

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: P652240

Luminaire Tested: **GALN-SA2B-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7193.9 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

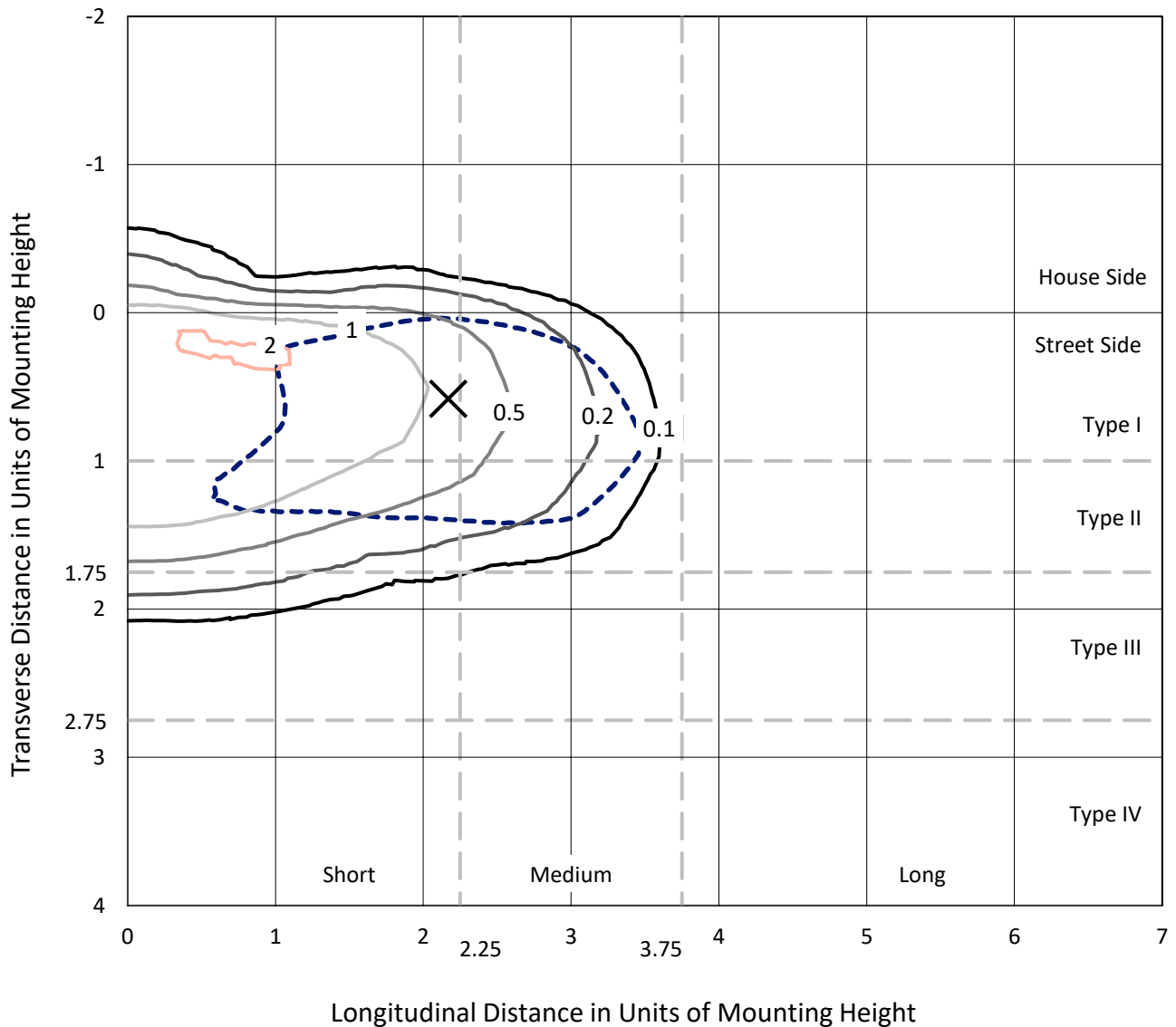
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

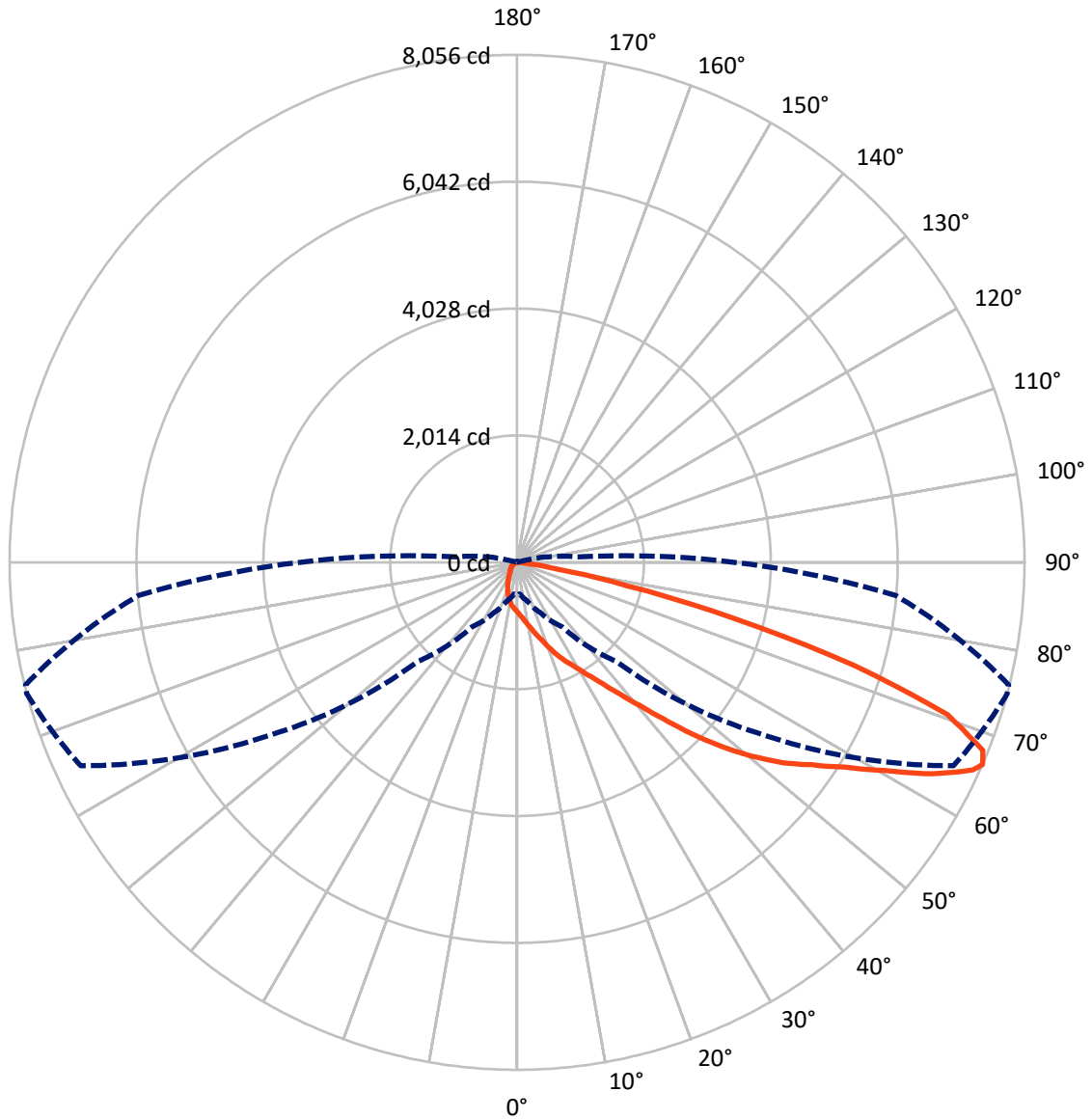
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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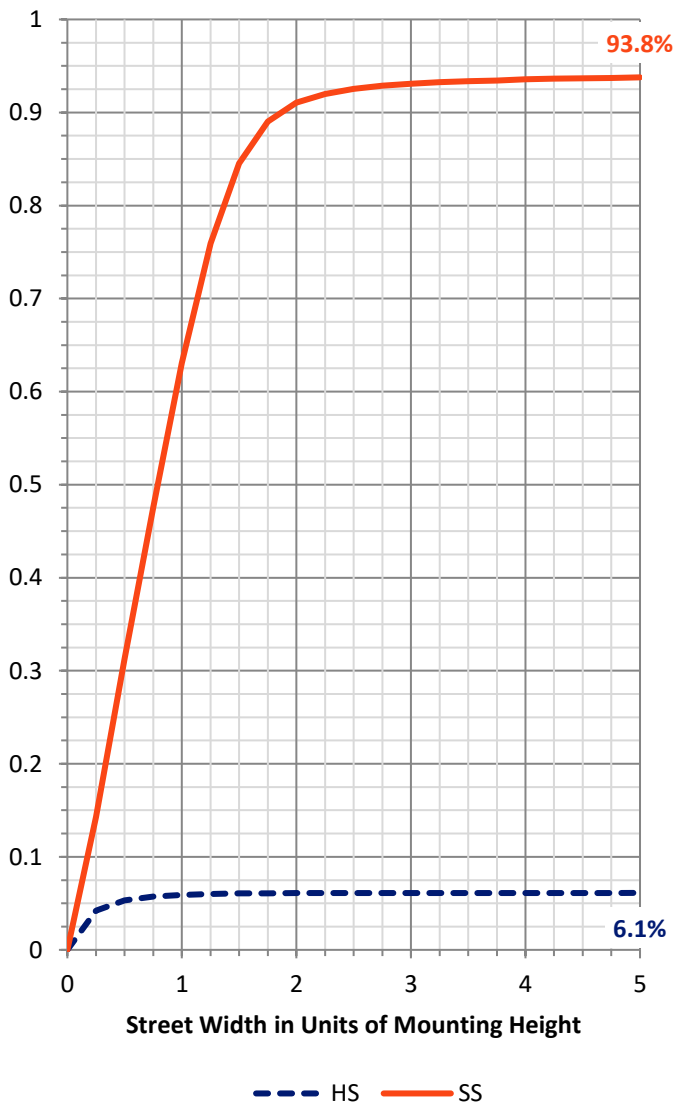
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	444.1	0.0	444.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6749.8	0.0	6749.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	7193.9	0.0	7193.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	1.1
10°-20°	223.3	3.1
20°-30°	385.6	5.4
30°-40°	695.6	9.7
40°-50°	1256.6	17.5
50°-60°	1959.1	27.2
60°-70°	1861.0	25.9
70°-80°	697.5	9.7
80°-90°	39.4	0.5
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°	7193.9	100.0
0°-180°	7193.9	100.0

**Coefficient of Utilization**



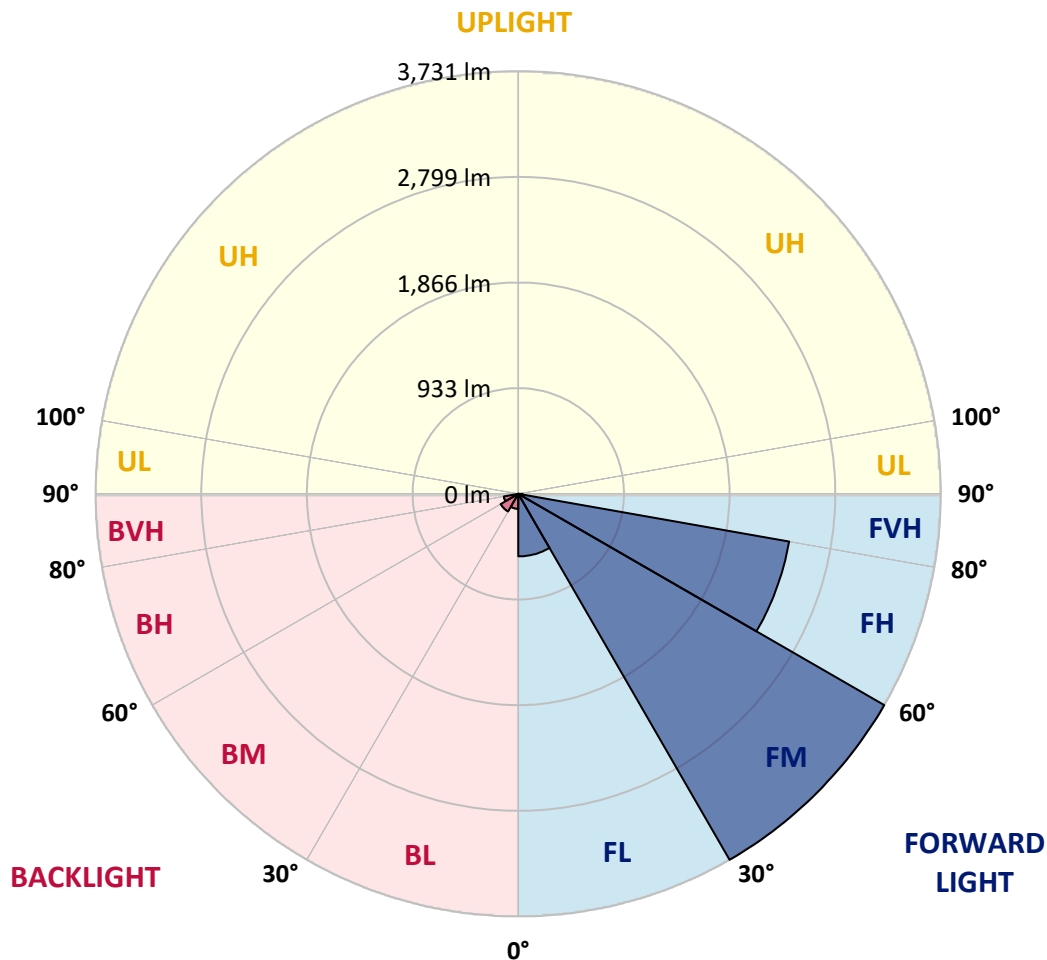
