

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: P650771

Luminaire Tested: **GALN-SA2C-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8600.9 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

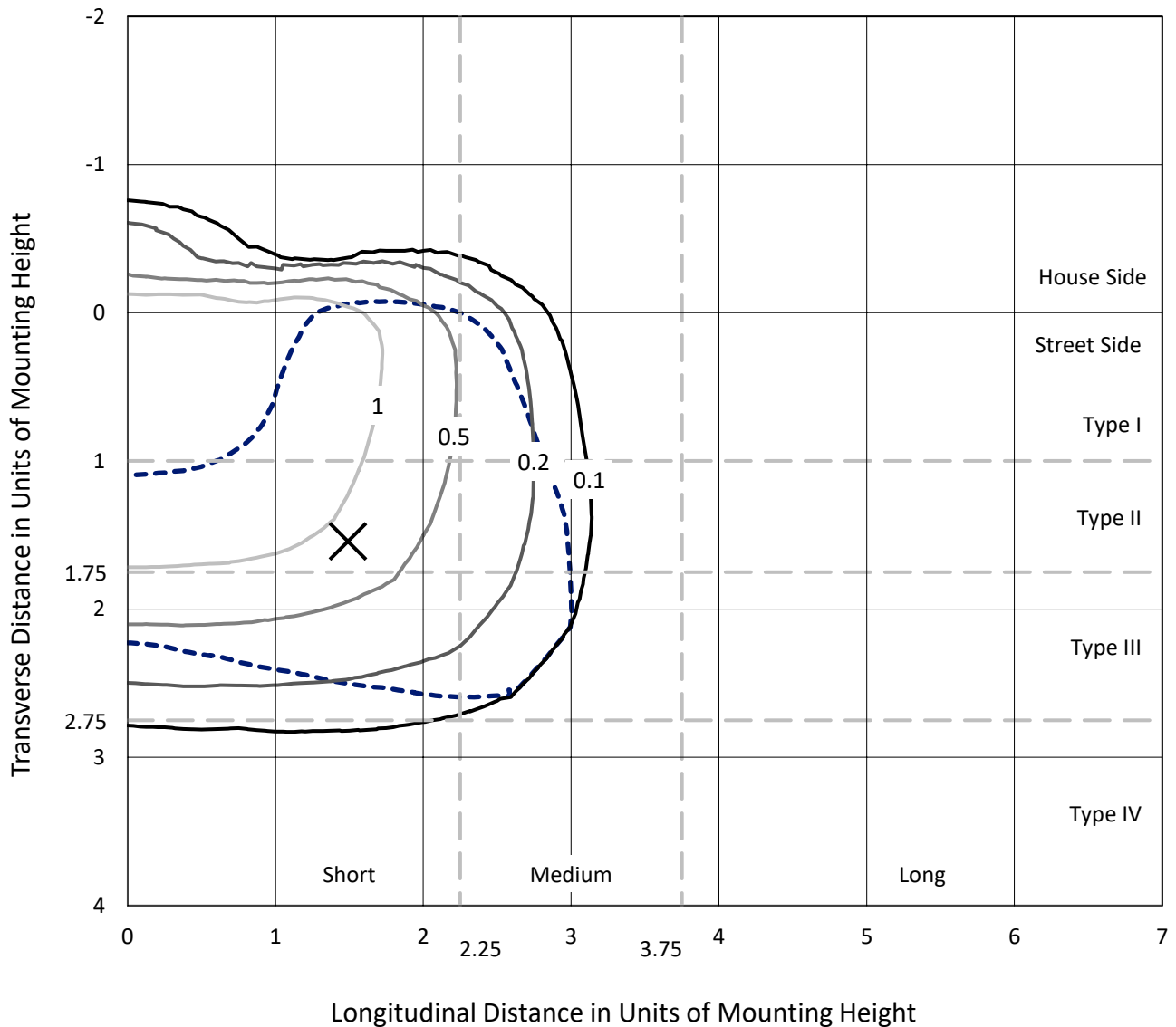
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650771  
 CATALOG NUMBER: GALN-SA2C-840-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

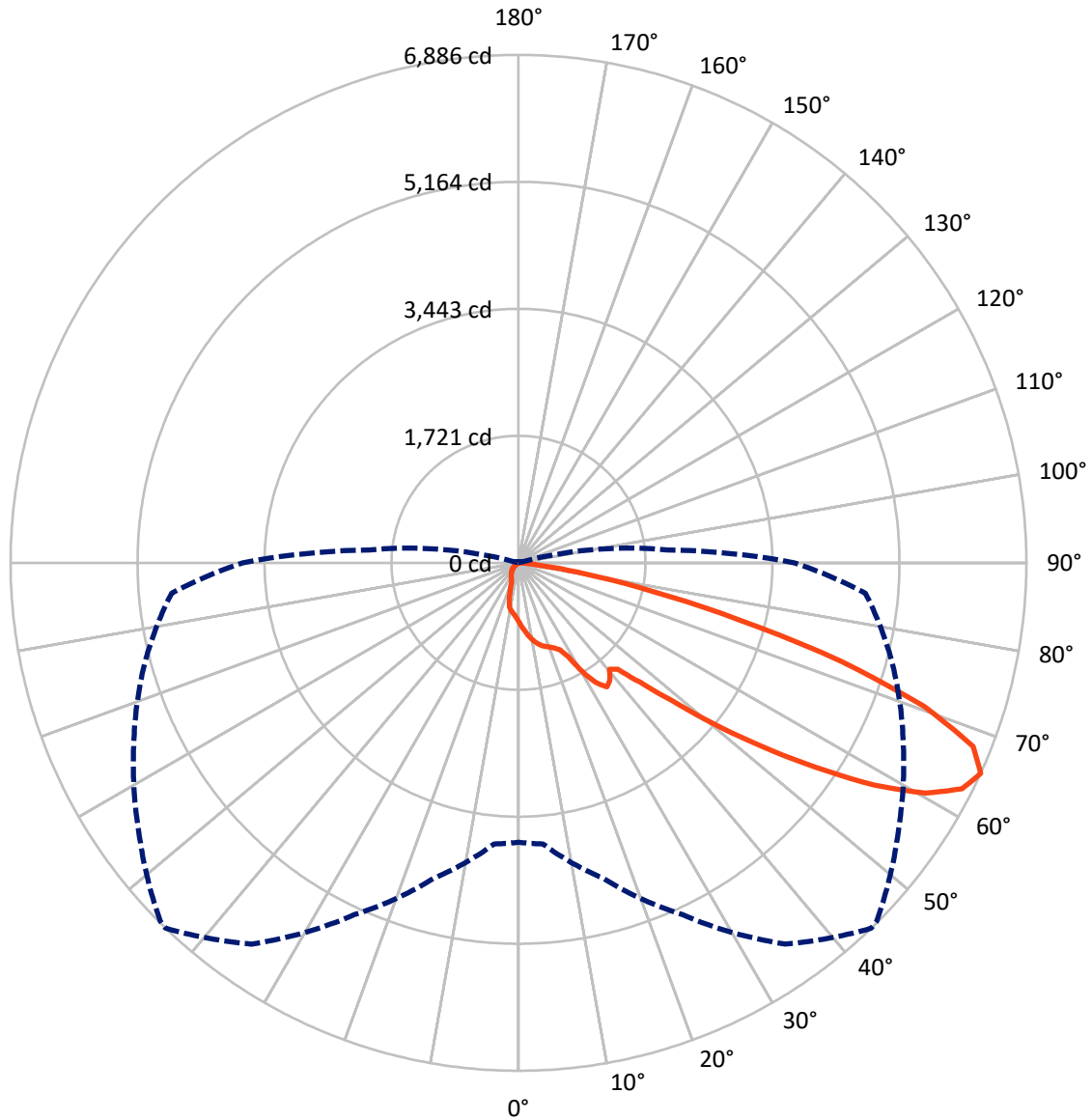
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P650771  
CATALOG NUMBER: GALN-SA2C-840-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P650771  
 CATALOG NUMBER: GALN-SA2C-840-U-T4W-HSS

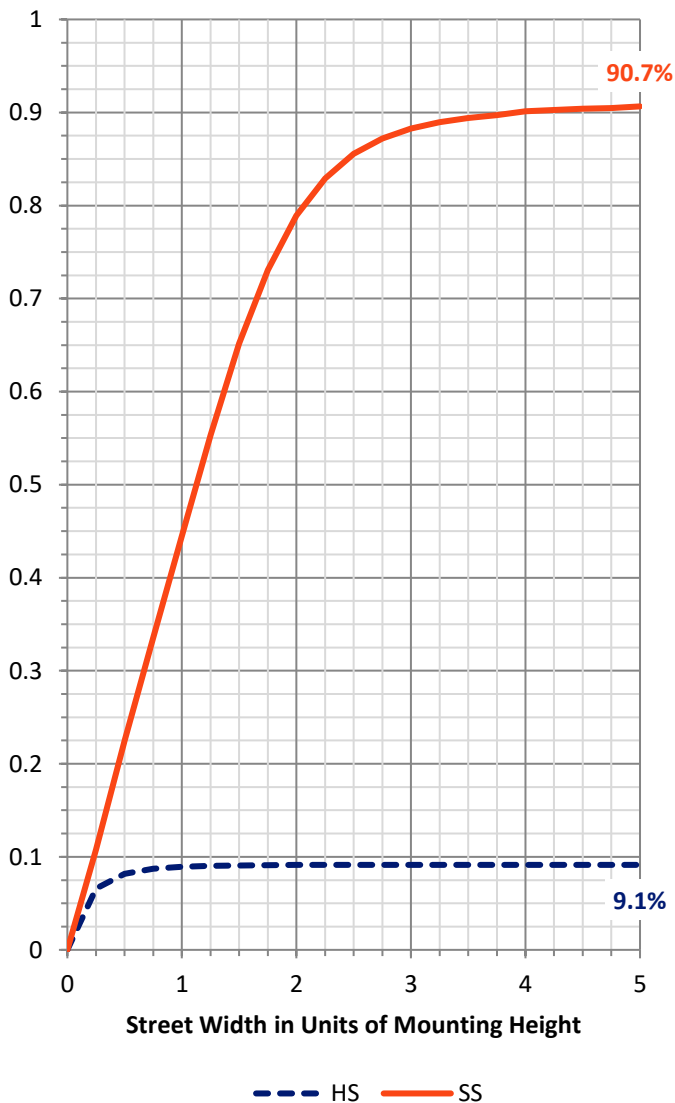
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	792.4	0.0	792.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	7808.5	0.0	7808.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	8600.9	0.0	8600.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	0.9
10°-20°	239.6	2.8
20°-30°	406.3	4.7
30°-40°	675.6	7.9
40°-50°	1179.5	13.7
50°-60°	2304.4	26.8
60°-70°	2673.6	31.1
70°-80°	973.6	11.3
80°-90°	68.6	0.8
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°	8600.9	100.0
0°-180°	8600.9	100.0



