

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: P527513

Luminaire Tested: **GALN-SA2C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8710 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

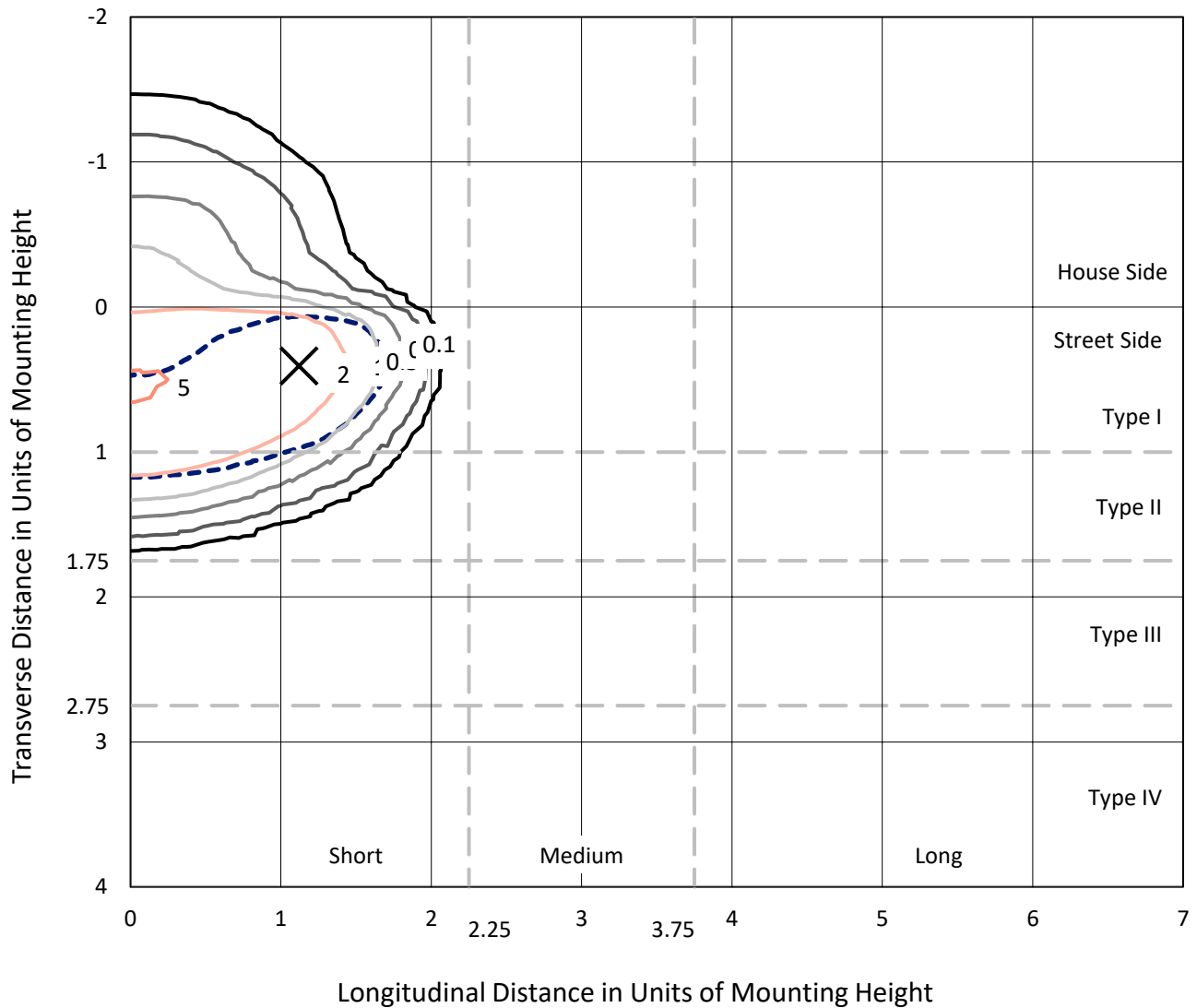
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

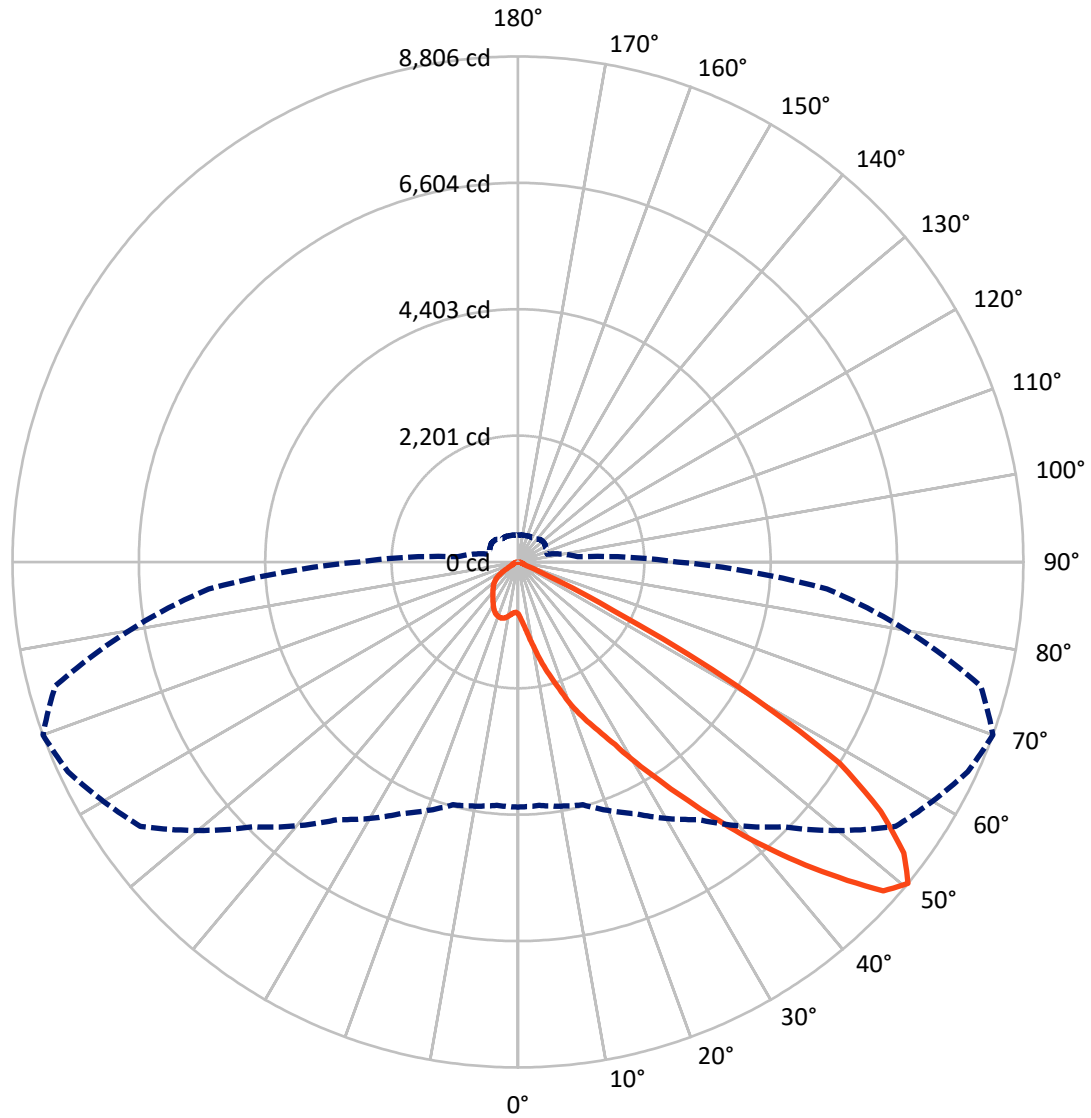
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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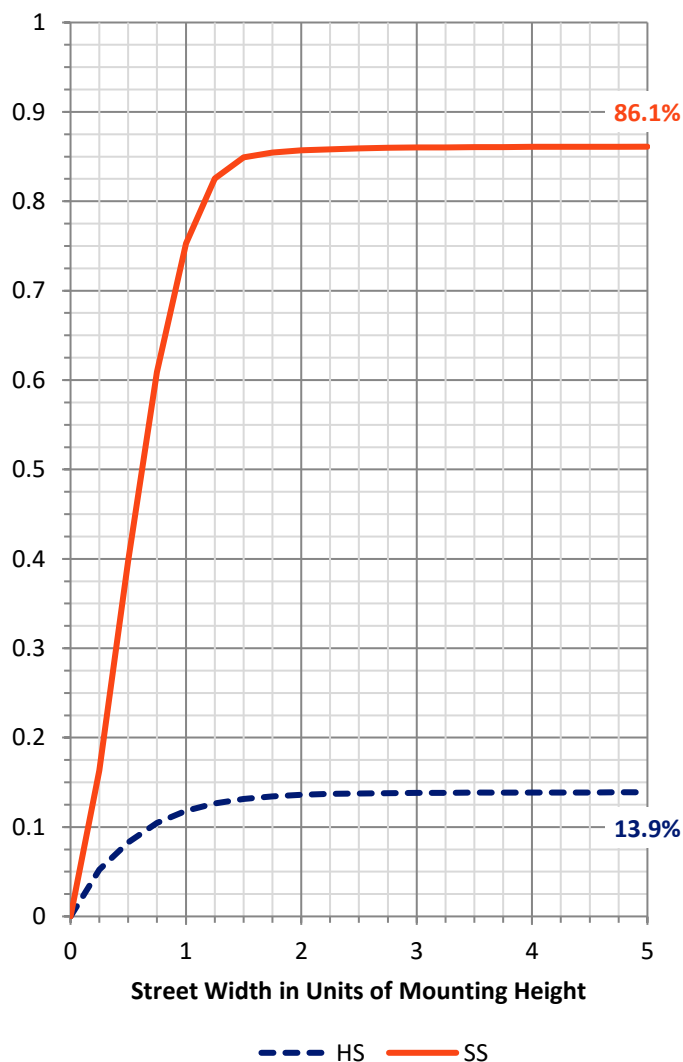
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1216.4	0.0	1216.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7493.6	0.0	7493.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8710.0	0.0	8710.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	1.3
10°-20°	507.5	5.8
20°-30°	1064.6	12.2
30°-40°	1835.0	21.1
40°-50°	2681.8	30.8
50°-60°	2088.7	24.0
60°-70°	353.9	4.1
70°-80°	48.6	0.6
80°-90°	12.6	0.1
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°	8710.0	100.0
0°-180°	8710.0	100.0

**Coefficient of Utilization**



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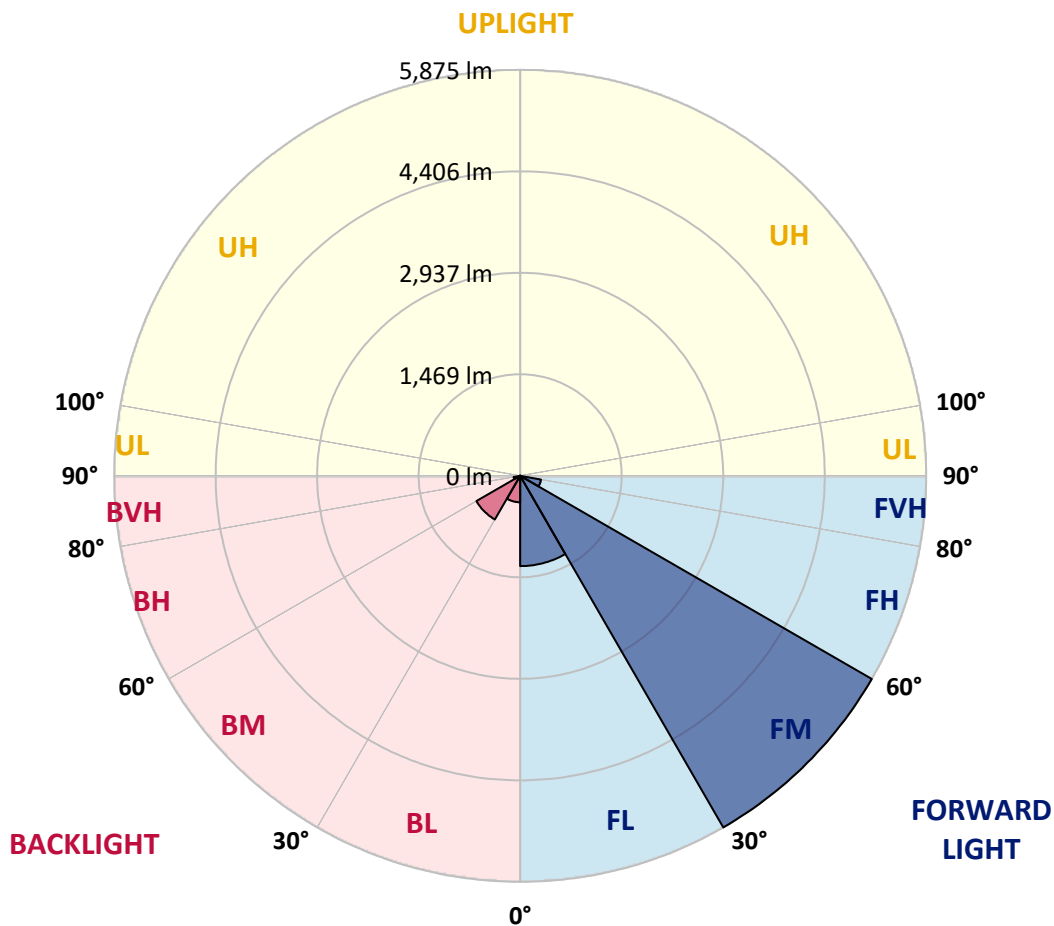
