

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: P199981

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199981  
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: GWC-AF-01-LED-E1-SL4-7030-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 3963.3 lumens  
Efficiency: N/A  
Efficacy: 90.1 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 - 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

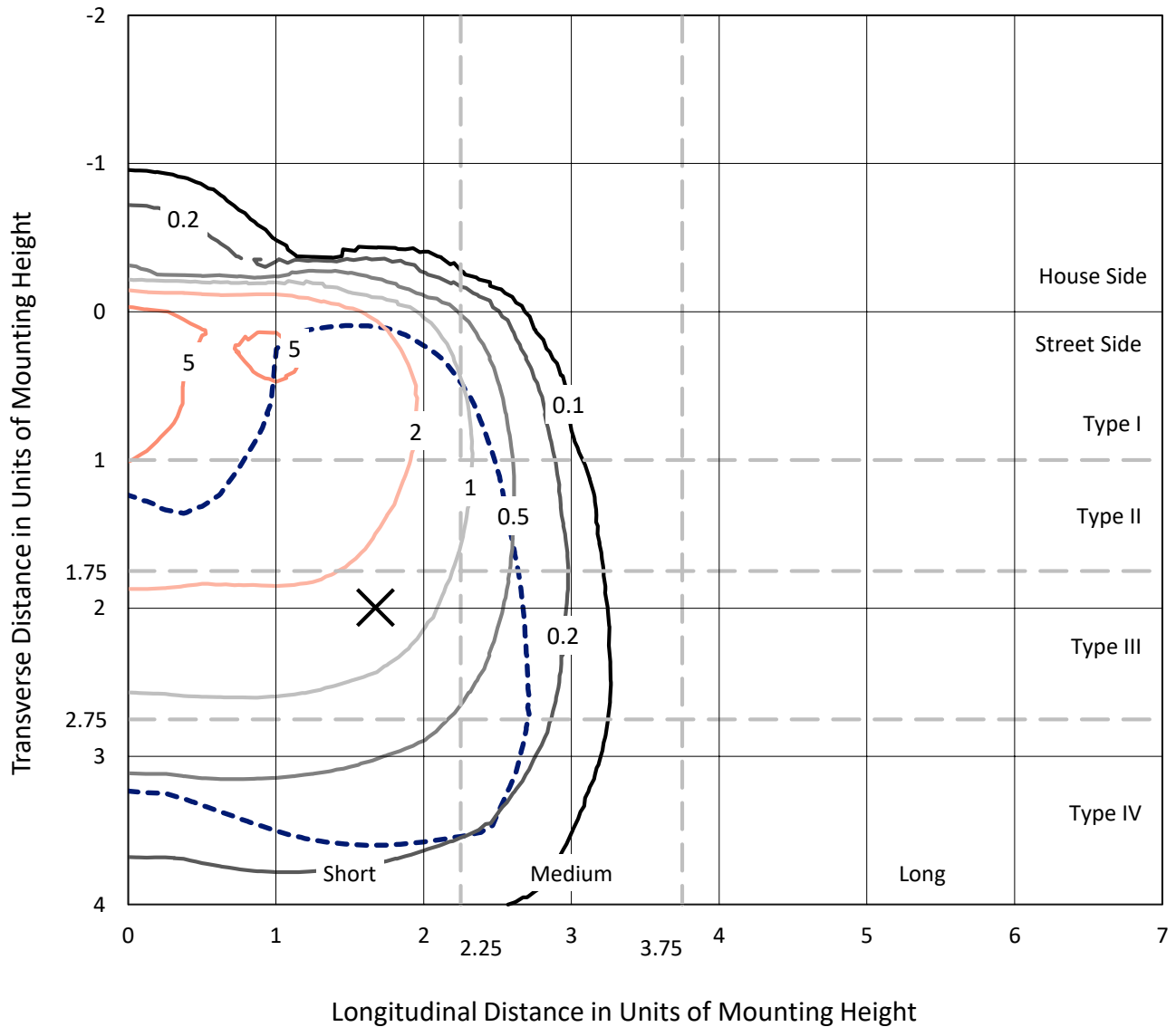


REPORT NUMBER: P199981

CATALOG NUMBER: GWC-AF-01-LED-E1-SL4-7030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

