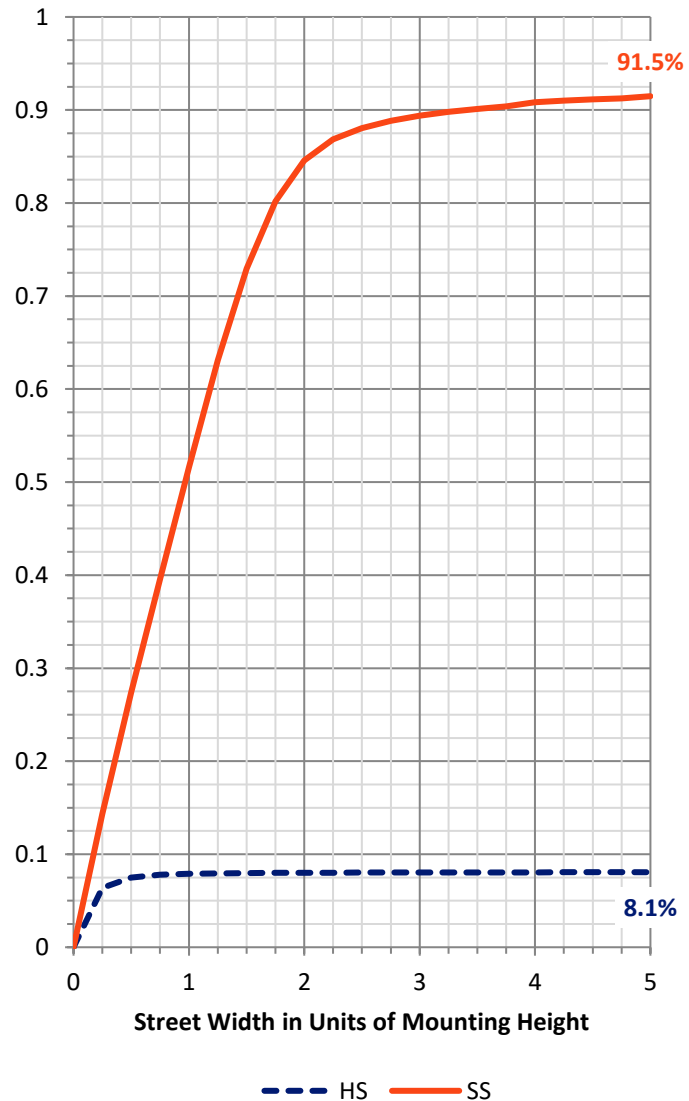
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.2	0.0	705.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7954.8	0.0	7954.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	8660.0	0.0	8660.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	2.1
10°-20°	378.1	4.4
20°-30°	508.7	5.9
30°-40°	738.6	8.5
40°-50°	1229.9	14.2
50°-60°	1918.6	22.2
60°-70°	2374.1	27.4
70°-80°	1203.2	13.9
80°-90°	125.9	1.5
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°	8660.0	100.0
0°-180°	8660.0	100.0



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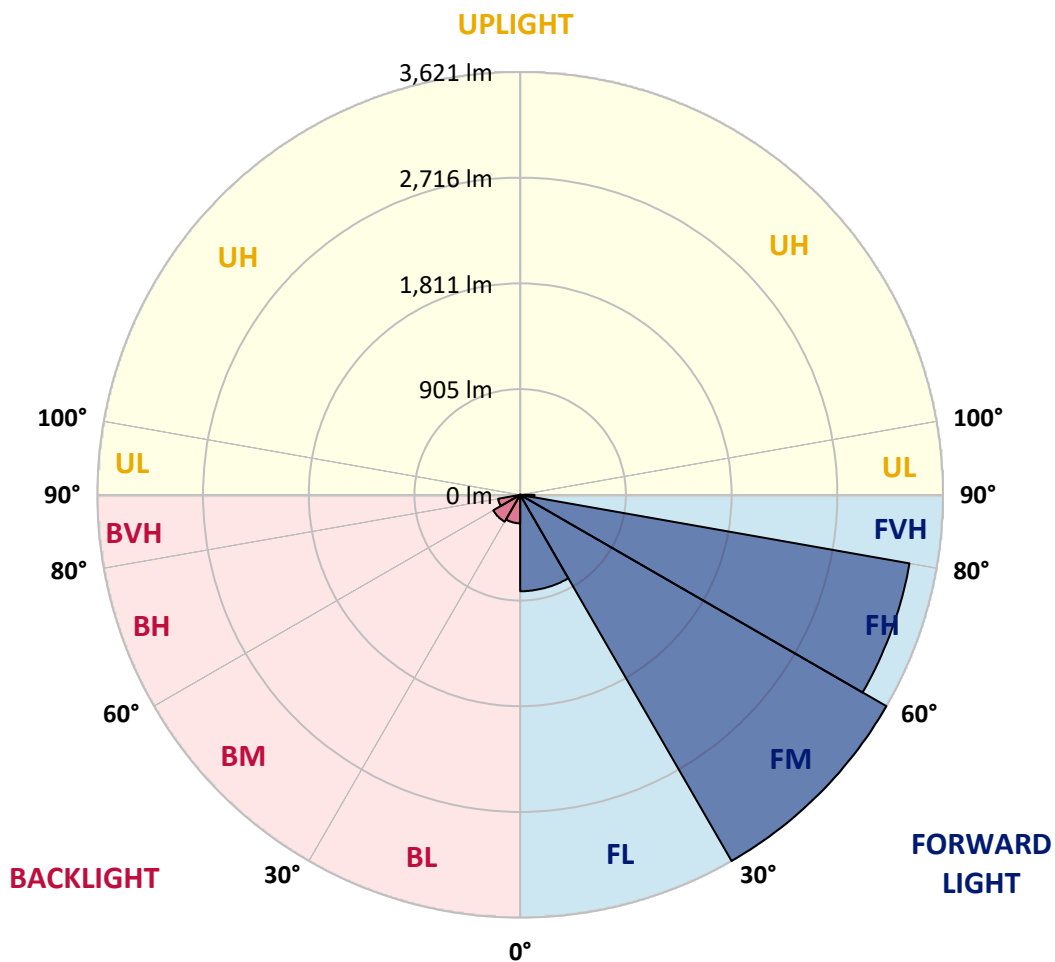
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.6	9.5			
FM	(30°-60°)	3621.4	41.8			
FH	(60°-80°)	3385.7	39.1			G2/5000
FVH	(80°-90°)	122.0	1.4			G2/225
BL	(0°-30°)	244.1	2.8	B1/500		
BM	(30°-60°)	265.7	3.1	B1/1000		
BH	(60°-80°)	191.5	2.2	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2470.5	2469.5	2458.8	2453.9	2445.1	2426.5	2397.6	2382.4	2357.9	2315.3	2258.0
5°	2448.0	2459.8	2466.1	2466.6	2473.0	2466.1	2440.2	2427.4	2393.6	2325.1	2222.2
7.5°	2295.2	2299.6	2317.7	2333.4	2363.8	2392.7	2402.0	2396.6	2376.5	2303.0	2166.4
10°	2131.7	2136.1	2157.6	2178.2	2219.3	2263.9	2310.9	2320.7	2329.0	2271.7	2112.6
12.5°	1990.6	1995.0	2017.1	2044.0	2092.0	2146.8	2219.8	2236.0	2272.7	2241.8	2069.5
15°	1869.2	1871.1	1892.7	1926.0	1983.3	2053.8	2136.6	2162.5	2218.8	2220.8	2031.8
17.5°	1765.8	1770.7	1784.0	1815.8	1878.5	1965.6	2062.1	2099.3	2165.4	2203.1	1995.0
20°	1702.7	1707.6	1707.1	1724.7	1781.0	1874.1	1987.7	2032.2	2112.6	2185.0	1962.2
