

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: P200143

Luminaire Tested: **GPC-AF-01-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200143
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-01-LED-E1-SL4-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE 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: 5278.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

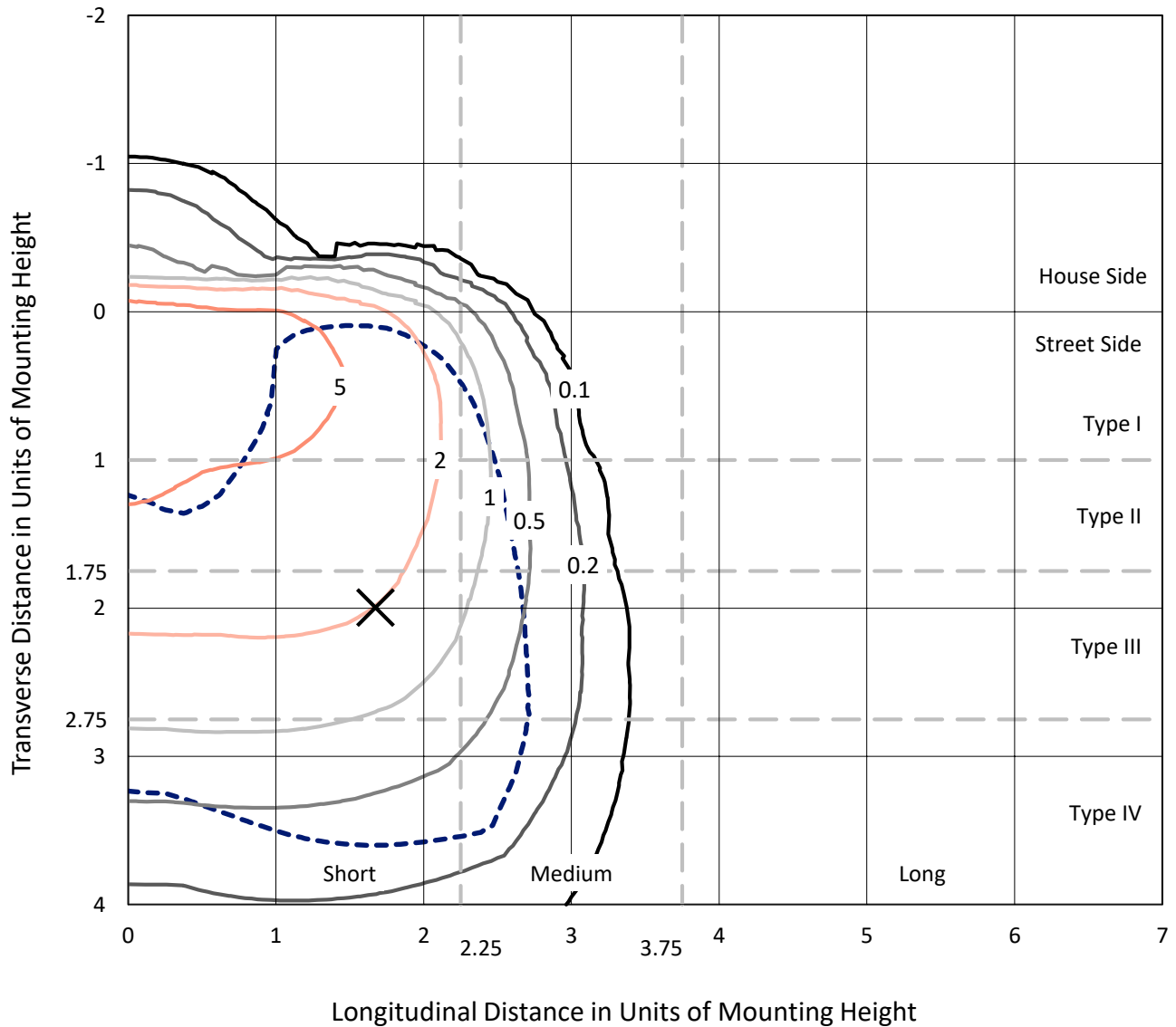
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

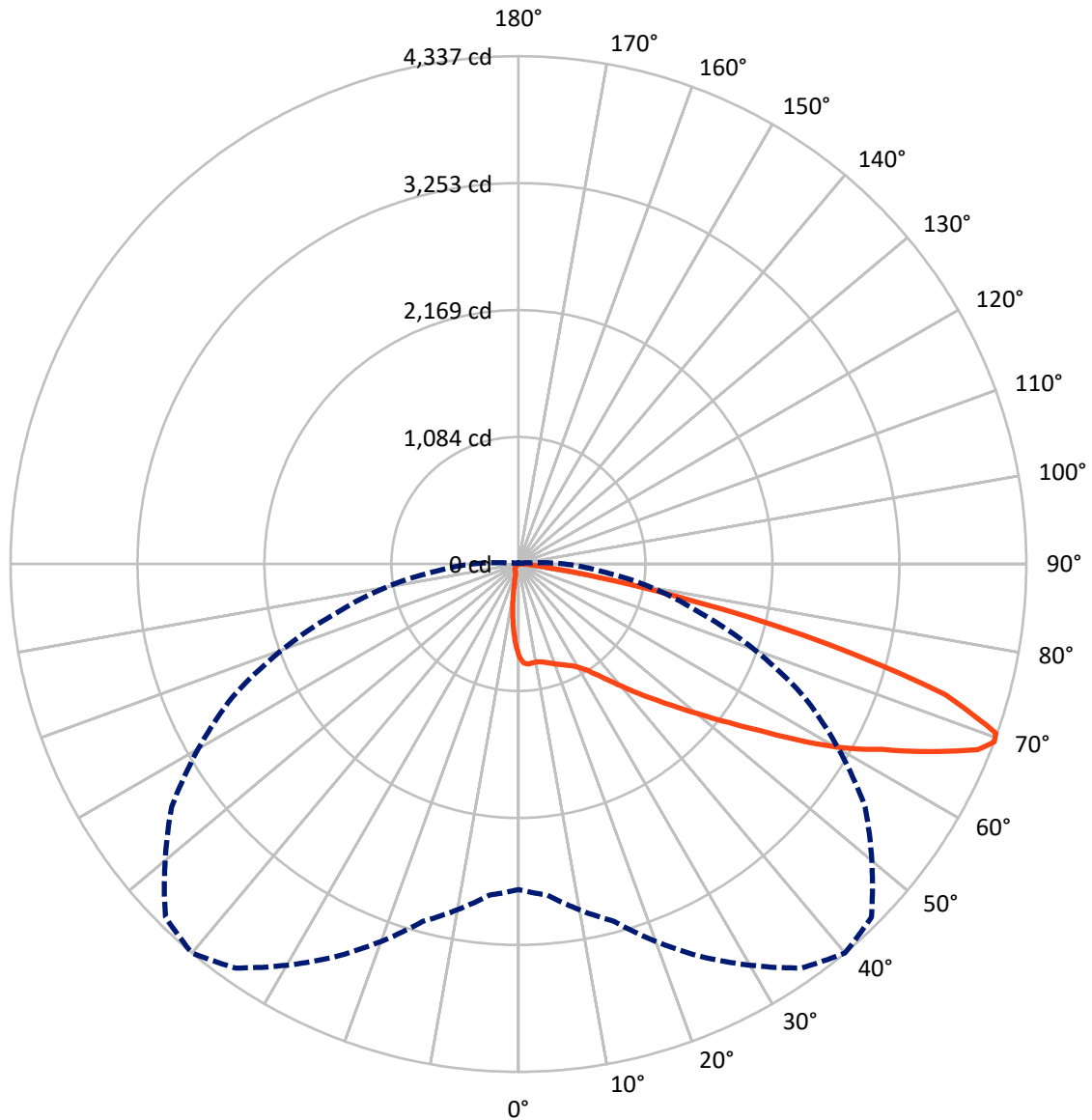
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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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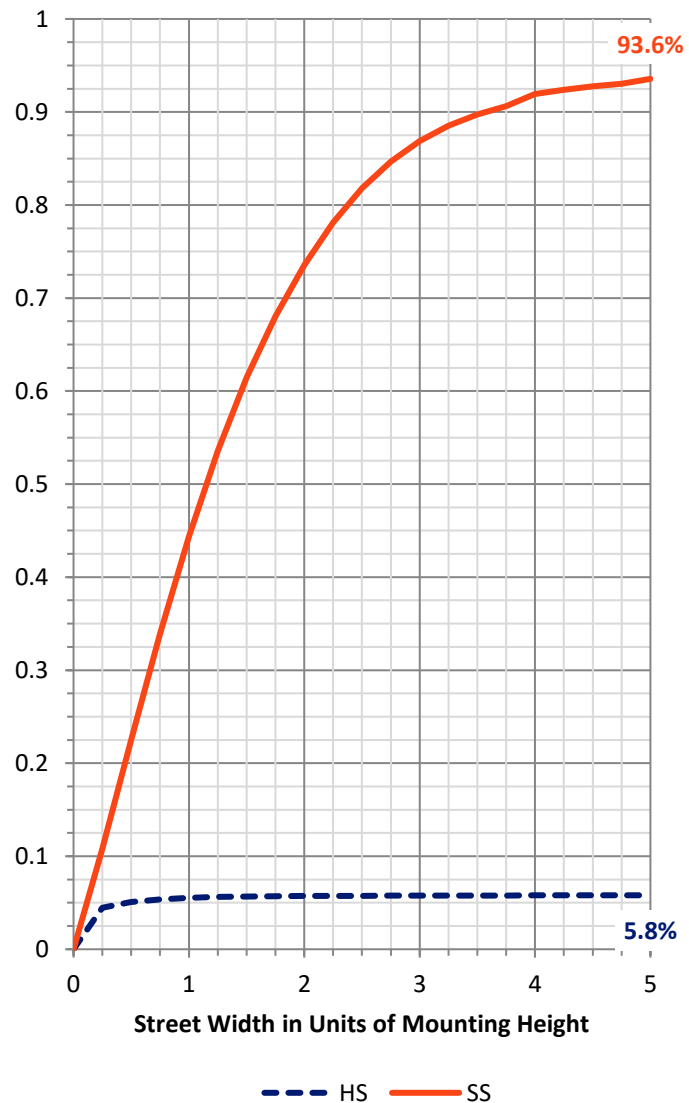
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	308.8	0.0	308.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4969.6	0.0	4969.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	5278.4	0.0	5278.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	157.2	3.0
20°-30°	264.9	5.0
30°-40°	433.6	8.2
40°-50°	750.7	14.2
50°-60°	1182.5	22.4
60°-70°	1544.3	29.3
70°-80°	795.4	15.1
