

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: P200605

Luminaire Tested: **GPC-AF-01-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200605  
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-01-LED-E1-SL3-8030-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE 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: 3581 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

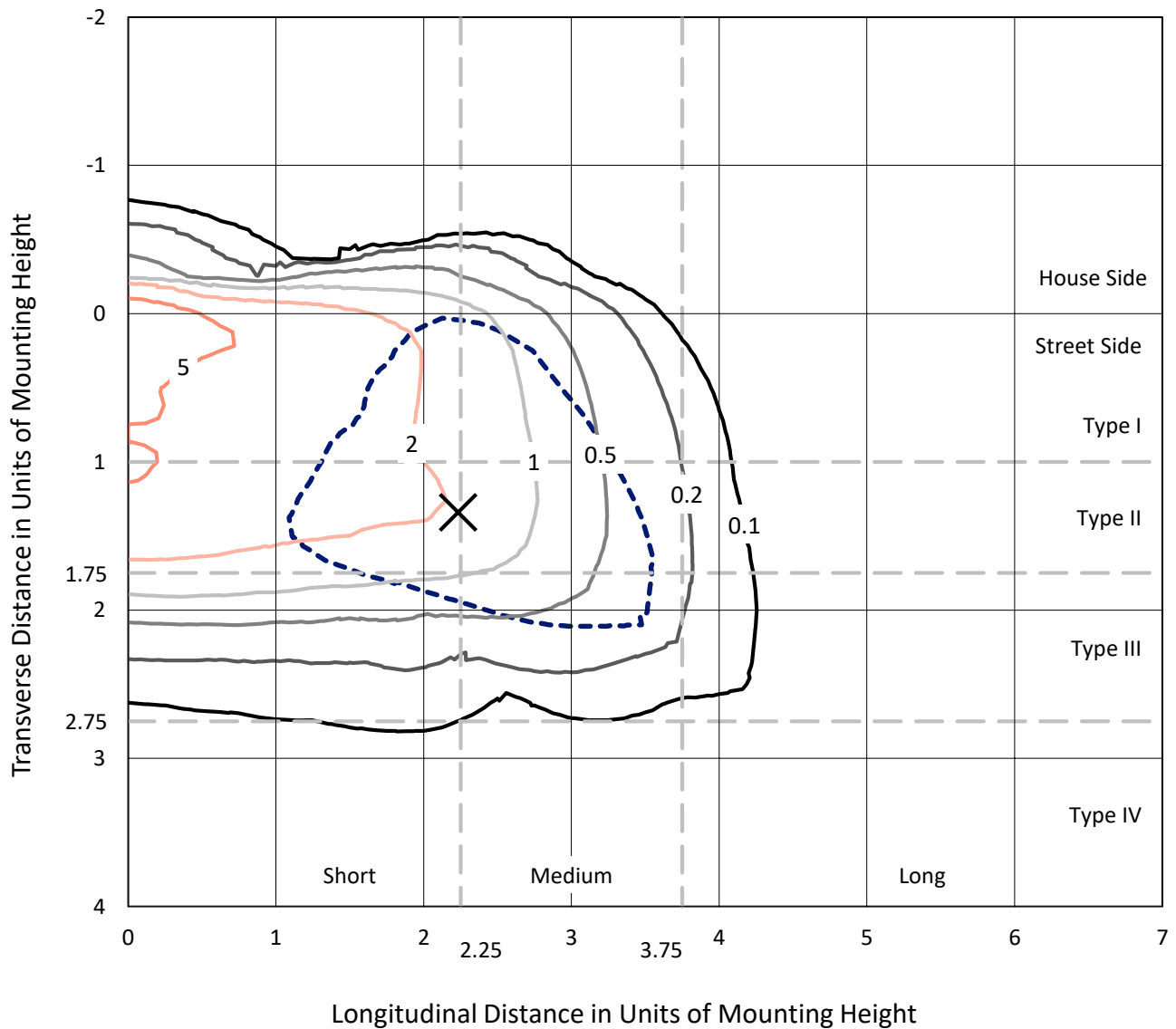
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P200605  
 CATALOG NUMBER: GPC-AF-01-LED-E1-SL3-8030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