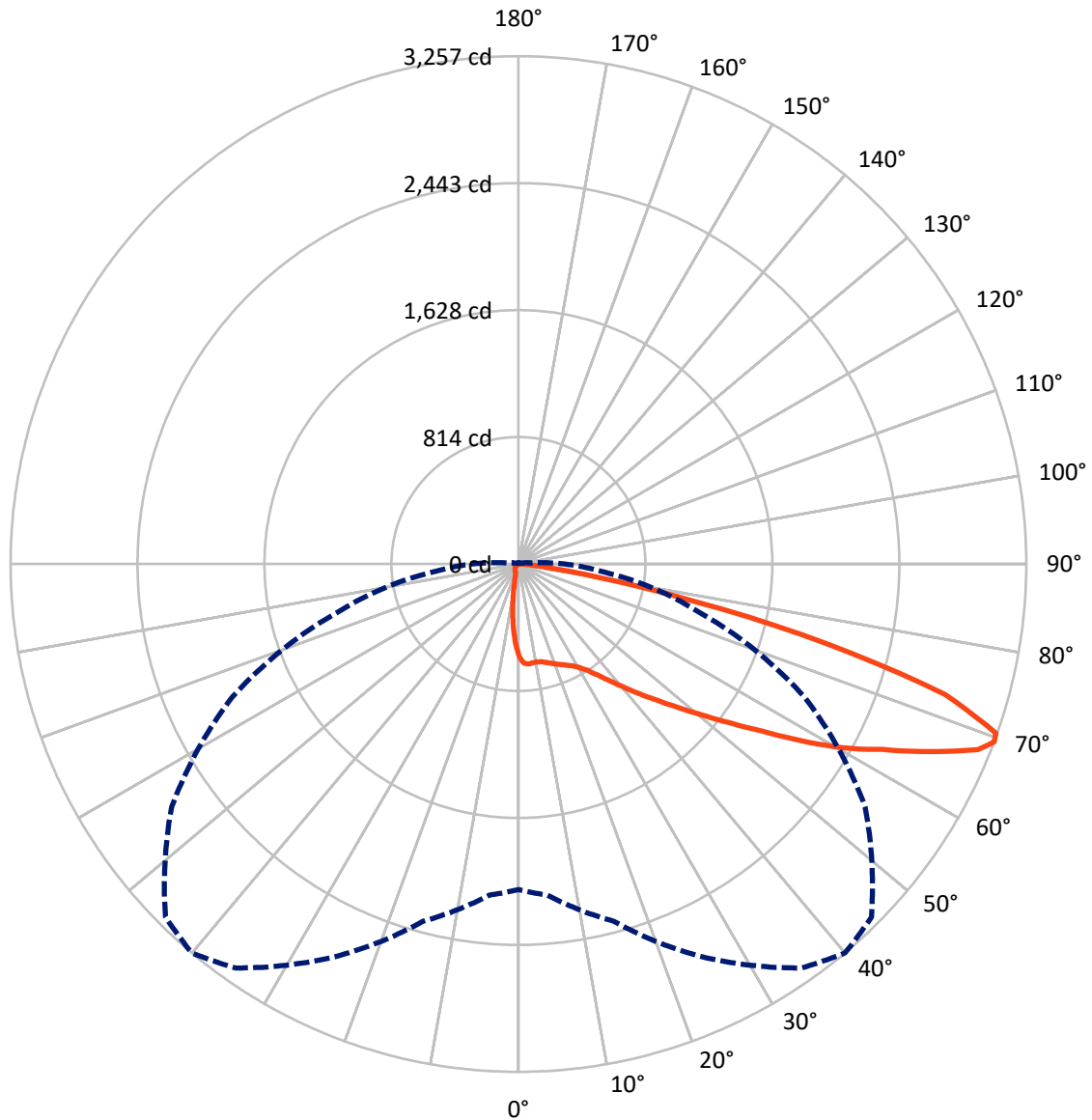


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P199981

CATALOG NUMBER: GWC-AF-01-LED-E1-SL4-7030-800-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P199981

