

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: P199980

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199980
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: GPC-AF-02-LED-E1-SL4-7030-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 615mA 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: 6423.3 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

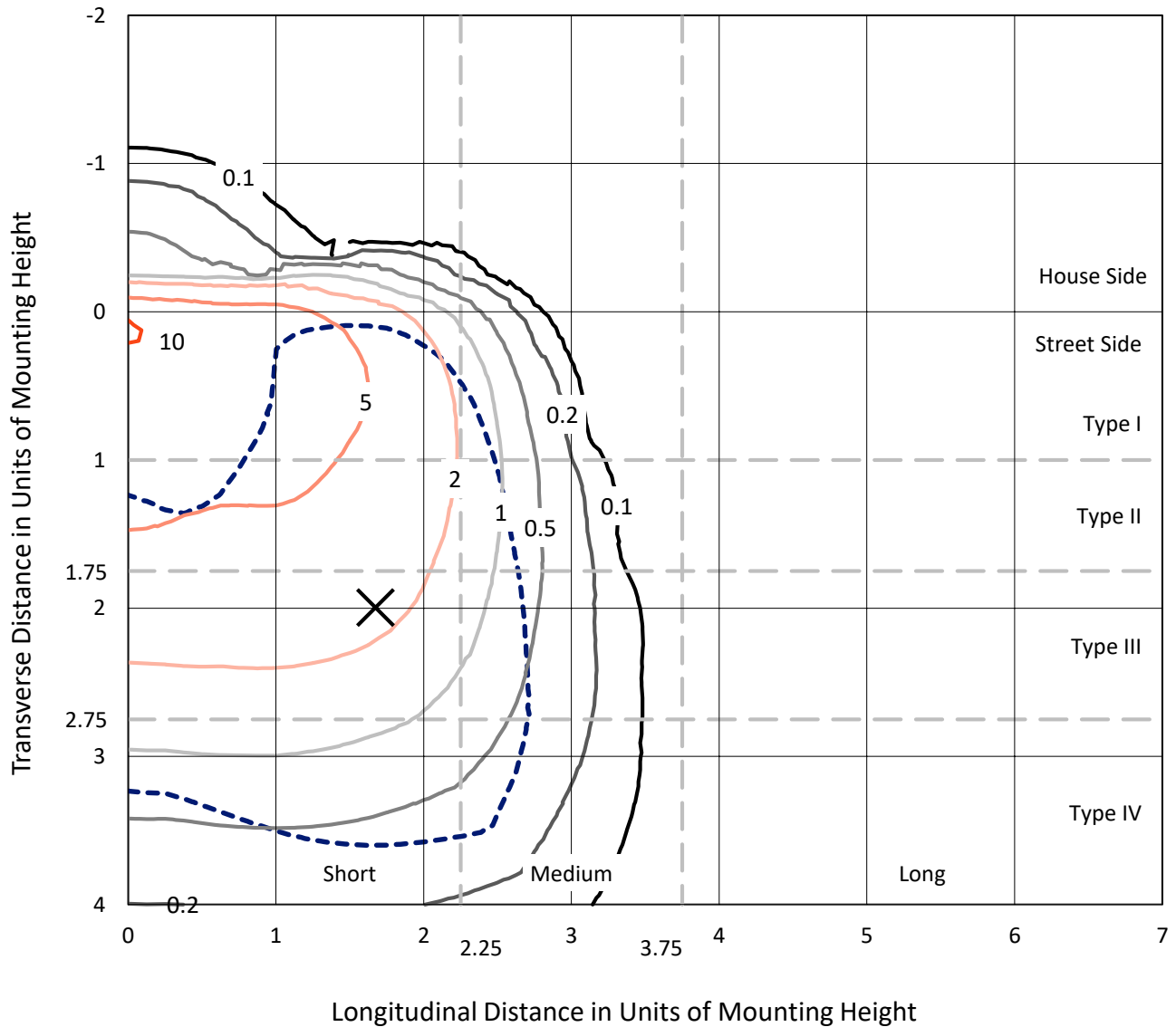
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

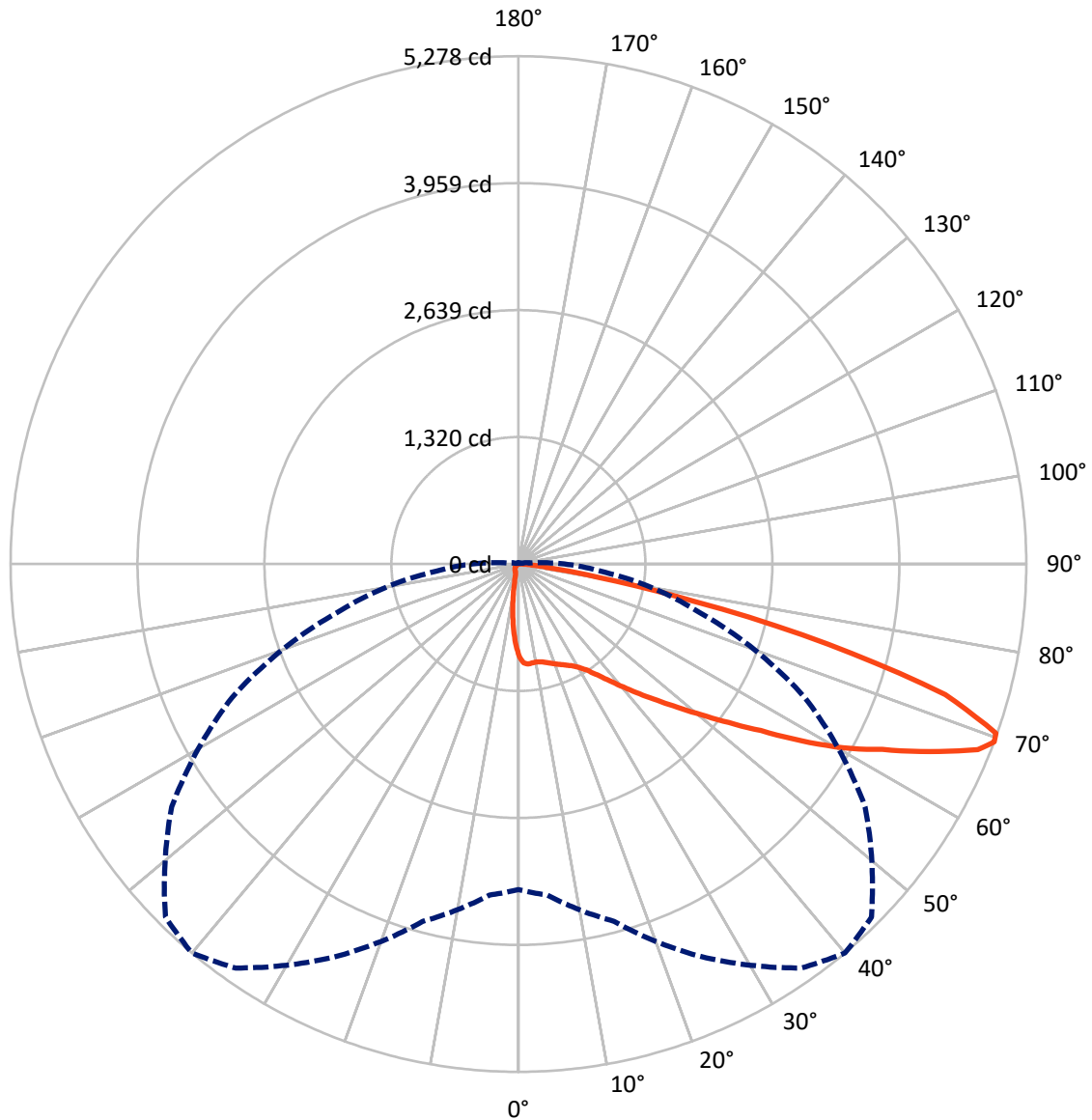


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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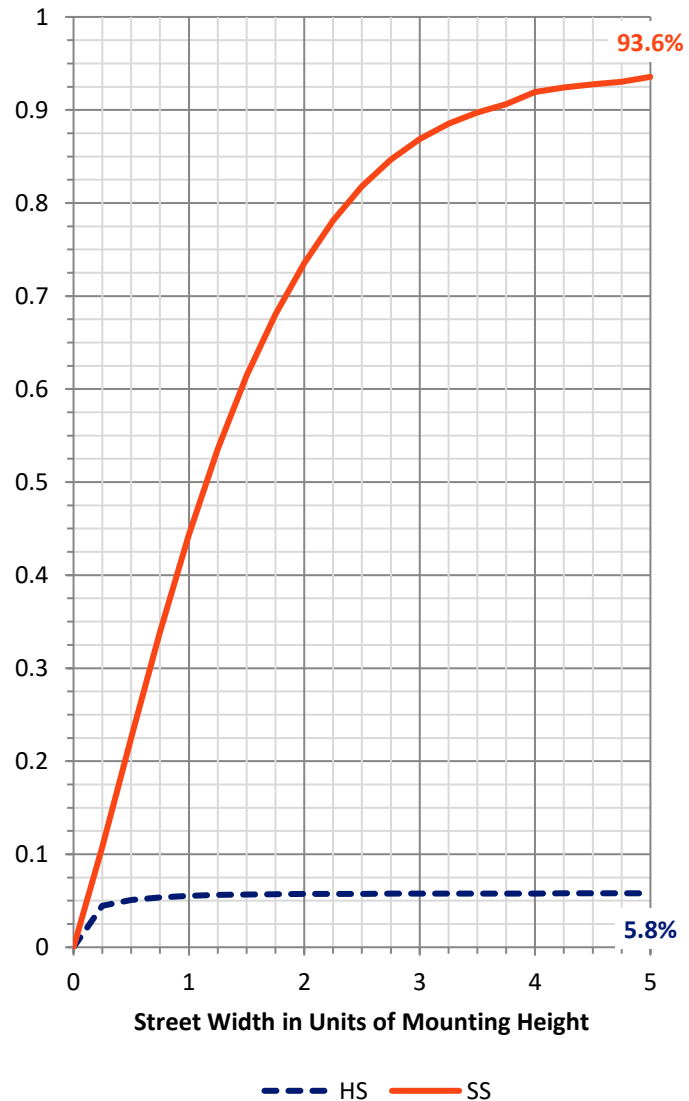
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.7	0.0	375.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	6047.6	0.0	6047.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	6423.3	0.0	6423.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.2
10°-20°	191.3	3.0
20°-30°	322.3	5.0
30°-40°	527.6	8.2
40°-50°	913.5	14.2
50°-60°	1438.9	22.4
60°-70°	1879.2	29.3
70°-80°	967.9	15.1
80°-90°	104.7	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°	6423.3	100.0