80°-90°	86.0	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°	5278.4	100.0
0°-180°	5278.4	100.0



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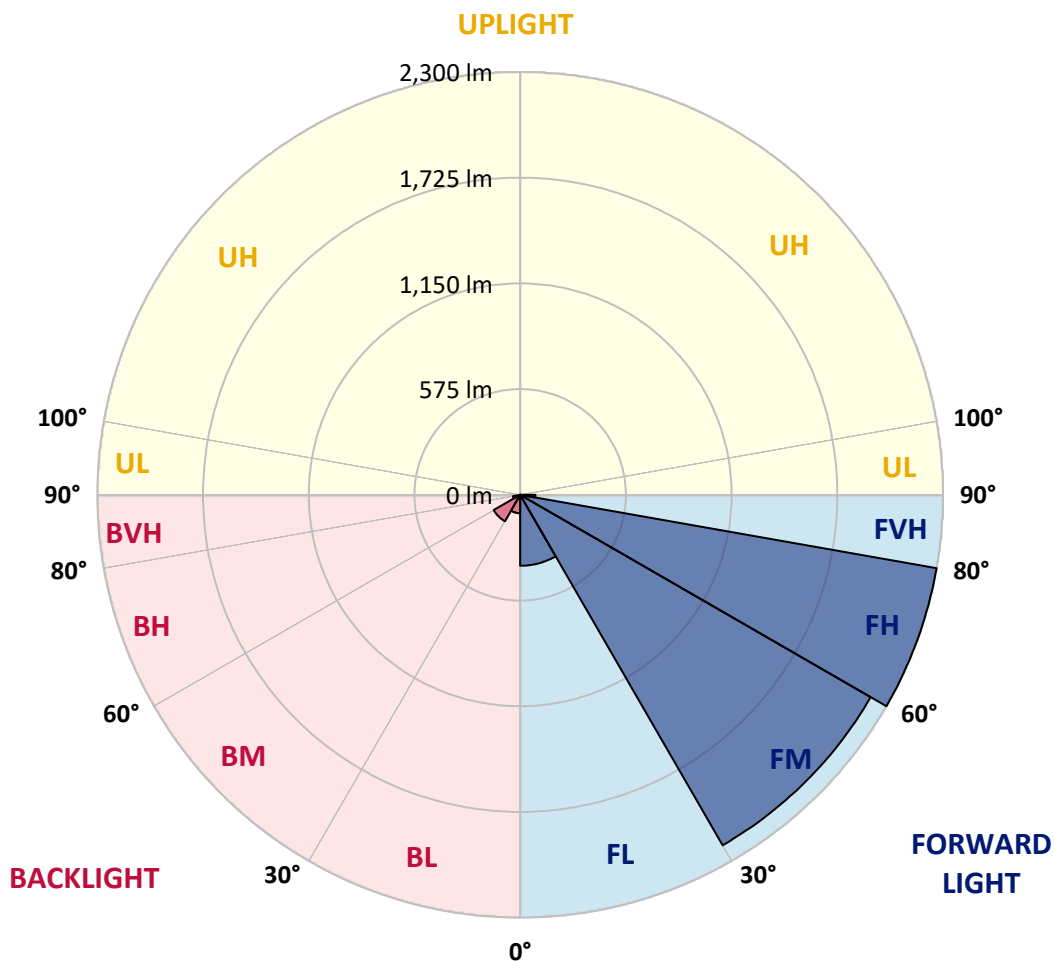
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.0	7.3			
FM	(30°-60°)	2200.8	41.7			
FH	(60°-80°)	2299.5	43.6			G2/5000
FVH	(80°-90°)	83.3	1.6			G1/100
BL	(0°-30°)	100.0	1.9	B0/110		
BM	(30°-60°)	166.0	3.1	B0/220		
BH	(60°-80°)	40.1	0.8	B0/110		G0/110
BVH	(80°-90°)	2.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
2.5°	865.9	861.2	858.4	854.6	849.9	845.8	844.2	832.6	821.6	806.5	789.2
5°	882.0	880.4	875.3	870.3	864.7	858.4	854.9	841.1	825.4	803.4	773.2
7.5°	883.5	881.6	875.3	868.4	860.6	853.0	847.1	833.2	818.8	796.5	759.7
10°	881.0	878.8	874.1	866.5	856.8	849.6	843.6	830.4	818.2	798.0	757.2
12.5°	878.2	876.0	873.8	870.0	861.5	856.5	851.5	838.9	827.9	810.9	766.3
15°	881.0	879.7	882.3	880.7	876.0	871.6	866.5	855.2	845.2	831.0	783.0
17.5°	892.9	892.9	900.8	901.7	897.3	891.1	883.8	872.5	864.0	852.1	802.8
20°	920.9	919.9	930.0	931.9	921.2	911.4	900.8	887.0	880.4	872.8	822.2
22.5°	968.9	964.5	970.6	968.6	947.6	932.5	919.3	902.3	898.9	895.5	843.9