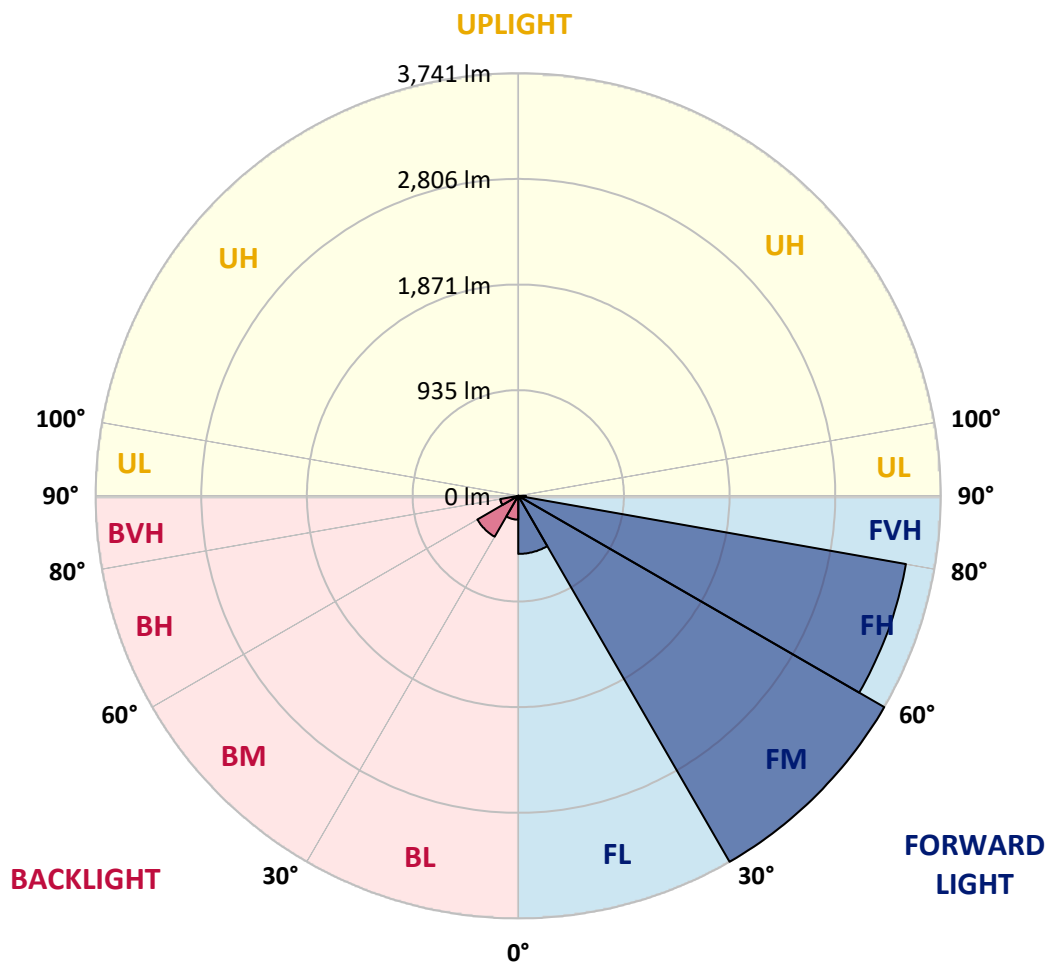
REPORT NUMBER: P650771  
 CATALOG NUMBER: GALN-SA2C-840-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.4	6.0			
FM (30°-60°)	3741.4	43.5			
FH (60°-80°)	3485.0	40.5			G2/5000
FVH (80°-90°)	67.7	0.8			G1/100
BL (0°-30°)	211.1	2.5	B1/500		
BM (30°-60°)	418.1	4.9	B1/1000		
BH (60°-80°)	162.3	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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





REPORT NUMBER: P650771

CATALOG NUMBER: GALN-SA2C-840-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5
2.5°	901.0	897.1	895.2	884.6	876.7	866.9	866.9	854.4	839.9	824.2	809.7
5°	1001.6	995.0	986.5	977.2	958.9	932.6	932.6	906.3	876.1	849.2	819.6
7.5°	1098.2	1092.3	1077.8	1060.1	1029.9	1002.2	1000.3	962.2	926.0	885.2	843.2
10°	1183.0	1178.4	1165.9	1131.7	1100.2	1064.0	1063.4	1020.6	978.6	928.6	876.7
12.5°	1242.2	1242.8	1226.3	1193.5	1152.8	1118.6	1115.9	1073.9	1029.9	976.0	912.2
15°	1284.2	1284.2	1267.1	1230.3	1193.5	1163.3	1160.7	1123.8	1078.5	1020.0	951.0
17.5°	1296.1	1299.9	1281.6	1248.7	1219.1	1192.9	1192.2	1161.3	1125.2	1068.7	990.4
20°	1291.4	1295.4	1280.9	1255.3	1234.9	1219.8	1217.9	1205.3	1171.8	1118.6	1032.5