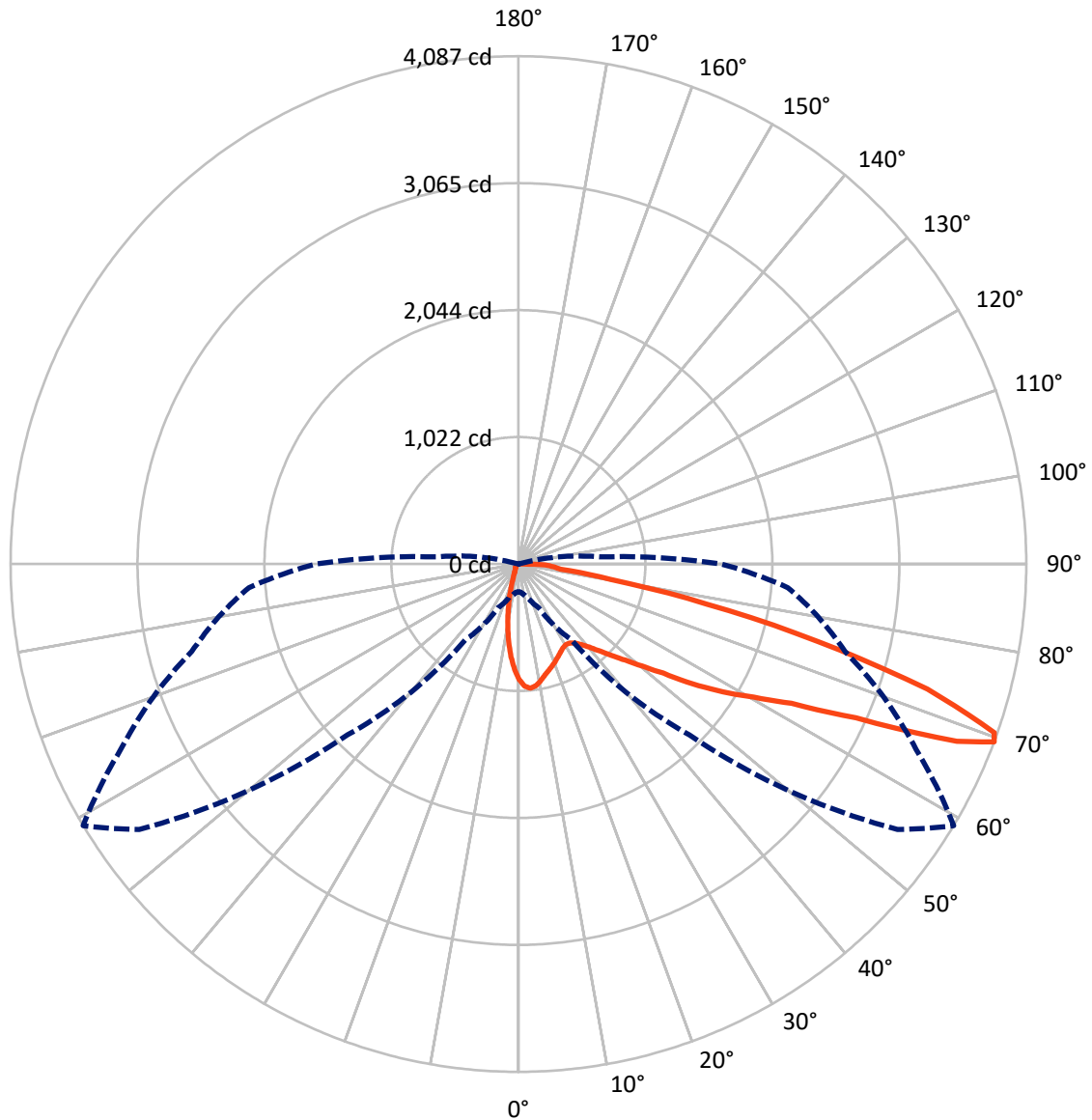
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P200605  
CATALOG NUMBER: GPC-AF-01-LED-E1-SL3-8030-800-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P200605

