

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: P646798

Luminaire Tested: **GALN-SA2C-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8862.8 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

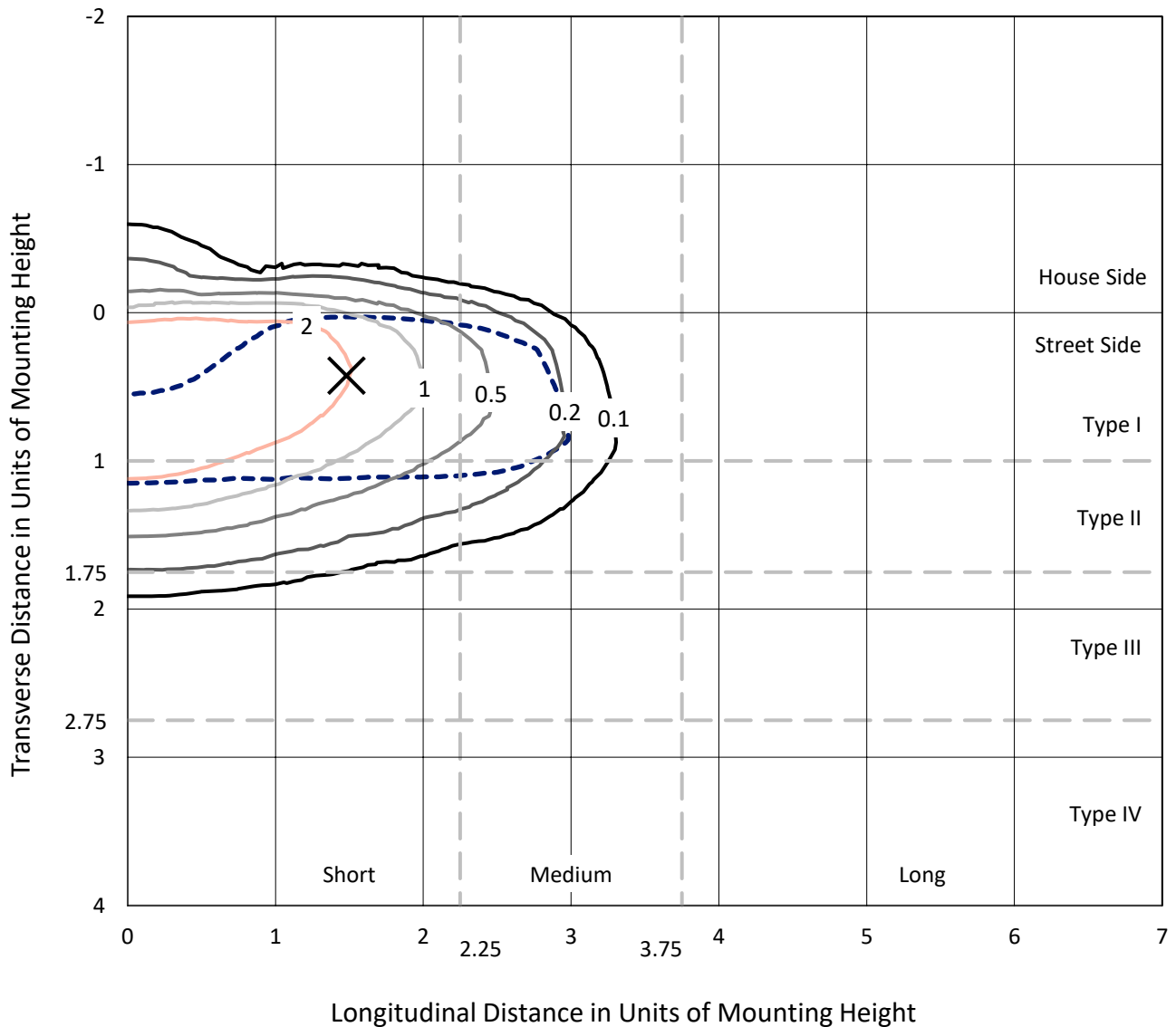
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646798  
 CATALOG NUMBER: GALN-SA2C-835-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