25°	1031.5	1029.0	1033.1	1014.6	977.4	957.1	941.3	922.2	922.2	925.6	868.4
27.5°	1122.3	1112.9	1099.1	1066.3	1010.8	984.7	967.7	947.3	952.7	965.6	900.8
30°	1215.3	1204.9	1173.2	1122.9	1051.3	1024.0	1004.1	982.7	995.3	1019.0	944.2
32.5°	1307.0	1295.5	1250.5	1187.0	1109.4	1082.1	1062.9	1039.3	1060.4	1100.0	1007.6
35°	1395.9	1385.6	1333.7	1258.9	1186.7	1164.1	1146.5	1126.1	1153.1	1208.4	1097.1
37.5°	1495.9	1484.6	1421.4	1340.4	1280.6	1264.3	1251.5	1231.0	1278.2	1359.2	1221.9
40°	1618.7	1599.6	1514.4	1433.7	1389.4	1381.5	1372.7	1369.8	1443.1	1555.3	1388.1
42.5°	1759.5	1728.1	1611.8	1532.0	1508.8	1514.4	1512.2	1524.8	1649.5	1799.1	1590.5
45°	1900.2	1859.7	1720.2	1636.9	1640.1	1659.8	1672.1	1722.4	1908.1	2078.7	1808.2
47.5°	2019.6	1979.7	1824.2	1750.4	1788.1	1827.0	1860.3	1955.6	2173.9	2353.9	1977.6
50°	2121.7	2084.1	1934.5	1875.1	1960.0	2022.8	2076.8	2217.9	2459.8	2563.5	2096.3
52.5°	2205.3	2180.2	2048.9	2018.1	2156.3	2248.3	2327.5	2496.6	2713.1	2733.8	2188.7
55°	2286.7	2268.8	2171.7	2188.0	2387.0	2512.3	2612.5	2792.2	2931.1	2875.8	2277.3
57.5°	2380.3	2363.9	2311.9	2403.5	2690.2	2847.8	2957.1	3054.2	3123.1	3021.0	2360.9