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.2	7.7			
FM (30°-60°)	3731.5	51.9			
FH (60°-80°)	2428.8	33.8			G2/5000
FVH (80°-90°)	37.3	0.5			G1/100
BL (0°-30°)	132.6	1.8	B1/500		
BM (30°-60°)	179.8	2.5	B0/220		
BH (60°-80°)	129.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8
2.5°	939.9	928.2	931.9	926.6	914.4	896.3	880.4	857.5	834.6	830.9	805.3
5°	1063.9	1060.7	1056.4	1041.0	1032.5	1004.8	971.9	932.5	885.2	876.7	830.3
7.5°	1148.5	1146.9	1149.0	1141.0	1133.6	1108.5	1073.5	1019.7	946.3	941.5	864.4
10°	1176.1	1180.3	1188.3	1201.1	1212.8	1204.8	1178.2	1111.2	1025.6	1011.7	903.2
12.5°	1160.2	1165.0	1184.0	1218.1	1255.9	1277.7	1267.1	1218.1	1109.6	1098.4	946.8
15°	1119.2	1125.0	1152.2	1204.8	1272.3	1334.1	1360.7	1325.6	1207.5	1189.4	999.5
17.5°	1058.6	1067.1	1105.9	1175.5	1268.1	1374.5	1449.5	1437.8	1311.7	1294.7	1057.0
20°	1012.8	1019.2	1052.2	1132.0	1250.1	1396.8	1534.1	1567.0	1440.5	1411.2	1124.5
22.5°	1043.1	1045.3	1056.4	1104.3	1217.6	1402.7	1608.6	1701.7	1577.2	1551.1	1194.7
25°	1191.5	1170.3	1159.1	1148.5	1210.7	1397.4	1676.1	1842.0	1713.4	1685.7	1264.4
27.5°	1425.6	1416.0	1359.6	1284.1	1269.7	1404.3	1720.8	1975.1	1841.5	1811.8	1332.5