0°-180°	6423.3	100.0

Coefficient of Utilization



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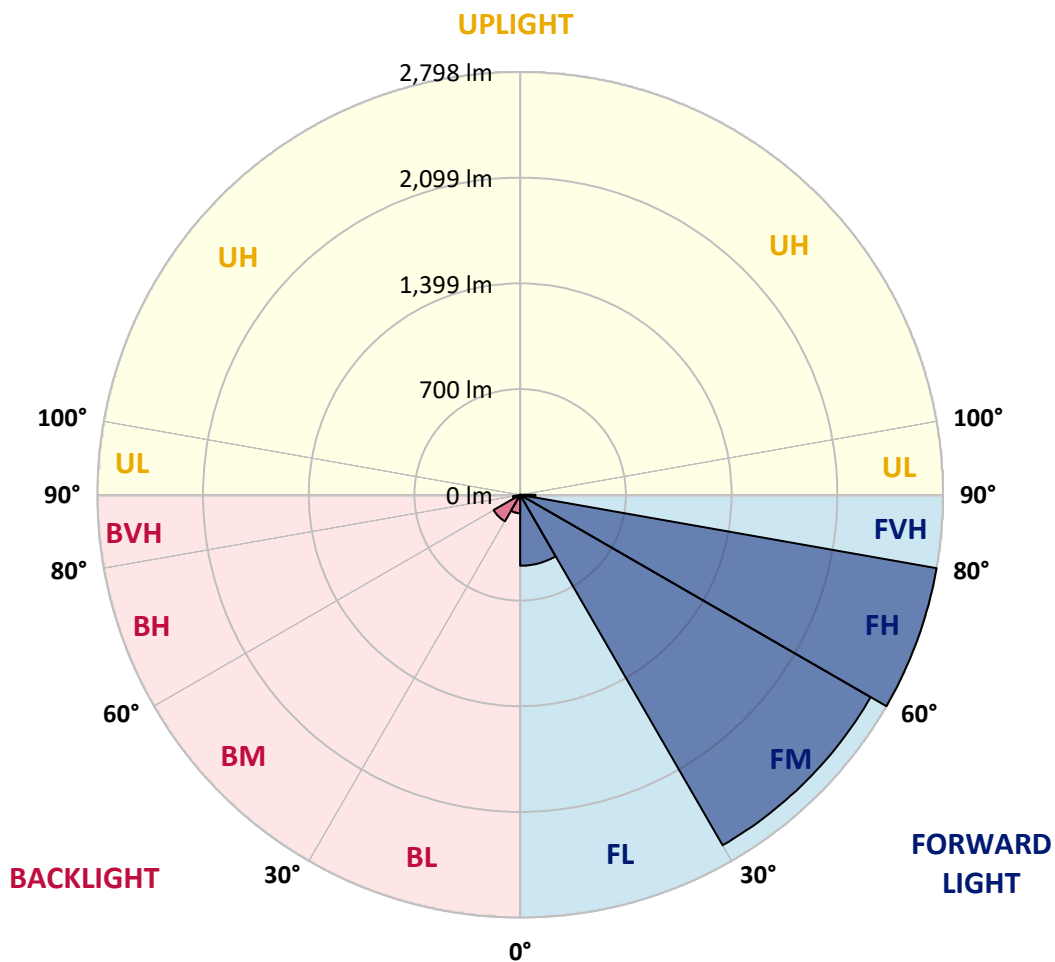
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.7	7.3			
FM	(30°-60°)	2678.1	41.7			
FH	(60°-80°)	2798.3	43.6			G2/5000
FVH	(80°-90°)	101.4	1.6			G2/225
BL	(0°-30°)	121.7	1.9	B1/500		
BM	(30°-60°)	202.0	3.1	B0/220		
BH	(60°-80°)	48.8	0.8	B0/110		G0/110
BVH	(80°-90°)	3.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8
2.5°	1053.7	1048.1	1044.5	1039.9	1034.2	1029.2	1027.4	1013.2	999.8	981.4	960.5
5°	1073.3	1071.3	1065.2	1059.0	1052.1	1044.5	1040.3	1023.5	1004.4	977.7	940.9
7.5°	1075.1	1072.8	1065.2	1056.7	1047.2	1038.1	1030.8	1013.9	996.3	969.2	924.6
10°	1072.1	1069.4	1063.6	1054.5	1042.7	1033.8	1026.6	1010.5	995.6	971.2	921.5
12.5°	1068.7	1066.0	1063.3	1058.7	1048.4	1042.3	1036.1	1020.8	1007.5	986.8	932.5
15°	1072.1	1070.5	1073.6	1071.8	1066.0	1060.6	1054.5	1040.7	1028.4	1011.3	952.8
17.5°	1086.6	1086.6	1096.2	1097.3	1091.9	1084.3	1075.5	1061.8	1051.4	1036.9	976.9
20°	1120.7	1119.5	1131.7	1134.0	1121.0	1109.2	1096.2	1079.4	1071.3	1062.1	1000.6