60°	2475.8	2466.4	2467.7	2643.0	3038.3	3189.7	3250.0	3275.2	3311.6	3157.6	2365.6
62.5°	2567.0	2584.9	2645.9	2909.5	3371.6	3487.9	3518.3	3543.2	3500.4	3179.3	2185.5
65°	2721.3	2750.4	2895.9	3266.1	3738.3	3862.7	3894.1	3809.0	3530.3	2899.0	1777.7
67.5°	2796.6	2850.0	3109.6	3598.4	4094.0	4232.2	4220.6	3826.2	3168.0	2210.7	1140.8
69°	2780.9	2837.8	3158.9	3700.2	4212.1	4337.4	4263.6	3614.8	2699.0	1601.4	700.3
70°	2718.7	2776.2	3133.4	3696.4	4227.1	4326.5	4183.8	3353.7	2282.0	1171.0	438.0
72.5°	2270.3	2320.0	2781.8	3341.2	3894.1	3813.4	3500.1	2323.4	1111.9	319.0	98.6
75°	1397.6	1425.2	1996.1	2517.0	2941.2	2733.8	2331.9	1155.9	331.4	90.2	54.6
77.5°	738.4	750.9	1092.7	1483.6	1864.4	1542.7	1195.2	450.9	152.7	56.6	39.6
80°	436.4	445.8	588.5	678.3	806.8	673.9	477.9	276.8	109.4	35.5	35.2
82.5°	249.8	255.7	426.7	377.1	317.9	271.5	237.8	262.4	65.7	23.8	36.4
85°	91.8	93.0	240.1	286.8	189.1	112.5	118.2	217.4	17.6	15.0	28.6
87.5°	42.8	41.8	123.5	175.6	110.6	71.3	92.1	47.8	7.0	9.7	7.9
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°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