22.5°	1281.6	1285.6	1275.0	1259.9	1250.1	1254.6	1251.3	1261.8	1244.1	1179.7	1082.5
25°	1283.5	1287.5	1279.6	1271.1	1279.6	1307.8	1316.4	1361.7	1345.9	1257.2	1136.4
27.5°	1345.3	1353.2	1342.1	1345.9	1376.2	1441.9	1458.4	1536.6	1466.9	1355.9	1220.5
30°	1482.7	1477.4	1456.4	1475.5	1580.6	1719.9	1715.3	1702.9	1593.8	1469.6	1320.4
32.5°	1607.6	1602.9	1601.6	1683.8	1874.3	1942.0	1938.8	1817.8	1707.5	1599.7	1418.9
35°	1658.1	1640.4	1636.5	1835.6	2154.4	2065.0	2044.6	1865.2	1845.5	1741.6	1519.5
37.5°	1810.6	1798.1	1737.0	1860.5	2042.6	2013.0	1997.3	1946.7	1992.7	1867.2	1633.1
40°	2124.8	2090.0	2034.7	1913.8	1884.3	1896.7	1912.5	2051.2	2166.8	2038.7	1785.0
42.5°	2515.2	2507.3	2404.8	2179.3	1957.8	1974.9	1995.3	2269.4	2417.2	2296.9	2032.8
45°	2983.8	2995.0	2847.0	2580.9	2290.4	2304.8	2334.4	2591.4	2756.4	2698.5	2422.5
47.5°	3409.7	3401.1	3351.1	3074.4	2806.3	2774.1	2822.1	3004.8	3225.6	3234.8	2906.2
50°	3838.2	3883.5	3809.2	3700.7	3501.7	3434.0	3416.2	3505.6	3842.1	3798.0	3487.2
52.5°	4453.9	4477.6	4338.3	4310.7	4356.0	4136.5	4118.8	4140.5	4441.5	4290.3	3922.3
55°	4841.0	4827.3	4775.4	4990.9	5170.3	4896.2	4873.9	4786.5	4938.9	4637.9	4340.9