22.5°	1179.1	1173.8	1181.1	1178.8	1153.1	1134.7	1118.7	1098.0	1093.9	1089.7	1026.9
25°	1255.3	1252.2	1257.1	1234.6	1189.5	1164.6	1145.5	1122.2	1122.2	1126.4	1056.7
27.5°	1365.7	1354.3	1337.5	1297.7	1230.0	1198.2	1177.6	1152.8	1159.2	1175.0	1096.2
30°	1479.0	1466.3	1427.7	1366.5	1279.3	1246.1	1221.9	1196.0	1211.2	1240.0	1149.0
32.5°	1590.6	1576.4	1521.8	1444.5	1350.0	1316.8	1293.5	1264.7	1290.5	1338.5	1226.2
35°	1698.8	1686.1	1623.0	1532.1	1444.1	1416.5	1395.1	1370.3	1403.2	1470.5	1335.1
37.5°	1820.4	1806.6	1729.7	1631.0	1558.5	1538.6	1522.8	1498.1	1555.5	1653.9	1486.9
40°	1969.8	1946.6	1842.8	1744.7	1690.7	1681.2	1670.5	1667.0	1756.2	1892.6	1689.1
42.5°	2141.2	2102.9	1961.4	1864.3	1836.0	1842.8	1840.3	1855.5	2007.3	2189.3	1935.4
45°	2312.4	2263.1	2093.3	1992.1	1995.8	2019.8	2034.9	2096.0	2322.0	2529.6	2200.4
47.5°	2457.7	2409.1	2219.9	2130.0	2175.9	2223.3	2263.9	2379.6	2645.3	2864.6	2406.4
50°	2582.1	2536.1	2354.1	2281.9	2385.0	2461.5	2527.2	2698.9	2993.3	3119.6	2550.9
52.5°	2683.6	2653.1	2493.3	2455.8	2624.0	2736.1	2832.4	3038.1	3301.5	3326.7	2663.4
55°	2782.8	2760.9	2642.8	2662.6	2904.6	3057.2	3179.2	3397.9	3566.9	3499.6	2771.3