30°	1680.4	1663.9	1629.3	1518.7	1407.5	1453.2	1753.2	2104.4	1993.2	1953.8	1394.7
32.5°	1914.5	1925.0	1873.5	1759.6	1630.9	1557.5	1795.3	2245.3	2167.1	2118.1	1467.0
35°	2187.3	2208.6	2129.3	2020.3	1869.7	1745.8	1877.2	2404.3	2387.9	2326.1	1578.8
37.5°	2464.5	2477.2	2428.8	2275.6	2139.9	1985.2	2031.4	2600.6	2659.7	2607.0	1712.3
40°	2697.4	2715.0	2679.3	2543.2	2398.4	2262.3	2255.4	2814.4	2983.0	2928.8	1911.3
42.5°	2875.6	2888.9	2890.0	2793.7	2663.4	2601.6	2541.0	3087.3	3388.4	3325.7	2142.1
45°	3100.6	3119.8	3108.6	3043.2	2945.9	2934.7	2903.3	3417.2	3873.6	3794.3	2441.6
47.5°	3448.5	3461.3	3433.6	3356.5	3257.5	3275.1	3256.5	3786.9	4368.2	4300.1	2751.7
50°	3690.0	3711.2	3750.6	3781.5	3709.7	3644.8	3589.5	4132.0	4837.9	4776.7	3068.7
52.5°	3687.4	3722.4	3846.9	4002.2	4159.2	4139.5	3980.5	4513.4	5286.4	5210.8	3366.6
55°	3438.9	3507.1	3690.0	3965.6	4400.1	4616.6	4544.3	4954.9	5673.6	5622.5	3711.8
57.5°	2926.2	2967.6	3221.9	3607.0	4265.6	4841.1	5197.5	5553.4	6138.0	6114.0	4248.0
60°	1968.1	1986.8	2313.9	2790.0	3631.5	4617.2	5676.2	6277.3	6709.8	6698.1	4874.1