CATALOG NUMBER: GWC-AF-01-LED-E1-SL4-7030-800-HSS

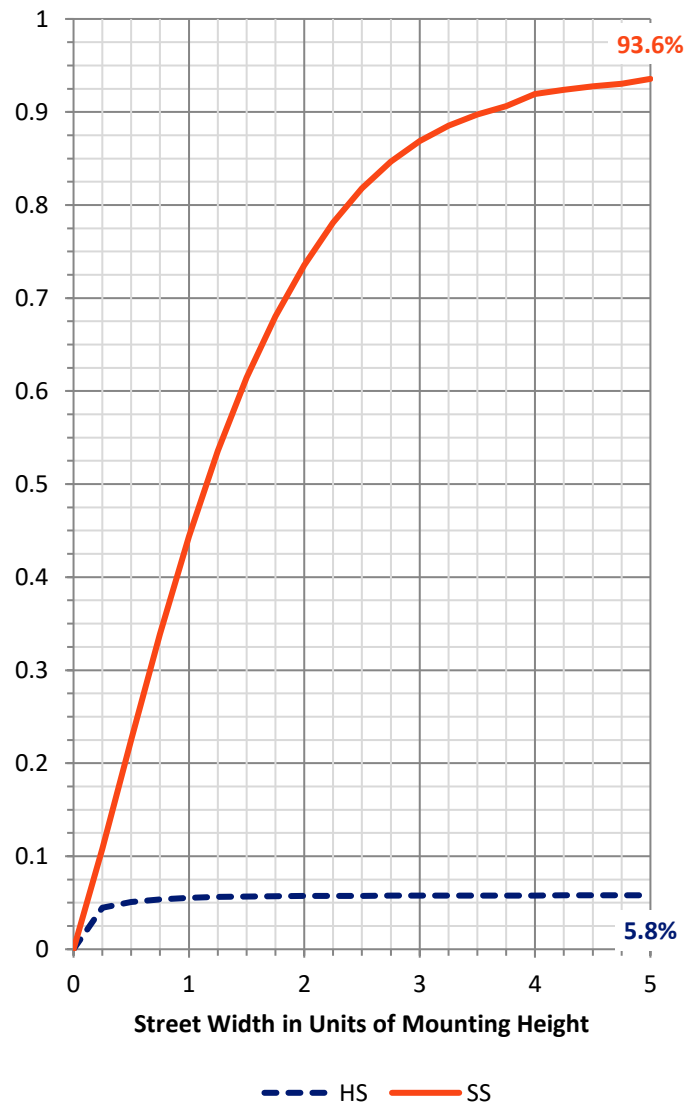
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	231.9	0.0	231.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	3731.5	0.0	3731.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	3963.3	0.0	3963.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.2
10°-20°	118.1	3.0
20°-30°	198.9	5.0
30°-40°	325.6	8.2
40°-50°	563.7	14.2
50°-60°	887.9	22.4
60°-70°	1159.5	29.3
70°-80°	597.2	15.1
80°-90°	64.6	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°	3963.3	100.0
0°-180°	3963.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P199981