22.5°	1690.4	1690.4	1677.7	1675.3	1708.6	1786.4	1910.3	1964.7	2065.1	2177.2	1939.2
25°	1734.0	1732.1	1700.2	1674.3	1675.7	1722.3	1835.4	1900.0	2024.9	2182.6	1927.0
27.5°	1826.1	1823.6	1783.5	1734.0	1694.4	1693.9	1778.6	1848.1	1993.1	2208.0	1931.9
30°	1953.4	1952.4	1908.8	1846.6	1774.7	1708.6	1759.0	1822.2	1972.5	2254.1	1943.1
32.5°	2092.5	2091.0	2058.2	1992.6	1901.5	1774.7	1779.6	1832.4	1978.4	2315.3	1970.5
35°	2239.9	2237.4	2223.2	2165.9	2065.5	1896.6	1847.1	1888.3	2015.6	2406.9	2024.4
37.5°	2399.5	2402.0	2412.3	2357.4	2252.1	2067.5	1960.3	1988.2	2090.5	2531.2	2112.1
40°	2635.1	2634.6	2638.0	2566.0	2464.6	2276.6	2118.4	2127.2	2215.9	2696.3	2245.3
42.5°	3062.6	3032.7	2942.1	2795.2	2693.3	2515.6	2317.7	2308.4	2369.2	2900.5	2431.8
45°	3637.0	3573.3	3338.3	3056.7	2926.4	2784.9	2563.1	2533.2	2571.9	3145.8	2662.0
47.5°	4131.1	4065.0	3732.5	3329.0	3173.7	3040.5	2850.5	2796.7	2809.4	3420.5	2953.9
50°	4299.1	4266.7	3976.3	3566.0	3413.2	3362.3	3184.0	3118.4	3100.3	3738.4	3292.2
52.5°	4240.8	4238.3	4044.9	3719.7	3632.6	3695.3	3603.7	3527.8	3461.2	4073.3	3636.5
55°	4147.2	4159.5	4072.8	3854.4	3851.5	3999.4	4177.6	4114.4	3921.5	4437.2	3933.3
57.5°	3889.2	3941.6	4057.1	4109.1	4229.5	4380.8	4655.6	4692.8	4464.6	4715.8	4179.6
60°	3155.6	3270.7	3648.7	4145.8	4716.8	5093.8	5232.4	5264.2	4910.2	4947.4	4512.1
62.5°	2239.9	2357.4	2836.8	3677.6	4724.1	6030.6	6091.8	5967.0	5400.9	5290.7	5085.5
65°	1189.0	1279.6	1671.3	2654.7	4095.8	6248.1	7594.7	7222.6	6266.7	5966.0	5826.4
67.5°	608.2	635.6	791.4	1299.2	2815.8	5549.7	8941.9	9203.9	7758.8	6635.9	5790.7