CATALOG NUMBER: GPC-AF-01-LED-E1-SL3-8030-800-HSS

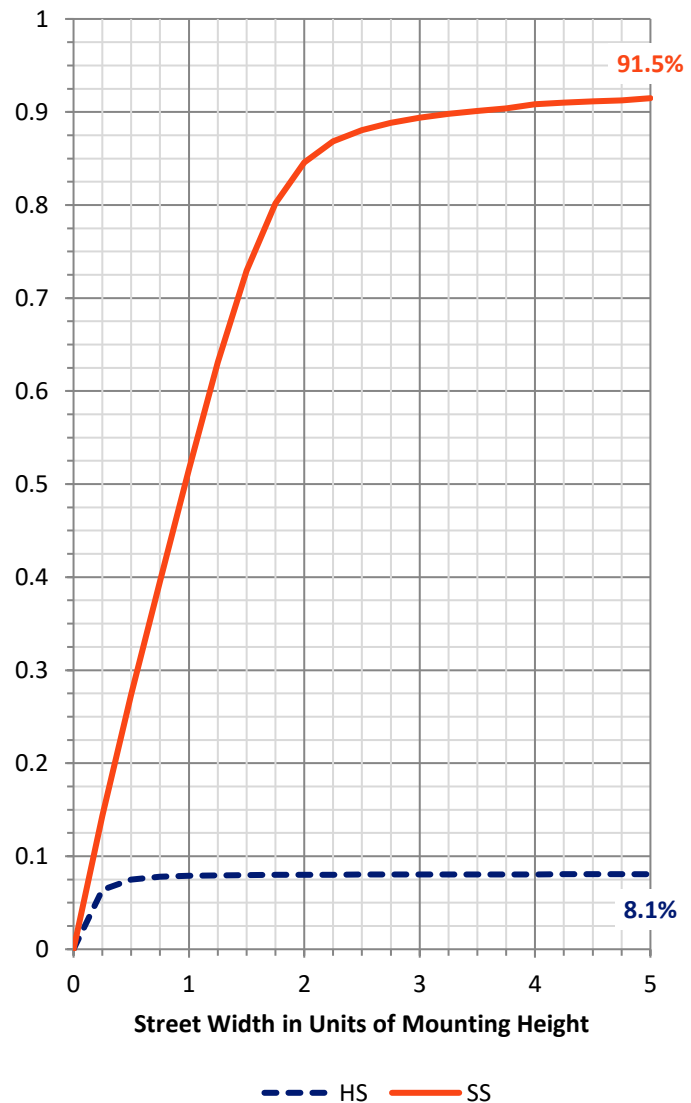
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	291.6	0.0	291.6
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	3289.4	0.0	3289.4
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	3581.0	0.0	3581.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	2.1
10°-20°	156.3	4.4
20°-30°	210.4	5.9
30°-40°	305.4	8.5
40°-50°	508.6	14.2
50°-60°	793.4	22.2
60°-70°	981.7	27.4
70°-80°	497.5	13.9
80°-90°	52.0	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°	3581.0	100.0
0°-180°	3581.0	100.0