2.5°	779.2	767.6	746.5	724.9	702.9	685.9	669.2	656.0	651.6	643.4	644.0
5°	755.3	734.0	690.0	645.4	598.8	560.5	524.4	495.2	481.0	466.6	466.6
7.5°	734.6	703.5	634.6	562.1	487.0	423.8	366.9	324.3	300.6	281.8	281.5
10°	726.7	684.7	588.5	484.5	379.8	293.8	226.2	182.9	160.6	146.1	145.5
12.5°	730.2	678.0	553.0	412.9	281.5	188.8	131.0	103.0	93.6	89.2	89.2
15°	740.2	676.2	517.5	342.8	198.9	118.2	87.1	79.5	78.9	78.9	78.9
17.5°	752.5	676.8	481.0	274.6	135.4	84.5	75.1	74.2	74.8	74.8	74.8
20°	765.1	677.1	441.7	211.4	95.5	73.6	70.7	70.4	71.0	71.0	71.3
22.5°	780.4	678.6	402.5	158.0	78.9	69.5	67.2	67.2	67.5	67.5	67.2
25°	798.0	681.8	361.6	117.2	71.9	66.6	64.8	64.4	64.8	64.4	64.1
27.5°	820.0	686.2	316.1	91.8	68.8	63.8	62.2	62.2	61.9	61.6	61.3
30°	847.7	691.2	264.8	77.9	65.7	61.3	59.7	59.4	59.0	58.4	58.4
32.5°	889.8	702.3	214.3	70.7	62.2	57.8	56.6	56.6	56.0	55.3	55.0
35°	954.5	723.9	169.0	66.3	58.4	54.0	52.5	52.5	51.9	51.6	51.2
37.5°	1044.0	756.9	131.3	62.2	54.6	49.9	48.4	48.1	47.5	46.9	46.5
40°	1163.1	797.7	103.4	58.4	50.9	45.8	44.6	44.0	42.8	41.8	41.8
42.5°	1312.7	844.2	83.9	54.3	46.5	42.1	41.1	40.2	38.1	37.0	36.7