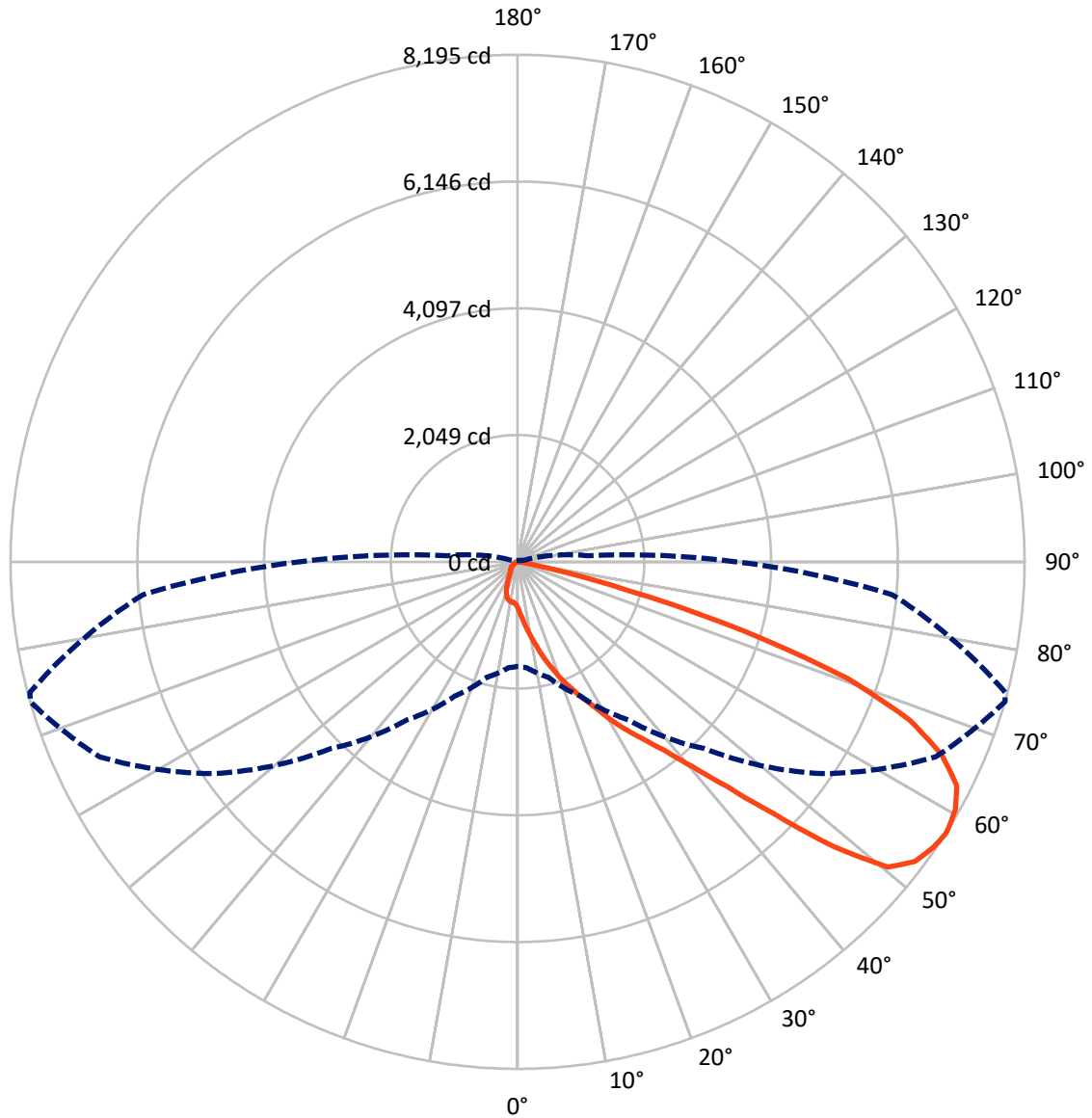
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P646798  
CATALOG NUMBER: GALN-SA2C-835-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P646798  
 CATALOG NUMBER: GALN-SA2C-835-U-T2R-HSS