REPORT NUMBER: P200605

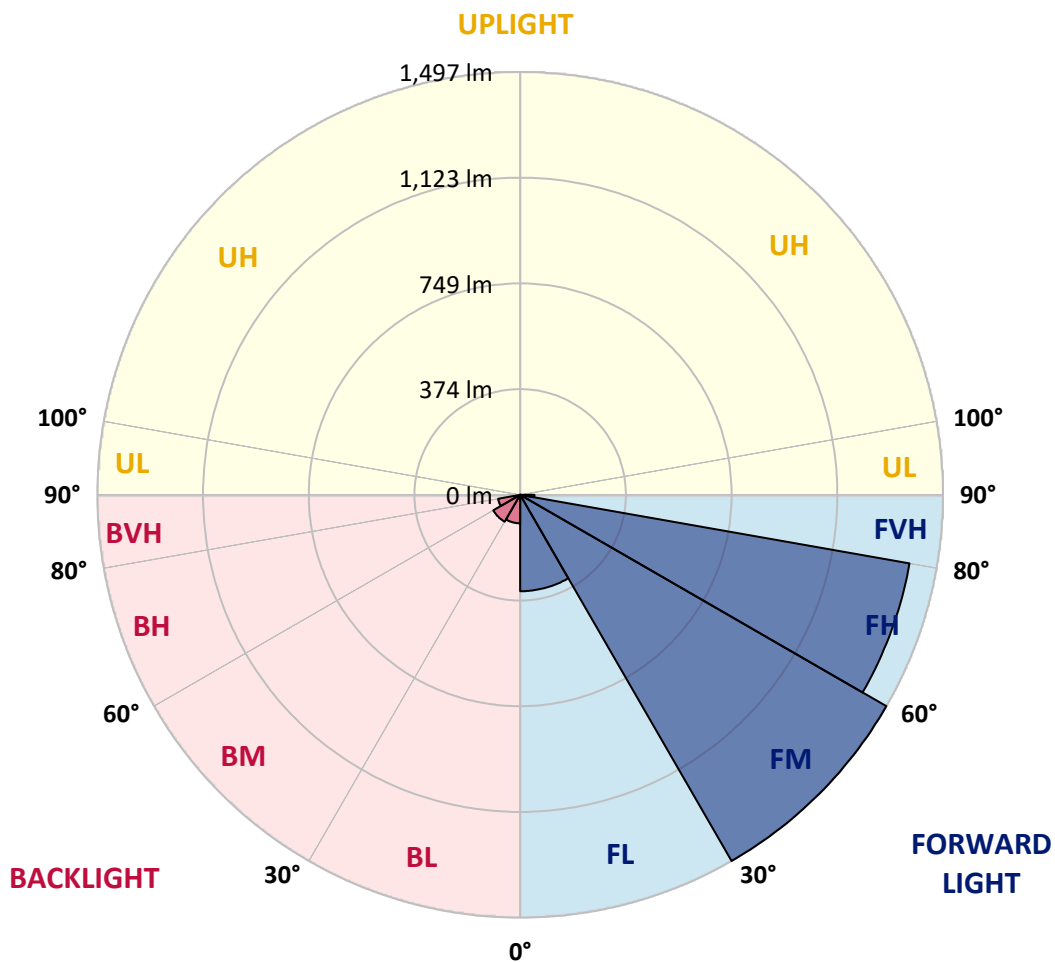
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.4	9.5			
FM	(30°-60°)	1497.5	41.8			
FH	(60°-80°)	1400.0	39.1			G1/1800
FVH	(80°-90°)	50.5	1.4			G1/100
BL	(0°-30°)	100.9	2.8	B0/110		
BM	(30°-60°)	109.9	3.1	B0/220		
BH	(60°-80°)	79.2	2.2	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