57.5°	4963.3	4983.0	5103.9	5493.7	5918.2	5685.6	5644.8	5396.4	5297.8	4962.0	4726.0
60°	4908.7	4944.9	5205.8	5785.5	6374.4	6339.5	6304.6	5887.3	5555.5	5232.8	4996.1
62.5°	4520.3	4570.9	4988.2	5733.5	6528.8	6746.3	6702.9	6193.6	5727.0	5364.2	5043.5
65°	3788.2	3825.6	4425.0	5262.3	6309.3	6885.6	6869.9	6289.6	5754.0	5243.9	4719.4
67.5°	2700.5	2828.0	3383.3	4434.8	5659.9	6647.8	6674.7	6174.5	5500.9	4724.1	3908.5
70°	1697.6	1784.3	2182.6	3175.0	4537.4	5832.2	5920.9	5648.1	4774.0	3682.4	2616.4
72.5°	809.7	874.1	1158.0	2009.7	3202.6	4588.7	4659.0	4636.7	3691.6	2320.0	1349.9
75°	360.8	385.1	552.7	1025.9	2067.6	3084.3	3266.4	3296.6	2306.9	1135.0	525.1
77.5°	184.0	184.7	258.9	496.9	1032.5	1840.2	1876.4	1982.2	1250.7	500.1	182.7
80°	97.9	104.5	137.3	234.6	535.6	906.3	901.7	991.1	554.7	245.2	61.1
82.5°	44.1	48.6	77.5	122.9	261.6	343.7	370.6	405.5	237.9	156.4	26.9
85°	13.1	15.8	38.1	61.8	94.6	99.2	111.1	143.3	134.7	111.1	13.8
87.5°	1.9	1.9	15.8	17.1	13.8	17.7	18.4	20.4	43.4	40.8	7.2
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: P650771

CATALOG NUMBER: GALN-SA2C-840-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5	800.5
2.5°	801.8	797.2	780.8	767.0	755.1	747.9	739.4	734.1	731.5	729.5	730.2