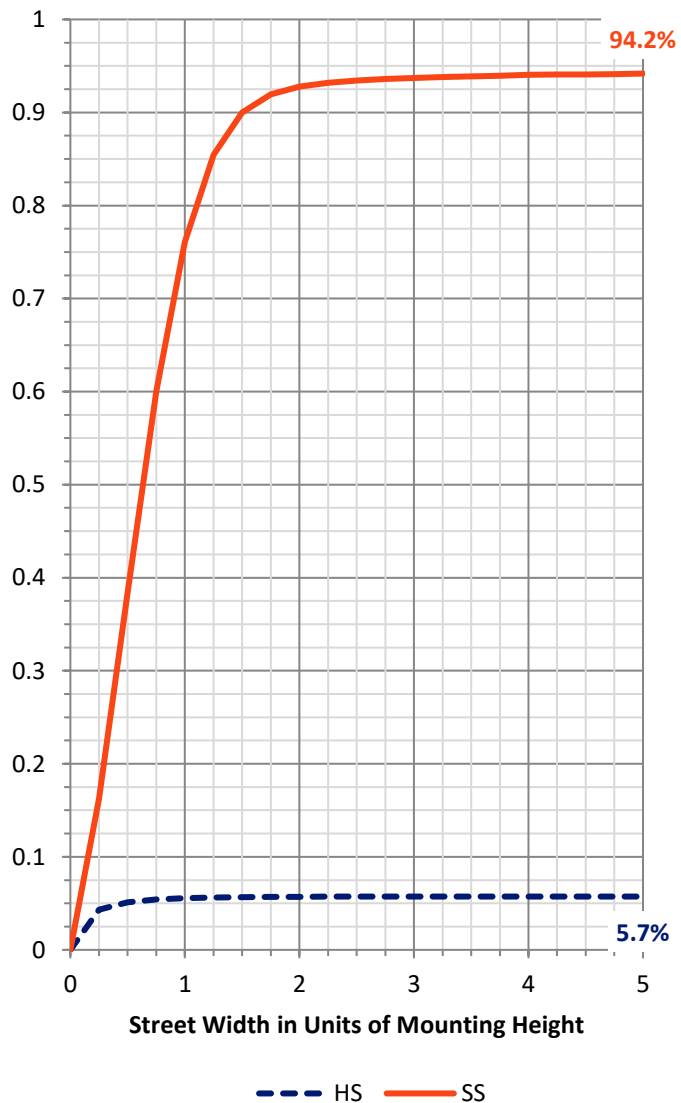
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	511.2	0.0	511.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	8351.6	0.0	8351.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	8862.8	0.0	8862.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.6	1.0
10°-20°	353.1	4.0
20°-30°	755.6	8.5
30°-40°	1388.8	15.7
40°-50°	2129.1	24.0
50°-60°	2252.3	25.4
60°-70°	1470.8	16.6
70°-80°	401.9	4.5
80°-90°	21.6	0.2
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°	8862.8	100.0
0°-180°	8862.8	100.0