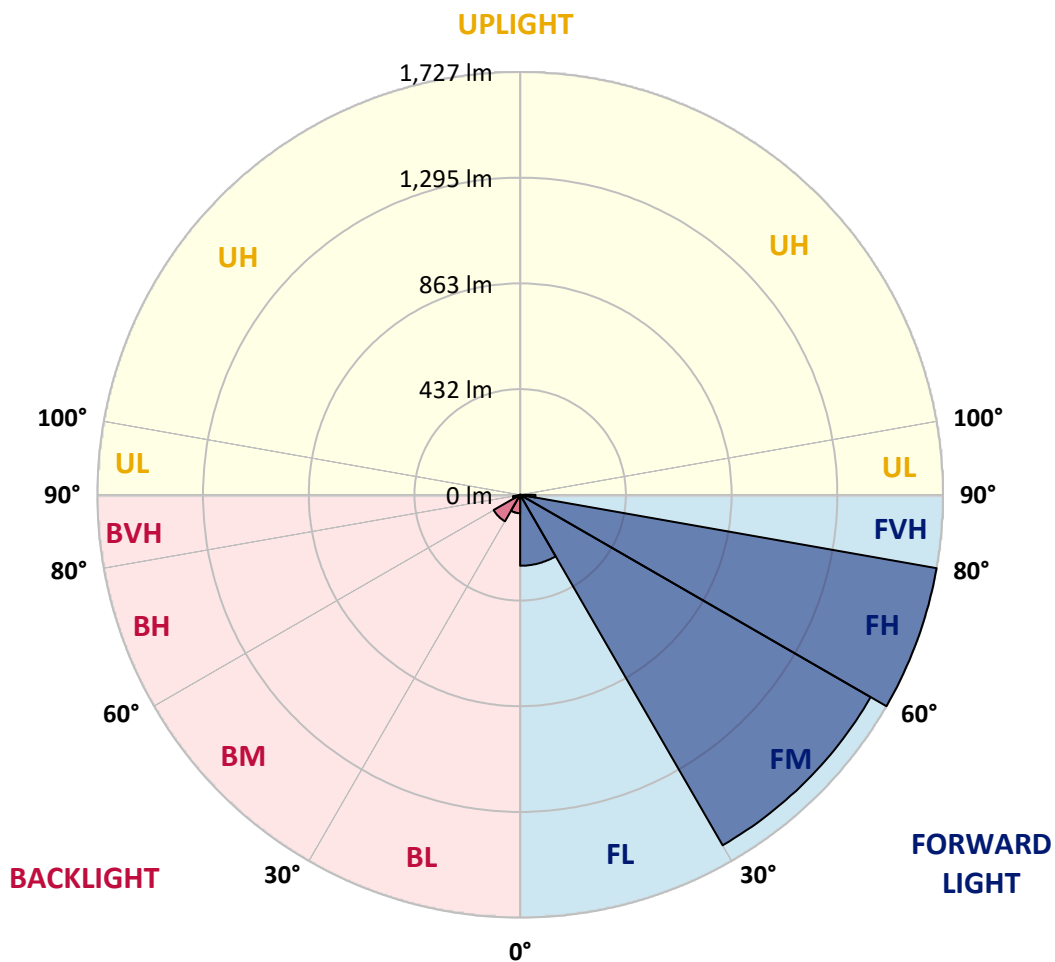
CATALOG NUMBER: GWC-AF-01-LED-E1-SL4-7030-800-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.8	7.3			
FM (30°-60°)	1652.5	41.7			
FH (60°-80°)	1726.6	43.6			G1/1800
FVH (80°-90°)	62.6	1.6			G1/100
BL (0°-30°)	75.1	1.9	B0/110		
BM (30°-60°)	124.6	3.1	B0/220		
BH (60°-80°)	30.1	0.8	B0/110		G0/110
BVH (80°-90°)	2.0	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-G1**