69°	538.2	554.3	657.7	939.2	1803.1	4700.6	9007.5	9884.1	8539.8	6580.1	5262.3
70°	521.0	535.2	629.3	850.1	1409.3	3942.1	8756.3	9824.3	8739.6	6367.5	4867.6
72.5°	442.2	454.4	560.2	751.2	1145.4	1956.8	7112.9	8324.9	7842.5	5304.4	3523.4
75°	295.8	335.9	537.7	704.2	1065.6	1111.6	4689.3	6015.9	5588.4	3577.7	1835.4
77.5°	71.0	76.4	151.8	560.2	974.5	978.4	2411.8	3739.8	3050.3	1275.2	433.9
80°	38.2	36.7	42.6	111.2	907.4	918.2	1085.7	1815.3	1089.1	211.5	143.0
82.5°	26.9	25.5	27.4	46.5	285.5	836.4	785.5	821.7	451.5	81.3	64.2
85°	9.8	9.3	15.2	42.1	89.6	480.9	807.0	677.7	365.8	37.2	47.0
87.5°	3.4	2.9	5.9	23.0	27.4	204.7	498.0	512.2	144.0	22.5	22.0
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°	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2234.0	2203.6	2147.8	2090.5	2037.6	1974.0	1942.1	1910.8	1897.6	1892.7	1869.7
5°	2169.4	2117.9	1999.4	1880.4	1770.7	1654.2	1577.3	1515.6	1479.4	1461.7	1433.8
7.5°	2086.6	2002.4	1822.7	1639.0	1468.1	1299.7	1174.8	1078.8	1012.7	980.9	952.0
10°	2006.3	1894.2	1638.5	1388.3	1156.2	932.9	760.5	635.6	555.8	519.1	495.6
12.5°	1934.3	1788.9	1460.8	1143.9	852.6	591.1	415.8	316.3	266.9	249.7	241.4
15°	1870.2	1691.9	1292.8	911.8	577.4	337.9	227.2	193.4	185.6	185.6	184.6
17.5°	1809.4	1596.9	1130.7	693.9	362.4	206.7	172.9	168.5	168.5	170.4	170.4
20°	1751.2	1506.3	974.0	498.0	228.2	164.0	156.2	155.2	156.2	158.7	158.7
22.5°	1701.2	1424.0	827.6	341.8	169.4	147.9	144.0	142.5	143.0	144.5	145.4
25°	1664.0	1354.5	689.5	231.6	145.9	134.7	130.3	127.8	125.9	125.9	126.8
27.5°	1640.5	1295.7	555.8	168.5	131.2	122.4	115.6	111.7	107.2	104.8	105.8