5°	805.1	793.9	765.6	743.3	726.2	707.8	695.3	688.1	684.8	679.5	679.5
7.5°	823.5	805.8	766.3	732.2	702.6	677.6	654.0	645.4	639.5	638.2	636.8
10°	849.7	827.5	773.6	726.2	684.2	650.0	616.5	586.9	563.9	550.1	548.1
12.5°	882.6	850.4	784.7	722.3	668.4	608.0	519.2	459.4	419.3	406.8	408.8
15°	912.9	878.0	795.9	719.0	639.5	504.1	403.5	335.1	314.8	312.9	313.5
17.5°	949.0	907.6	809.0	714.4	559.9	385.1	299.6	281.3	285.3	291.8	291.2
20°	986.5	939.1	824.8	686.8	446.9	289.8	264.8	266.8	272.7	278.6	280.0
22.5°	1026.6	975.3	843.2	620.4	341.1	252.4	251.0	253.6	259.6	266.2	267.5
25°	1081.8	1020.6	857.0	533.7	258.3	233.3	235.9	240.5	245.8	253.1	254.3
27.5°	1152.8	1081.8	864.2	420.6	223.5	216.2	216.9	223.5	230.0	236.6	236.6
30°	1244.8	1154.7	849.7	318.1	206.4	199.8	197.1	201.1	209.7	216.2	216.9
32.5°	1326.9	1223.7	811.6	243.1	193.9	184.7	178.1	178.8	182.1	186.0	186.6
35°	1409.1	1290.8	746.6	204.4	180.7	170.2	160.4	155.1	152.5	150.5	152.5
37.5°	1514.2	1374.3	659.8	186.0	169.5	156.4	142.6	131.4	122.3	116.3	117.7
40°	1649.6	1489.9	557.3	174.2	159.0	143.3	124.9	110.4	94.6	89.4	86.8
42.5°	1873.1	1665.3	449.5	164.3	148.5	129.4	106.5	86.8	72.3	67.0	68.4