57.5°	2896.7	2876.8	2813.3	2925.0	3273.6	3465.6	3598.6	3716.8	3800.5	3676.2	2873.0
60°	3012.9	3001.4	3002.9	3216.3	3697.3	3881.6	3954.9	3985.6	4029.9	3842.5	2878.7
62.5°	3123.7	3145.6	3219.8	3540.5	4102.9	4244.4	4281.5	4311.7	4259.7	3869.0	2659.6
65°	3311.4	3347.0	3524.0	3974.5	4549.1	4700.6	4738.8	4635.1	4296.0	3527.9	2163.4
67.5°	3403.2	3468.2	3784.0	4379.0	4981.9	5150.2	5136.1	4656.2	3855.2	2690.2	1388.2
69°	3384.1	3453.3	3844.1	4502.9	5125.7	5278.2	5188.4	4398.9	3284.4	1948.8	852.2
70°	3308.4	3378.4	3813.1	4498.3	5144.0	5264.8	5091.3	4081.2	2777.0	1425.0	532.9
72.5°	2762.8	2823.3	3385.3	4065.9	4738.8	4640.5	4259.3	2827.4	1353.0	388.1	120.0
75°	1700.6	1734.3	2429.1	3063.0	3579.2	3326.7	2837.8	1406.6	403.3	109.7	66.5
77.5°	898.5	913.9	1329.8	1805.4	2268.9	1877.3	1454.5	548.7	185.8	68.9	48.2
80°	531.1	542.6	716.0	825.5	981.8	820.1	581.6	336.8	133.1	43.1	42.8
82.5°	304.0	311.3	519.2	458.8	386.9	330.3	289.4	319.2	79.9	29.1	44.4
85°	111.7	113.2	292.2	349.1	230.2	136.9	143.7	264.6	21.5	18.3	34.8
87.5°	52.0	50.8	150.2	213.7	134.6	86.8	112.0	58.1	8.4	11.8	9.5
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°	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8