**Coefficient of Utilization**

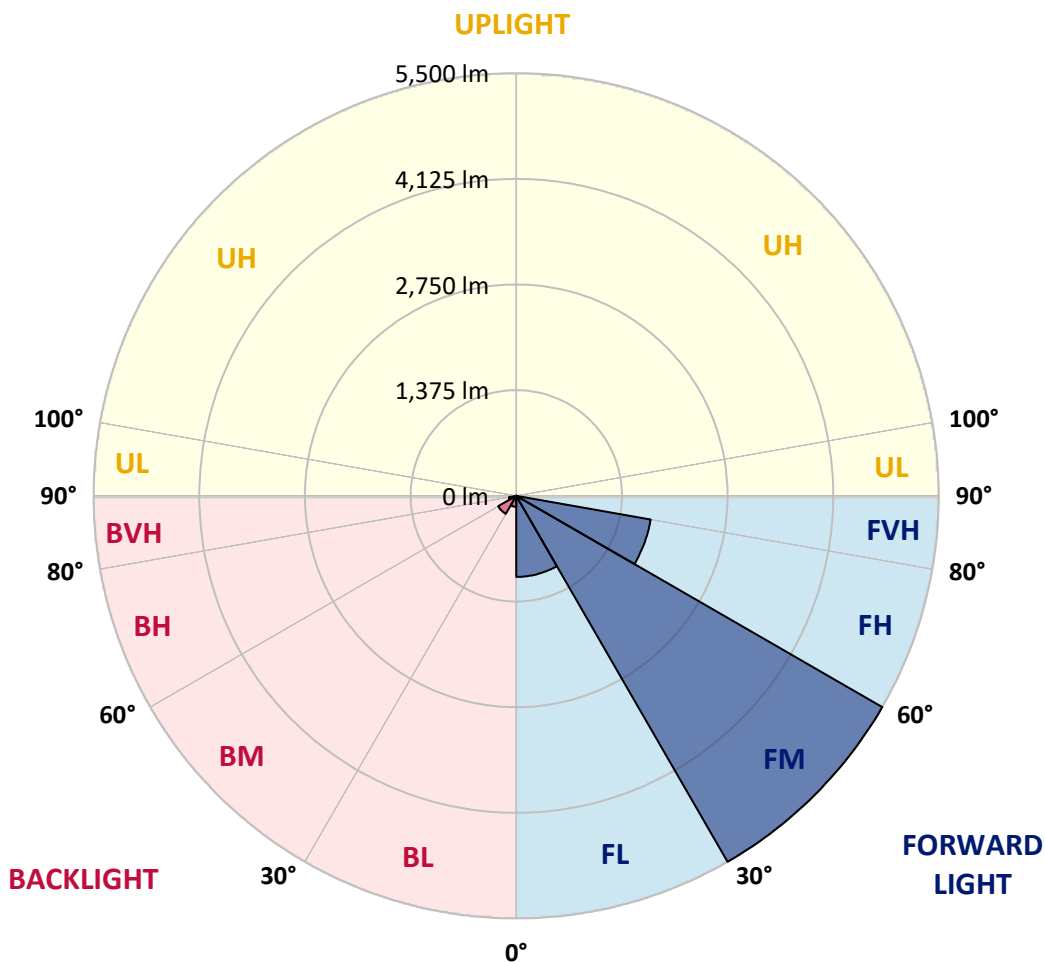


REPORT NUMBER: P646798  
 CATALOG NUMBER: GALN-SA2C-835-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.5	11.9			
FM (30°-60°)	5499.5	62.1			
FH (60°-80°)	1776.7	20.0			G1/1800
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	142.8	1.6	B1/500		
BM (30°-60°)	270.6	3.1	B1/1000		
BH (60°-80°)	96.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	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-G1**  
 Type II Short