Type IV Short





REPORT NUMBER: P199981

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	650.1	646.6	644.6	641.7	638.1	635.1	633.9	625.2	616.9	605.6	592.6
5°	662.2	661.0	657.2	653.5	649.3	644.6	641.9	631.6	619.7	603.2	580.5
7.5°	663.3	662.0	657.2	652.1	646.2	640.5	636.1	625.6	614.8	598.0	570.4
10°	661.5	659.8	656.3	650.7	643.4	637.9	633.4	623.5	614.4	599.2	568.5
12.5°	659.4	657.8	656.0	653.3	646.9	643.0	639.3	629.8	621.7	608.9	575.4
15°	661.5	660.6	662.5	661.3	657.8	654.4	650.7	642.2	634.6	624.0	587.9
17.5°	670.4	670.4	676.3	677.1	673.8	669.0	663.7	655.1	648.7	639.8	602.8
20°	691.5	690.7	698.3	699.8	691.7	684.4	676.3	666.0	661.0	655.4	617.4
22.5°	727.6	724.2	728.8	727.4	711.5	700.2	690.3	677.5	674.9	672.4	633.7
25°	774.5	772.6	775.7	761.7	733.9	718.6	706.8	692.5	692.5	695.0	652.1
27.5°	842.7	835.6	825.2	800.7	758.9	739.4	726.6	711.3	715.3	725.0	676.3
30°	912.5	904.7	880.8	843.1	789.3	768.8	754.0	737.9	747.3	765.1	708.9
32.5°	981.4	972.7	939.0	891.3	833.1	812.5	798.1	780.4	796.2	826.0	756.6
35°	1048.2	1040.3	1001.5	945.3	891.1	874.1	860.9	845.5	865.8	907.3	823.8
37.5°	1123.2	1114.7	1067.3	1006.4	961.6	949.3	939.6	924.3	959.7	1020.6	917.5
40°	1215.4	1201.0	1137.1	1076.4	1043.2	1037.3	1030.7	1028.5	1083.5	1167.7	1042.3
42.5°	1321.1	1297.5	1210.3	1150.3	1132.8	1137.1	1135.4	1144.9	1238.5	1350.9	1194.2
45°	1426.8	1396.4	1291.6	1229.1	1231.4	1246.4	1255.5	1293.3	1432.7	1560.8	1357.6
47.5°	1516.5	1486.5	1369.7	1314.2	1342.6	1371.8	1396.8	1468.4	1632.3	1767.5	1484.8
50°	1593.2	1564.8	1452.5	1407.9	1471.6	1518.8	1559.3	1665.4	1847.0	1924.8	1574.1
52.5°	1655.9	1637.0	1538.4	1515.3	1619.1	1688.2	1747.6	1874.6	2037.1	2052.7	1643.3
55°	1717.0	1703.5	1630.7	1642.9	1792.2	1886.4	1961.6	2096.6	2200.9	2159.3	1709.9
57.5°	1787.3	1775.0	1735.8	1804.8	2019.9	2138.3	2220.4	2293.4	2345.0	2268.3	1772.7
60°	1859.0	1851.9	1852.9	1984.5	2281.3	2395.0	2440.3	2459.2	2486.5	2370.9	1776.2
62.5°	1927.4	1940.9	1986.6	2184.6	2531.6	2618.9	2641.8	2660.4	2628.3	2387.2	1641.0
65°	2043.2	2065.2	2174.5	2452.3	2806.9	2900.3	2924.0	2859.9	2650.7	2176.7	1334.8
67.5°	2099.8	2140.0	2334.8	2701.9	3074.0	3177.8	3169.1	2872.9	2378.8	1659.9	856.6
69°	2088.1	2130.7	2371.9	2778.3	3162.6	3256.8	3201.4	2714.2	2026.5	1202.4	525.9
70°	2041.4	2084.6	2352.8	2775.5	3174.0	3248.5	3141.5	2518.2	1713.5	879.2	328.9
72.5°	1704.7	1741.9	2088.8	2508.7	2924.0	2863.3	2628.0	1744.6	834.9	239.4	74.1
75°	1049.4	1070.1	1498.8	1889.9	2208.4	2052.7	1751.0	868.0	248.9	67.7	41.0
77.5°	554.4	563.8	820.5	1114.0	1399.9	1158.3	897.4	338.5	114.6	42.4	29.8
80°	327.7	334.8	441.9	509.3	605.8	506.0	358.8	207.8	82.1	26.6	26.4
82.5°	187.5	192.0	320.4	283.1	238.8	203.9	178.6	197.0	49.3	17.9	27.4
85°	68.8	69.8	180.2	215.4	142.0	84.4	88.7	163.3	13.2	11.3	21.5
87.5°	32.1	31.4	92.7	131.9	83.0	53.6	69.2	35.9	5.2	7.3	5.9
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: P199981