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.6	15.0			
FM (30°-60°)	5874.7	67.4			
FH (60°-80°)	306.4	3.5			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	382.8	4.4	B1/500		
BM (30°-60°)	730.8	8.4	B1/1000		
BH (60°-80°)	96.1	1.1	B0/110		G0/110
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2
2.5°	1181.4	1172.8	1154.2	1119.9	1105.5	1071.2	1051.1	1012.5	988.1	960.9	930.8
5°	1664.0	1619.6	1592.4	1553.8	1440.6	1370.5	1254.5	1155.7	1109.8	1059.7	991.0
7.5°	2162.4	2133.7	2096.5	2013.4	1936.1	1790.0	1591.0	1373.3	1280.2	1194.3	1058.3
10°	2574.8	2494.6	2490.3	2428.7	2344.2	2169.5	1930.4	1659.7	1493.6	1367.6	1154.2
12.5°	2862.6	2789.6	2822.5	2815.4	2736.6	2576.2	2299.9	1941.8	1768.6	1572.4	1253.0
15°	3124.7	3094.6	3084.6	3076.0	3044.5	2925.7	2677.9	2285.5	2034.9	1798.6	1364.7
17.5°	3381.0	3303.7	3340.9	3348.1	3345.2	3237.8	3005.8	2612.0	2317.0	2037.8	1482.2
20°	3608.7	3615.9	3565.8	3555.8	3547.2	3542.9	3316.6	2935.7	2663.6	2288.4	1635.4
22.5°	3900.9	3850.8	3895.1	3866.5	3810.7	3776.3	3603.0	3222.1	2964.3	2590.6	1791.5