2.5°	948.3	934.0	908.5	882.0	855.3	834.6	814.4	798.3	793.0	783.1	783.8
5°	919.2	893.2	839.6	785.3	728.8	682.1	638.2	602.6	585.4	567.8	567.8
7.5°	894.0	856.0	772.4	684.0	592.6	515.8	446.6	394.5	365.9	343.0	342.5
10°	884.4	833.1	716.0	589.6	462.2	357.5	275.4	222.6	195.3	177.8	177.0
12.5°	888.6	825.1	672.9	502.4	342.5	229.8	159.4	125.4	113.9	108.6	108.6
15°	900.9	822.8	629.8	417.2	242.0	143.7	105.9	96.7	95.9	95.9	95.9
17.5°	915.7	823.6	585.4	334.2	164.8	102.8	91.3	90.2	91.0	91.0	91.0
20°	931.0	824.0	537.5	257.3	116.3	89.5	86.0	85.7	86.5	86.5	86.8
22.5°	949.8	825.9	489.8	192.3	95.9	84.4	81.8	81.8	82.2	82.2	81.8
25°	971.2	829.8	440.1	142.6	87.5	81.1	78.7	78.3	78.7	78.3	78.0
27.5°	997.9	835.1	384.6	111.7	83.7	77.6	75.7	75.7	75.3	75.0	74.6
30°	1031.5	841.2	322.4	94.8	79.9	74.6	72.6	72.2	71.9	71.1	71.1
32.5°	1082.8	854.5	260.8	86.0	75.7	70.4	68.9	68.9	68.1	67.3	66.8
35°	1161.5	880.9	205.7	80.7	71.1	65.8	63.8	63.8	63.1	62.8	62.3
37.5°	1270.5	921.0	159.8	75.7	66.5	60.7	58.9	58.5	57.7	57.0	56.6
40°	1415.5	970.8	125.7	71.1	62.0	55.8	54.3	53.5	52.0	50.8	50.8
42.5°	1597.5	1027.4	102.0	66.1	56.6	51.3	50.0	48.9	46.2	45.2	44.7