45°	2226.0	1886.9	346.3	153.8	138.0	114.4	89.4	68.4	56.5	53.9	55.2
47.5°	2693.9	2173.4	266.8	142.0	124.9	97.9	70.3	53.9	46.7	46.0	45.3
50°	3134.2	2440.2	222.8	128.8	109.1	81.5	57.9	45.3	40.8	40.1	40.1
52.5°	3532.5	2631.5	181.4	113.7	92.0	67.0	48.6	40.1	36.2	34.1	34.1
55°	3886.8	2756.4	147.2	95.3	72.3	53.2	42.0	36.2	31.5	28.9	28.3
57.5°	4154.3	2771.5	110.4	76.3	53.9	41.4	36.2	31.5	26.3	23.0	21.7
60°	4268.6	2640.7	81.5	57.9	40.1	32.9	28.9	25.7	19.7	16.4	15.8
62.5°	4153.6	2386.3	60.5	44.1	30.9	24.3	20.4	19.1	13.8	9.8	9.2
65°	3741.5	2019.0	47.9	33.6	23.0	17.7	13.1	12.4	8.6	4.6	4.0
67.5°	2997.6	1581.2	38.1	25.0	16.4	11.9	8.6	7.9	4.6	1.3	1.3
70°	1949.3	1010.8	30.9	18.4	10.5	7.9	5.3	4.0	2.6	0.7	0.0
72.5°	964.1	472.6	25.0	14.5	7.2	4.0	1.9	1.3	1.9	0.0	0.0
75°	374.0	168.3	18.4	9.8	4.0	1.9	1.3	0.0	0.7	0.0	0.0
77.5°	124.2	55.8	11.2	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0
80°	46.0	21.7	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	8.6	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	5.3	2.6	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.0	2.6	1.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0
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)