25°	4246.0	4286.1	4181.6	4170.1	4108.5	3989.7	3833.6	3542.9	3253.6	2871.2	1960.5
27.5°	4671.3	4601.1	4573.9	4510.9	4399.2	4349.1	4165.8	3873.7	3603.0	3166.2	2123.7
30°	5036.5	5017.9	4881.8	4807.4	4710.0	4708.5	4452.2	4321.9	4058.4	3628.8	2348.5
32.5°	5334.3	5252.7	5202.6	5151.0	5072.3	5093.8	4877.5	4808.8	4543.9	4058.4	2613.5
35°	5533.4	5474.7	5444.6	5365.8	5342.9	5438.9	5348.7	5320.0	5102.4	4662.7	2924.2
37.5°	5596.4	5615.0	5609.3	5510.5	5559.2	5818.4	5934.4	5859.9	5745.3	5300.0	3260.8
40°	5652.3	5665.1	5636.5	5752.5	5891.4	6186.4	6606.0	6482.8	6439.9	5945.8	3729.0
42.5°	5683.8	5673.7	5673.7	5874.2	6084.7	6677.6	7254.7	7173.1	7140.1	6633.2	4270.3
45°	5547.7	5450.3	5554.9	5827.0	6250.8	6919.6	7773.1	7886.2	7839.0	7450.9	4903.3
47.5°	5039.3	5099.5	5158.2	5521.9	6048.9	6845.1	8091.0	8476.2	8563.6	8138.3	5318.6
50°	4270.3	4257.5	4379.2	4837.4	5477.5	6524.4	8029.4	8646.7	8805.6	8344.5	5405.9
52.5°	3106.1	3200.6	3332.4	3787.7	4546.7	5693.8	7234.7	8207.0	8419.0	8091.0	5348.7
55°	1808.7	1704.1	2000.6	2385.8	3101.8	4294.7	6116.2	7274.8	7667.1	7629.9	5059.4