REPORT NUMBER: P646798

CATALOG NUMBER: GALN-SA2C-835-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3
2.5°	1086.2	1076.3	1056.7	1050.0	1021.3	976.6	937.4	884.8	843.2	838.9	788.7
5°	1454.5	1432.5	1423.3	1379.3	1310.1	1245.2	1133.9	1049.5	952.1	944.8	843.8
7.5°	1809.4	1778.8	1769.7	1728.0	1647.3	1545.1	1400.6	1247.1	1092.8	1078.8	917.8
10°	2066.4	2070.7	2054.2	2026.6	1961.2	1857.1	1679.1	1469.2	1249.5	1231.7	1001.1
12.5°	2250.6	2250.0	2253.1	2252.5	2217.5	2138.6	1951.4	1709.7	1422.1	1387.2	1096.5
15°	2370.5	2372.3	2381.6	2413.4	2417.0	2368.1	2212.1	1939.7	1622.1	1578.8	1199.9
17.5°	2491.7	2504.6	2519.2	2549.2	2576.1	2556.6	2446.4	2179.6	1803.3	1770.8	1310.7
20°	2691.8	2709.6	2701.0	2719.4	2733.4	2735.3	2650.1	2401.1	2023.0	1968.5	1437.4
22.5°	3011.8	3011.2	2989.2	2956.1	2928.6	2927.4	2850.3	2628.8	2222.5	2169.8	1564.7
25°	3416.3	3418.1	3375.3	3281.1	3212.5	3128.7	3040.0	2828.3	2436.0	2371.2	1698.6
27.5°	3880.1	3868.5	3803.7	3673.9	3538.1	3394.9	3267.0	3060.1	2662.4	2608.6	1852.3
30°	4296.8	4292.6	4216.7	4058.2	3879.5	3735.7	3550.3	3350.8	2955.5	2889.4	2024.2
32.5°	4684.8	4690.9	4585.6	4421.7	4249.1	4083.3	3887.4	3628.7	3243.1	3149.5	2211.4
35°	4987.7	4993.8	4884.9	4748.4	4571.0	4433.3	4246.7	3924.8	3527.0	3448.1	2426.8
37.5°	5149.2	5157.2	5094.1	4991.3	4880.6	4811.5	4637.6	4306.0	3872.2	3824.4	2681.4
40°	5179.8	5189.0	5161.5	5133.9	5127.8	5177.4	5126.6	4755.2	4350.7	4276.0	3060.7
42.5°	5088.0	5100.2	5112.5	5173.7	5298.6	5480.3	5657.1	5364.6	4966.9	4866.5	3524.6
45°	4846.9	4845.7	4894.1	5052.5	5332.2	5720.1	6211.5	6127.7	5806.4	5687.1	4180.0
47.5°	4434.5	4428.4	4533.0	4758.8	5194.5	5764.2	6663.7	7054.1	6877.9	6767.7	4884.3
50°	3806.1	3836.1	4000.7	4315.8	4852.4	5630.8	6803.2	7661.7	7757.2	7640.3	5453.4
52.5°	3070.0	3068.7	3327.0	3754.6	4345.8	5337.1	6705.9	7771.8	8042.9	7953.6	5733.6
55°	2272.0	2287.9	2556.6	2987.9	3688.0	4801.0	6388.3	7658.7	8151.9	8088.9	5918.4
57°	1690.1	1718.2	1933.6	2390.1	3115.2	4270.5	5965.5	7456.1	8194.7	8160.4	6072.0
57.5°	1577.5	1578.8	1788.6	2203.5	2947.6	4066.7	5844.3	7371.7	8193.5	8174.5	6097.1
60°	971.1	1001.7	1146.7	1489.4	2157.6	3174.0	5032.3	6886.4	8129.8	8157.4	6204.2
62.5°	581.3	594.1	688.4	897.7	1390.8	2316.7	4118.2	6265.3	7964.0	8047.8	6196.8
65°	373.9	376.9	419.8	543.4	869.5	1565.8	3173.3	5444.7	7535.0	7689.2	5954.5
67.5°	288.8	293.7	310.9	356.7	504.3	975.4	2244.5	4569.1	6841.1	7040.0	5367.1
70°	256.4	258.9	265.0	279.6	333.5	550.7	1396.4	3569.3	5673.0	5729.3	4200.2
72.5°	209.3	216.0	235.0	239.8	264.3	343.9	777.1	2395.6	3811.6	3825.7	2349.7
75°	162.2	163.4	191.5	205.6	222.8	236.8	346.9	1207.9	1830.8	1732.9	905.6
77.5°	121.1	126.7	139.5	157.2	181.7	169.5	155.4	455.2	568.5	558.0	263.1
80°	77.7	80.8	97.3	118.1	141.3	110.8	87.5	133.4	124.8	128.5	63.0
82.5°	39.2	39.8	62.4	96.1	90.0	55.7	55.0	54.5	46.5	45.9	29.4
85°	4.3	9.2	40.4	55.0	40.4	18.3	25.7	25.1	24.5	25.1	17.1
87.5°	0.6	0.6	6.7	8.0	5.5	6.1	7.4	8.0	9.8	9.2	7.4
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: P646798