CATALOG NUMBER: GWC-AF-01-LED-E1-SL4-7030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1
2.5°	585.0	576.3	560.6	544.2	527.7	515.0	502.5	492.6	489.2	483.1	483.7
5°	567.1	551.1	518.0	484.5	449.6	420.8	393.8	371.8	361.2	350.4	350.4
7.5°	551.5	528.2	476.6	422.0	365.6	318.2	275.5	243.5	225.8	211.6	211.4
10°	545.6	514.1	441.9	363.8	285.2	220.6	169.8	137.3	120.5	109.7	109.2
12.5°	548.3	509.1	415.2	310.0	211.4	141.8	98.4	77.3	70.4	67.0	67.0
15°	555.8	507.7	388.6	257.3	149.3	88.7	65.3	59.7	59.2	59.2	59.2
17.5°	565.0	508.1	361.2	206.2	101.7	63.5	56.4	55.6	56.2	56.2	56.2
20°	574.4	508.4	331.7	158.7	71.7	55.2	53.1	52.8	53.3	53.3	53.6
22.5°	586.0	509.5	302.2	118.7	59.2	52.1	50.5	50.5	50.7	50.7	50.5
25°	599.2	511.9	271.5	88.0	54.0	50.1	48.5	48.3	48.5	48.3	48.1
27.5°	615.8	515.2	237.4	68.8	51.7	47.9	46.7	46.7	46.5	46.3	46.0
30°	636.5	519.0	198.9	58.5	49.3	46.0	44.8	44.6	44.4	43.9	43.9
32.5°	668.1	527.3	160.9	53.1	46.7	43.4	42.4	42.4	42.0	41.6	41.2
35°	716.7	543.6	127.0	49.7	43.9	40.6	39.4	39.4	38.9	38.7	38.5
37.5°	784.0	568.3	98.6	46.7	41.0	37.5	36.3	36.1	35.7	35.1	34.9
40°	873.3	599.0	77.7	43.9	38.2	34.5	33.5	33.1	32.1	31.4	31.4
42.5°	985.7	633.9	62.9	40.8	34.9	31.6	30.9	30.2	28.6	27.8	27.6
45°	1103.2	665.3	53.3	37.3	31.6	28.8	28.4	27.2	25.0	24.3	24.3
47.5°	1187.8	672.6	46.9	33.9	28.6	25.7	25.5	23.3	21.5	20.9	20.7
50°	1240.7	658.2	41.8	30.7	25.7	22.9	22.1	19.5	18.4	17.9	17.7
52.5°	1276.3	632.5	37.5	27.8	23.1	20.3	18.7	16.8	15.8	15.4	15.4
55°	1304.8	596.1	33.3	25.2	20.9	18.2	15.8	14.4	13.4	13.0	13.0
57.5°	1312.8	546.8	29.0	23.1	18.9	16.0	13.4	12.5	11.3	11.1	11.1
60°	1254.6	457.9	25.7	20.5	17.0	14.0	11.8	10.6	9.5	9.2	8.9
62.5°	1101.0	354.3	22.7	18.2	14.8	12.0	10.1	8.7	7.7	7.7	7.7
65°	839.8	237.6	19.9	15.8	13.0	10.1	8.7	7.1	6.7	6.7	6.9
67.5°	502.8	129.3	17.0	13.4	11.1	8.5	7.3	6.1	5.9	6.1	6.1
69°	294.6	75.9	15.4	12.0	9.7	7.5	6.3	5.5	5.9	6.1	6.1
70°	181.8	51.2	14.2	10.8	8.7	6.9	5.9	5.2	5.7	5.9	5.9
72.5°	50.7	26.4	11.3	8.5	7.1	5.7	4.7	4.7	5.5	5.7	5.7
75°	33.1	19.5	8.7	6.3	5.5	4.5	4.0	4.5	5.2	5.5	5.5
77.5°	27.4	16.0	7.1	5.2	4.5	4.3	3.8	4.0	4.7	4.9	4.9
80°	25.0	11.3	5.7	4.7	4.0	3.8	3.5	3.3	4.3	4.5	4.5
82.5°	23.8	8.9	4.9	4.3	3.8	3.3	3.1	3.3	3.8	4.0	4.3
85°	14.8	5.9	4.5	4.0	3.3	3.1	3.1	3.1	3.5	3.8	3.8
87.5°	5.5	4.7	4.0	3.3	2.8	2.8	2.8	2.8	3.1	3.5	3.5
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)