30°	1623.3	1239.9	430.4	137.6	117.5	108.7	99.9	93.5	87.2	84.2	85.2
32.5°	1617.0	1194.9	321.7	121.4	105.3	95.5	84.7	76.4	69.5	67.1	67.6
35°	1634.1	1159.1	235.5	109.7	95.5	83.2	71.0	61.7	56.3	54.8	55.3
37.5°	1679.2	1140.0	176.3	99.9	86.7	73.0	59.3	50.4	47.0	47.0	47.5
40°	1764.4	1139.5	141.5	93.0	78.8	63.2	49.0	42.6	40.6	41.6	42.1
42.5°	1888.8	1165.5	123.4	86.7	72.0	53.9	40.6	36.2	35.7	36.7	37.2
45°	2058.7	1213.0	113.6	81.3	64.6	45.1	34.3	31.3	31.3	32.8	33.3
47.5°	2266.8	1282.5	105.3	75.9	57.3	37.7	29.4	27.4	27.9	29.4	29.9
50°	2517.5	1370.2	97.0	70.0	51.9	31.3	25.5	24.0	24.5	26.4	26.9
52.5°	2803.0	1488.2	90.1	64.6	45.1	26.0	21.5	20.6	21.5	23.5	24.0
55°	3047.9	1594.0	81.8	60.2	36.2	21.5	17.6	17.6	18.6	21.1	21.5
57.5°	3283.4	1704.6	74.4	51.9	28.4	17.1	14.7	15.2	16.6	19.1	19.6
60°	3629.1	1892.2	65.6	43.6	21.5	13.7	12.2	12.7	14.7	17.1	17.6
62.5°	4216.3	2177.7	56.8	36.2	16.6	10.8	9.8	10.8	13.2	16.2	16.6
65°	4746.1	2293.7	46.5	30.4	12.7	8.3	8.3	9.8	12.7	15.7	16.2
67.5°	4450.9	1930.9	36.2	24.0	9.8	6.4	6.9	9.3	12.2	15.7	16.2
69°	3936.2	1578.8	30.9	19.1	8.3	5.9	6.4	9.3	12.2	15.2	15.7
70°	3535.1	1333.0	27.4	16.2	7.3	5.9	6.4	8.8	12.2	15.2	15.7
72.5°	2367.7	719.9	22.0	11.8	6.9	5.4	5.4	8.8	11.8	14.7	15.2
75°	1017.6	198.8	17.6	8.3	5.9	4.9	4.9	8.3	11.3	14.2	15.2
77.5°	186.1	50.4	14.2	7.3	5.9	4.9	4.4	7.8	10.8	13.7	14.2
80°	73.9	25.0	11.3	6.4	5.4	4.4	3.9	7.3	10.3	13.2	13.7
82.5°	44.6	14.2	9.3	5.9	5.4	3.9	3.4	6.4	9.8	12.7	13.2
85°	36.2	9.8	7.3	5.9	4.9	3.9	2.9	5.9	8.8	12.2	12.7
87.5°	17.6	6.9	6.9	5.4	4.9	3.9	2.9	5.4	8.3	11.8	12.2
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)