57.5°	724.6	701.7	803.4	1082.6	1618.2	2662.2	4447.9	5977.3	6606.0	6988.3	4446.5
60°	317.9	310.8	365.2	441.1	661.6	1227.3	2433.0	3717.6	4373.4	4883.3	3060.3
62.5°	229.1	226.3	253.5	280.7	349.4	534.2	1022.5	1497.9	1867.4	2255.5	1370.5
65°	184.7	191.9	210.5	224.8	257.8	296.4	360.9	416.7	511.2	529.9	302.2
67.5°	150.4	156.1	173.3	189.0	194.8	160.4	166.1	146.1	146.1	130.3	104.5
70°	110.3	111.7	131.7	150.4	120.3	64.4	113.1	113.1	101.7	97.4	88.8
72.5°	81.6	83.1	98.8	93.1	47.3	40.1	83.1	91.7	83.1	78.8	71.6
75°	60.1	61.6	51.6	21.5	20.0	25.8	48.7	63.0	60.1	58.7	54.4
77.5°	11.5	8.6	7.2	10.0	14.3	21.5	31.5	38.7	40.1	43.0	40.1
80°	1.4	1.4	4.3	8.6	15.8	22.9	32.9	37.2	38.7	40.1	37.2
82.5°	0.0	1.4	4.3	8.6	15.8	21.5	28.6	32.9	35.8	37.2	35.8
85°	0.0	1.4	2.9	7.2	12.9	15.8	14.3	10.0	8.6	10.0	7.2
87.5°	0.0	0.0	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2
2.5°	913.6	907.9	887.9	866.4	847.8	856.4	847.8	840.6	843.5	840.6	837.7
5°	963.8	938.0	895.0	876.4	860.7	859.2	854.9	853.5	854.9	854.9	842.0
7.5°	1011.0	969.5	923.7	903.6	885.0	886.4	876.4	876.4	875.0	867.8	865.0
10°	1082.6	1026.8	968.1	932.3	909.3	905.0	895.0	885.0	885.0	885.0	870.7