REPORT NUMBER: P200605

CATALOG NUMBER: GPC-AF-01-LED-E1-SL3-8030-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1
2.5°	1021.6	1021.2	1016.7	1014.7	1011.1	1003.4	991.4	985.1	975.0	957.4	933.7
5°	1012.3	1017.1	1019.8	1020.0	1022.6	1019.8	1009.0	1003.8	989.8	961.4	918.9
7.5°	949.1	950.9	958.4	964.9	977.4	989.4	993.2	991.0	982.7	952.3	895.8
10°	881.5	883.3	892.2	900.7	917.7	936.1	955.6	959.6	963.1	939.4	873.6
12.5°	823.1	825.0	834.1	845.2	865.1	887.7	917.9	924.6	939.8	927.0	855.7
15°	772.9	773.7	782.6	796.4	820.1	849.3	883.5	894.2	917.5	918.3	840.2
17.5°	730.2	732.2	737.7	750.9	776.8	812.8	852.7	868.1	895.4	911.0	825.0
20°	704.1	706.1	705.9	713.2	736.5	774.9	821.9	840.4	873.6	903.5	811.4
22.5°	699.0	699.0	693.7	692.7	706.5	738.7	789.9	812.4	853.9	900.3	801.9
25°	717.0	716.2	703.1	692.3	692.9	712.2	759.0	785.7	837.3	902.5	796.8
27.5°	755.1	754.1	737.5	717.0	700.6	700.4	735.5	764.2	824.2	913.1	798.8
30°	807.8	807.3	789.3	763.6	733.8	706.5	727.4	753.5	815.7	932.1	803.5
32.5°	865.3	864.7	851.1	824.0	786.3	733.8	735.9	757.7	818.1	957.4	814.8
35°	926.2	925.2	919.3	895.6	854.1	784.3	763.8	780.8	833.5	995.3	837.1
37.5°	992.2	993.2	997.5	974.8	931.3	854.9	810.6	822.1	864.5	1046.7	873.4
40°	1089.6	1089.4	1090.8	1061.1	1019.2	941.4	876.0	879.6	916.3	1114.9	928.4
42.5°	1266.4	1254.1	1216.6	1155.8	1113.7	1040.2	958.4	954.6	979.7	1199.4	1005.6
45°	1503.9	1477.6	1380.4	1264.0	1210.1	1151.6	1059.9	1047.5	1063.5	1300.8	1100.8
47.5°	1708.2	1680.9	1543.4	1376.6	1312.4	1257.3	1178.7	1156.4	1161.7	1414.4	1221.5
50°	1777.7	1764.3	1644.3	1474.6	1411.4	1390.3	1316.6	1289.5	1282.0	1545.8	1361.4
52.5°	1753.6	1752.6	1672.6	1538.2	1502.1	1528.0	1490.2	1458.8	1431.2	1684.4	1503.7
55°	1714.9	1720.0	1684.2	1593.8	1592.6	1653.8	1727.5	1701.4	1621.6	1834.8	1626.4
57.5°	1608.2	1629.9	1677.7	1699.1	1748.9	1811.5	1925.1	1940.5	1846.1	1950.0	1728.3
60°	1304.9	1352.5	1508.8	1714.3	1950.4	2106.4	2163.7	2176.8	2030.4	2045.8	1865.8
62.5°	926.2	974.8	1173.1	1520.7	1953.5	2493.7	2519.0	2467.4	2233.3	2187.8	2102.9
65°	491.7	529.1	691.1	1097.7	1693.7	2583.6	3140.5	2986.6	2591.3	2467.0	2409.3
67.5°	251.5	262.8	327.2	537.2	1164.3	2294.9	3697.6	3805.9	3208.3	2744.0	2394.5
69°	222.5	229.2	272.0	388.4	745.6	1943.8	3724.7	4087.2	3531.3	2720.9	2176.0
70°	215.5	221.3	260.2	351.5	582.8	1630.1	3620.8	4062.5	3613.9	2633.0	2012.8
72.5°	182.9	187.9	231.7	310.6	473.6	809.2	2941.2	3442.4	3243.0	2193.4	1457.0
75°	122.3	138.9	222.3	291.2	440.6	459.7	1939.1	2487.7	2310.9	1479.4	759.0
77.5°	29.4	31.6	62.8	231.7	403.0	404.6	997.3	1546.5	1261.3	527.3	179.4
80°	15.8	15.2	17.6	46.0	375.2	379.7	448.9	750.6	450.3	87.5	59.1
82.5°	11.1	10.5	11.3	19.2	118.1	345.9	324.8	339.8	186.7	33.6	26.5
85°	4.0	3.8	6.3	17.4	37.1	198.9	333.7	280.3	151.3	15.4	19.4
87.5°	1.4	1.2	2.4	9.5	11.3	84.6	205.9	211.8	59.5	9.3	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200605