62.5°	1127.7	1135.7	1372.9	1774.5	2584.1	3912.9	5716.7	7170.5	7395.4	7401.8	5598.5
65°	606.9	611.2	802.7	1041.5	1572.4	2788.9	5140.6	7659.8	7949.7	7961.9	6047.5
66°	523.9	503.8	638.8	887.8	1251.1	2219.7	4776.2	7642.3	8056.1	8042.8	6031.6
67.5°	398.4	416.5	510.2	682.5	927.1	1578.2	3943.2	7302.3	7975.2	7933.7	5786.3
70°	285.1	292.6	363.3	486.7	631.4	866.0	2519.7	6065.0	7248.6	7192.7	5041.1
72.5°	184.0	192.0	257.4	352.1	456.4	472.9	1410.7	4382.0	5588.4	5580.5	3796.4
75°	131.4	138.8	170.2	252.1	343.1	292.6	679.3	2953.3	3552.8	3528.8	2348.5
77.5°	95.2	98.9	113.9	164.9	245.2	209.6	314.9	1577.2	1768.7	1852.2	1037.8
80°	54.7	57.9	79.2	100.5	165.9	143.1	150.5	633.0	652.7	621.3	324.5
82.5°	27.2	30.9	47.3	68.6	103.7	96.3	69.1	190.4	201.1	195.8	81.9
85°	6.4	8.0	26.6	45.2	50.5	43.1	33.5	55.8	69.1	67.5	31.4
87.5°	0.5	1.1	9.6	8.0	8.5	14.4	11.7	14.4	22.4	20.8	11.2
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°	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8
2.5°	793.7	783.6	754.3	725.5	701.6	676.6	653.7	640.4	635.1	629.2	631.9
5°	804.8	780.4	721.3	670.2	620.2	577.7	543.6	521.8	511.2	509.6	507.0