12.5°	1161.4	1091.2	1011.0	969.5	942.3	920.8	905.0	902.2	886.4	883.6	876.4
15°	1230.1	1141.3	1039.7	982.4	948.0	919.4	895.0	879.3	872.1	867.8	862.1
17.5°	1297.4	1184.3	1055.4	982.4	945.1	912.2	886.4	872.1	854.9	857.8	846.3
20°	1387.6	1230.1	1059.7	963.8	917.9	886.4	852.1	844.9	834.9	826.3	829.2
22.5°	1475.0	1263.1	1046.8	940.8	875.0	837.7	820.6	812.0	807.7	800.5	790.5
25°	1553.8	1298.9	1026.8	899.3	829.2	801.9	786.2	784.8	774.7	774.7	756.1
27.5°	1634.0	1311.7	992.4	850.6	789.1	773.3	766.1	763.3	759.0	749.0	736.1
30°	1725.6	1316.0	942.3	800.5	753.3	736.1	746.1	753.3	734.6	716.0	721.7
32.5°	1801.5	1306.0	882.1	753.3	727.5	718.9	738.9	746.1	724.6	704.6	694.5
35°	1893.2	1281.7	823.4	716.0	701.7	718.9	736.1	736.1	693.1	668.8	663.0
37.5°	2032.1	1254.5	769.0	684.5	674.5	710.3	733.2	717.5	650.1	620.1	612.9
40°	2181.0	1237.3	716.0	653.0	660.2	696.0	708.9	660.2	591.4	572.8	567.1
42.5°	2397.2	1202.9	668.8	625.8	647.3	675.9	675.9	588.6	562.8	552.8	551.3
45°	2666.5	1178.6	627.2	602.9	628.7	635.8	612.9	551.3	532.7	529.9	531.3
47.5°	2798.2	1131.3	584.3	575.7	594.3	595.7	535.6	521.3	505.5	501.2	498.3