45°	1787.8	1078.2	86.5	60.4	51.3	46.7	45.9	43.9	40.5	39.4	39.4
47.5°	1925.1	1090.1	76.1	55.0	46.2	41.6	41.3	37.8	34.8	34.0	33.7
50°	2010.7	1066.7	67.6	49.7	41.6	37.0	35.9	31.6	29.8	29.1	28.6
52.5°	2068.5	1025.1	60.7	45.2	37.4	32.9	30.1	27.1	25.5	24.8	24.8
55°	2114.7	966.2	53.9	40.9	34.0	29.4	25.5	23.3	21.8	21.0	21.0
57.5°	2127.8	886.3	47.0	37.4	30.6	26.0	21.8	20.2	18.3	17.9	17.9
60°	2033.4	742.1	41.6	33.3	27.6	22.5	19.1	17.2	15.3	14.9	14.5
62.5°	1784.4	574.2	36.7	29.4	24.0	19.4	16.4	14.1	12.6	12.6	12.6
65°	1361.2	385.0	32.1	25.5	21.0	16.4	14.1	11.5	10.7	10.7	11.0
67.5°	814.7	209.6	27.6	21.8	17.9	13.7	11.8	10.0	9.5	10.0	10.0
69°	477.6	123.1	24.8	19.4	15.7	12.2	10.3	8.7	9.5	10.0	10.0
70°	294.8	82.9	23.0	17.6	14.1	11.0	9.5	8.4	9.2	9.5	9.5
72.5°	82.2	42.8	18.3	13.7	11.5	9.2	7.6	7.6	8.7	9.2	9.2
75°	53.5	31.6	14.1	10.3	8.7	7.2	6.4	7.2	8.4	8.7	8.7
77.5°	44.4	26.0	11.5	8.4	7.2	6.9	6.1	6.4	7.6	7.9	7.9
80°	40.5	18.3	9.2	7.6	6.4	6.1	5.7	5.4	6.9	7.2	7.2
82.5°	38.6	14.5	7.9	6.9	6.1	5.4	4.9	5.4	6.1	6.4	6.9
85°	24.0	9.5	7.2	6.4	5.4	4.9	4.9	4.9	5.7	6.1	6.1
87.5°	8.7	7.6	6.4	5.4	4.6	4.6	4.6	4.6	4.9	5.7	5.7
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)