7.5°	819.7	777.7	686.2	606.4	541.0	493.7	454.8	423.4	413.9	405.4	398.4
10°	837.8	772.9	642.6	539.4	469.7	410.2	359.0	321.9	302.7	297.4	301.1
12.5°	857.0	763.9	596.9	477.7	397.4	321.3	273.9	255.3	250.0	247.8	248.4
15°	876.1	752.7	548.9	418.1	316.5	256.4	234.6	229.8	227.7	226.6	225.6
17.5°	893.6	734.6	495.3	360.1	256.4	219.2	211.2	206.9	202.7	201.1	198.4
20°	914.4	713.8	446.8	295.2	217.1	198.4	188.8	180.8	174.5	170.2	169.7
22.5°	934.1	687.3	396.3	244.6	197.9	178.2	162.7	154.2	146.8	141.5	143.1
25°	944.7	654.8	351.0	213.3	180.3	158.0	141.0	130.4	122.4	119.7	119.2
27.5°	944.7	614.9	307.0	195.2	164.3	139.9	122.4	112.3	106.9	103.2	103.7
30°	937.3	570.8	265.9	181.4	150.5	124.0	107.5	98.4	94.2	91.5	91.0
32.5°	931.4	528.7	230.9	168.1	136.2	110.1	95.7	88.8	84.6	81.9	81.9
35°	940.5	492.6	203.7	154.8	122.9	99.5	86.7	80.3	76.0	73.9	73.4
37.5°	964.4	459.6	183.0	140.4	110.7	90.4	80.3	72.9	68.6	65.9	64.9
40°	1023.4	440.9	167.5	127.2	98.9	83.0	72.9	65.9	60.6	57.9	57.4
42.5°	1118.1	441.5	152.6	114.9	89.9	76.6	66.5	58.5	52.6	50.0	49.5
45°	1260.7	461.7	141.0	103.2	81.9	69.7	59.5	51.0	45.8	43.1	43.1