50°	2778.2	1046.8	528.4	539.9	565.7	551.3	488.3	491.2	476.9	475.4	468.3
52.5°	2637.8	913.6	472.6	499.8	528.4	486.9	449.7	446.8	446.8	428.2	421.0
55°	2338.5	736.1	405.3	439.6	474.0	409.6	399.5	396.7	389.5	372.3	368.0
57.5°	1851.6	539.9	305.0	342.3	402.4	348.0	346.6	333.7	315.0	302.2	302.2
60°	1101.2	310.8	191.9	209.1	266.4	282.1	313.6	307.9	276.4	256.3	250.6
62.5°	502.6	160.4	121.7	124.6	143.2	183.3	246.3	285.0	240.6	206.2	203.3
65°	169.0	118.9	100.2	95.9	98.8	110.3	147.5	201.9	191.9	159.0	153.2
67.5°	103.1	106.0	94.5	87.4	87.4	85.9	84.5	91.7	113.1	110.3	111.7
70°	88.8	97.4	87.4	78.8	75.9	71.6	60.1	50.1	43.0	50.1	53.0
72.5°	71.6	77.3	74.5	67.3	60.1	54.4	43.0	32.9	24.3	21.5	21.5
75°	53.0	57.3	60.1	51.6	45.8	38.7	31.5	21.5	12.9	8.6	8.6
77.5°	38.7	43.0	44.4	40.1	34.4	27.2	20.0	14.3	7.2	2.9	2.9
80°	32.9	38.7	43.0	40.1	35.8	25.8	18.6	10.0	5.7	1.4	1.4
82.5°	31.5	38.7	43.0	38.7	34.4	24.3	18.6	11.5	4.3	1.4	1.4
85°	7.2	10.0	12.9	15.8	18.6	18.6	14.3	8.6	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	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)