45°	1469.2	886.0	71.0	49.6	42.1	38.4	37.7	36.1	33.3	32.3	32.3
47.5°	1582.0	895.8	62.5	45.2	38.1	34.3	34.0	31.1	28.6	27.9	27.6
50°	1652.4	876.6	55.6	40.8	34.3	30.5	29.6	26.1	24.6	23.8	23.5
52.5°	1699.7	842.4	49.9	37.0	30.8	27.0	24.9	22.3	21.1	20.5	20.5
55°	1737.8	794.0	44.3	33.7	27.9	24.2	21.1	19.1	17.9	17.3	17.3
57.5°	1748.5	728.3	38.7	30.8	25.2	21.4	17.9	16.7	15.0	14.7	14.7
60°	1670.9	609.9	34.3	27.3	22.6	18.5	15.8	14.1	12.6	12.3	12.0
62.5°	1466.3	471.9	30.2	24.2	19.8	16.1	13.5	11.7	10.3	10.3	10.3
65°	1118.5	316.4	26.4	21.1	17.3	13.5	11.7	9.4	8.8	8.8	9.1
67.5°	669.5	172.2	22.6	17.9	14.7	11.4	9.7	8.2	7.9	8.2	8.2
69°	392.4	101.2	20.5	16.1	12.9	10.0	8.5	7.3	7.9	8.2	8.2
70°	242.2	68.2	18.8	14.4	11.7	9.1	7.9	7.0	7.6	7.9	7.9
72.5°	67.5	35.2	15.0	11.4	9.4	7.6	6.2	6.2	7.3	7.6	7.6
75°	44.0	26.1	11.7	8.5	7.3	5.9	5.3	5.9	7.0	7.3	7.3
77.5°	36.4	21.4	9.4	7.0	5.9	5.6	5.0	5.3	6.2	6.6	6.6
80°	33.3	15.0	7.6	6.2	5.3	5.0	4.7	4.4	5.6	5.9	5.9
82.5°	31.7	12.0	6.6	5.6	5.0	4.4	4.1	4.4	5.0	5.3	5.6
85°	19.8	7.9	5.9	5.3	4.4	4.1	4.1	4.1	4.7	5.0	5.0
87.5°	7.3	6.2	5.3	4.4	3.8	3.8	3.8	3.8	4.1	4.7	4.7
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)