CATALOG NUMBER: GALN-SA2C-835-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3	742.3
2.5°	764.3	739.8	694.5	651.1	618.6	597.8	570.9	561.1	547.1	545.2	538.5
5°	797.3	750.8	671.9	609.5	559.3	521.3	488.3	460.8	438.7	433.9	436.3
7.5°	844.5	775.3	665.2	580.1	510.4	445.4	392.8	360.4	337.2	328.6	329.8
10°	897.7	807.7	663.9	548.9	442.4	362.8	305.4	276.6	263.1	258.2	252.8
12.5°	960.7	845.0	660.9	500.6	367.8	289.4	248.4	231.3	218.5	214.8	214.8
15°	1031.7	884.8	646.2	440.6	298.6	239.3	211.7	198.3	193.9	190.3	190.3
17.5°	1105.8	924.0	615.6	366.5	247.8	205.0	187.8	179.9	173.7	169.5	169.5
20°	1190.2	962.5	566.7	301.1	209.3	183.0	169.5	160.4	155.4	151.7	150.5
22.5°	1270.3	993.7	504.3	247.2	182.4	164.6	152.4	142.6	137.7	135.9	135.9
25°	1353.6	1012.7	428.9	204.4	166.5	149.3	135.9	127.9	123.6	122.4	121.8
27.5°	1434.3	1023.7	362.8	178.7	151.7	135.2	122.4	116.3	112.0	110.8	111.3
30°	1532.3	1025.6	298.6	160.4	138.9	121.8	110.2	104.6	102.2	100.9	100.4
32.5°	1631.4	1023.1	250.9	149.3	126.7	110.2	100.4	96.1	94.2	92.4	92.4
35°	1742.7	1010.2	213.5	138.3	115.0	100.4	91.8	88.1	85.7	83.9	83.2
37.5°	1881.0	1003.5	192.1	126.1	104.6	91.1	83.2	79.6	77.7	75.2	74.6
40°	2098.8	1033.5	185.4	115.0	94.2	82.6	75.2	71.0	68.5	66.1	65.5
42.5°	2370.5	1086.2	174.4	104.1	85.0	74.6	67.3	62.4	58.1	55.0	53.9
45°	2722.4	1155.3	157.2	92.4	77.1	66.1	59.4	53.2	47.8	45.3	44.6
47.5°	3091.4	1221.9	142.0	83.2	68.5	58.7	51.4	44.6	39.8	38.0	37.3
50°	3317.8	1235.4	132.2	72.8	60.0	50.8	43.5	37.3	34.3	32.4	32.4
52.5°	3421.2	1214.0	118.7	63.7	52.0	44.6	37.3	32.4	30.6	29.4	28.7
55°	3493.4	1181.0	100.9	55.0	44.6	38.0	33.0	29.4	26.9	25.7	25.1
57°	3535.6	1136.3	87.5	48.3	38.5	33.0	29.4	26.3	23.9	21.5	21.5
57.5°	3537.4	1119.2	83.9	47.8	36.7	31.8	28.7	25.7	22.6	20.2	19.6
60°	3483.0	1001.7	67.3	40.4	29.4	26.9	23.9	20.2	15.9	13.5	12.8
62.5°	3308.0	852.4	55.7	34.3	23.9	20.8	17.1	15.3	11.0	8.0	8.0
65°	3043.1	691.5	47.8	27.6	19.6	15.3	11.6	11.0	6.7	3.7	3.1
67.5°	2660.0	538.5	40.4	22.6	16.5	11.0	8.0	7.4	3.7	1.3	0.0
70°	2026.6	367.1	33.7	18.3	12.2	8.0	5.5	4.3	2.4	0.6	0.0
72.5°	1168.2	201.9	28.1	14.1	9.2	6.1	4.3	2.4	2.4	0.0	0.0
75°	417.3	86.9	21.5	10.4	7.4	4.9	3.1	1.3	1.8	0.6	0.0
77.5°	132.8	46.5	14.1	8.0	6.1	3.7	2.4	1.3	1.3	0.6	0.0
80°	39.2	24.5	8.5	6.7	4.3	3.1	1.8	0.6	1.3	0.6	0.0
82.5°	21.5	12.2	6.7	4.9	4.3	2.4	1.8	0.6	0.6	0.6	0.0
85°	11.0	7.4	5.5	4.9	4.3	2.4	1.8	0.6	0.0	0.6	0.6
87.5°	6.1	5.5	5.5	4.9	4.3	3.1	1.8	0.6	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)