47.5°	1431.5	501.1	130.9	93.1	74.4	63.3	52.6	44.2	38.9	36.7	36.7
50°	1616.6	552.1	120.8	82.4	68.1	56.3	45.2	38.3	34.1	32.5	32.5
52.5°	1805.4	613.8	110.7	73.9	61.1	48.9	38.9	34.1	30.4	29.3	28.8
55°	2053.2	692.6	100.0	64.9	53.7	42.0	34.6	29.8	25.6	24.0	23.4
57.5°	2434.6	811.2	88.3	56.9	44.2	35.1	29.8	25.0	20.2	17.6	17.0
60°	2894.8	955.9	76.0	50.0	35.7	28.8	24.0	19.2	14.9	11.7	11.2
62.5°	3325.7	1047.9	64.3	42.0	28.2	21.8	17.0	14.4	10.6	7.5	6.9
65°	3516.1	1017.0	53.2	34.1	22.4	15.4	11.2	10.1	6.4	3.2	2.7
66°	3452.7	971.3	48.9	30.9	20.2	13.3	9.6	8.5	4.8	1.6	1.6
67.5°	3266.0	863.3	42.6	26.6	17.6	10.6	7.5	6.4	2.7	0.5	0.0
70°	2798.5	698.5	33.5	19.7	12.8	7.5	4.3	3.2	1.6	0.0	0.0
72.5°	2149.5	520.2	26.6	14.9	9.1	4.3	2.1	1.1	1.6	0.0	0.0
75°	1317.1	297.4	20.8	11.2	5.9	2.7	1.6	0.0	1.6	0.5	0.0
77.5°	584.6	133.6	13.8	7.5	4.3	2.1	1.1	0.0	1.1	0.5	0.0
80°	147.8	43.6	8.0	5.3	3.2	1.6	0.5	0.0	1.1	1.1	0.5
82.5°	40.5	16.0	5.9	4.3	2.7	1.6	0.5	0.0	1.1	1.1	1.1
85°	16.0	7.5	5.3	4.3	3.2	1.6	0.5	0.0	1.1	1.1	1.1
87.5°	7.5	5.3	5.3	4.8	3.7	1.6	0.5	0.0	1.1	0.5	1.1
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)