CATALOG NUMBER: GPC-AF-01-LED-E1-SL3-8030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1	932.1
2.5°	923.8	911.2	888.1	864.5	842.6	816.3	803.1	790.1	784.7	782.6	773.1
5°	897.1	875.8	826.8	777.6	732.2	684.0	652.2	626.7	611.7	604.4	592.9
7.5°	862.8	828.0	753.7	677.8	607.1	537.4	485.8	446.1	418.8	405.6	393.7
10°	829.6	783.3	677.5	574.1	478.1	385.8	314.5	262.8	229.8	214.6	204.9
12.5°	799.9	739.7	604.0	473.0	352.5	244.4	171.9	130.8	110.4	103.3	99.8
15°	773.3	699.6	534.6	377.0	238.7	139.7	94.0	80.0	76.7	76.7	76.3
17.5°	748.2	660.3	467.6	286.9	149.8	85.5	71.5	69.7	69.7	70.5	70.5
20°	724.1	622.9	402.8	205.9	94.4	67.8	64.6	64.2	64.6	65.6	65.6
22.5°	703.5	588.9	342.2	141.3	70.1	61.2	59.5	58.9	59.1	59.7	60.1
25°	688.1	560.1	285.1	95.8	60.3	55.7	53.9	52.9	52.0	52.0	52.4
27.5°	678.4	535.8	229.8	69.7	54.3	50.6	47.8	46.2	44.3	43.3	43.7
30°	671.3	512.7	178.0	56.9	48.6	45.0	41.3	38.7	36.0	34.8	35.2
32.5°	668.6	494.1	133.0	50.2	43.5	39.5	35.0	31.6	28.8	27.7	27.9
35°	675.7	479.3	97.4	45.4	39.5	34.4	29.4	25.5	23.3	22.7	22.9
37.5°	694.4	471.4	72.9	41.3	35.8	30.2	24.5	20.9	19.4	19.4	19.6
40°	729.6	471.2	58.5	38.5	32.6	26.1	20.2	17.6	16.8	17.2	17.4
42.5°	781.0	481.9	51.0	35.8	29.8	22.3	16.8	15.0	14.8	15.2	15.4
45°	851.3	501.6	47.0	33.6	26.7	18.6	14.2	13.0	13.0	13.6	13.8
47.5°	937.3	530.3	43.5	31.4	23.7	15.6	12.1	11.3	11.5	12.1	12.4
50°	1041.0	566.6	40.1	29.0	21.5	13.0	10.5	9.9	10.1	10.9	11.1
52.5°	1159.1	615.4	37.3	26.7	18.6	10.7	8.9	8.5	8.9	9.7	9.9
55°	1260.3	659.1	33.8	24.9	15.0	8.9	7.3	7.3	7.7	8.7	8.9
57.5°	1357.7	704.9	30.8	21.5	11.7	7.1	6.1	6.3	6.9	7.9	8.1
60°	1500.7	782.4	27.1	18.0	8.9	5.7	5.1	5.3	6.1	7.1	7.3
62.5°	1743.5	900.5	23.5	15.0	6.9	4.5	4.0	4.5	5.5	6.7	6.9
65°	1962.6	948.5	19.2	12.6	5.3	3.4	3.4	4.0	5.3	6.5	6.7
67.5°	1840.5	798.4	15.0	9.9	4.0	2.6	2.8	3.8	5.1	6.5	6.7
69°	1627.7	652.8	12.8	7.9	3.4	2.4	2.6	3.8	5.1	6.3	6.5
70°	1461.8	551.2	11.3	6.7	3.0	2.4	2.6	3.6	5.1	6.3	6.5
72.5°	979.1	297.7	9.1	4.9	2.8	2.2	2.2	3.6	4.9	6.1	6.3
75°	420.8	82.2	7.3	3.4	2.4	2.0	2.0	3.4	4.7	5.9	6.3
77.5°	76.9	20.9	5.9	3.0	2.4	2.0	1.8	3.2	4.5	5.7	5.9
80°	30.6	10.3	4.7	2.6	2.2	1.8	1.6	3.0	4.3	5.5	5.7
82.5°	18.4	5.9	3.8	2.4	2.2	1.6	1.4	2.6	4.0	5.3	5.5
85°	15.0	4.0	3.0	2.4	2.0	1.6	1.2	2.4	3.6	5.1	5.3
87.5°	7.3	2.8	2.8	2.2	2.0	1.6	1.2	2.2	3.4	4.9	5.1
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)