

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: P647937

Luminaire Tested: **GALN-SA5A-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES 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: 14750.2 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

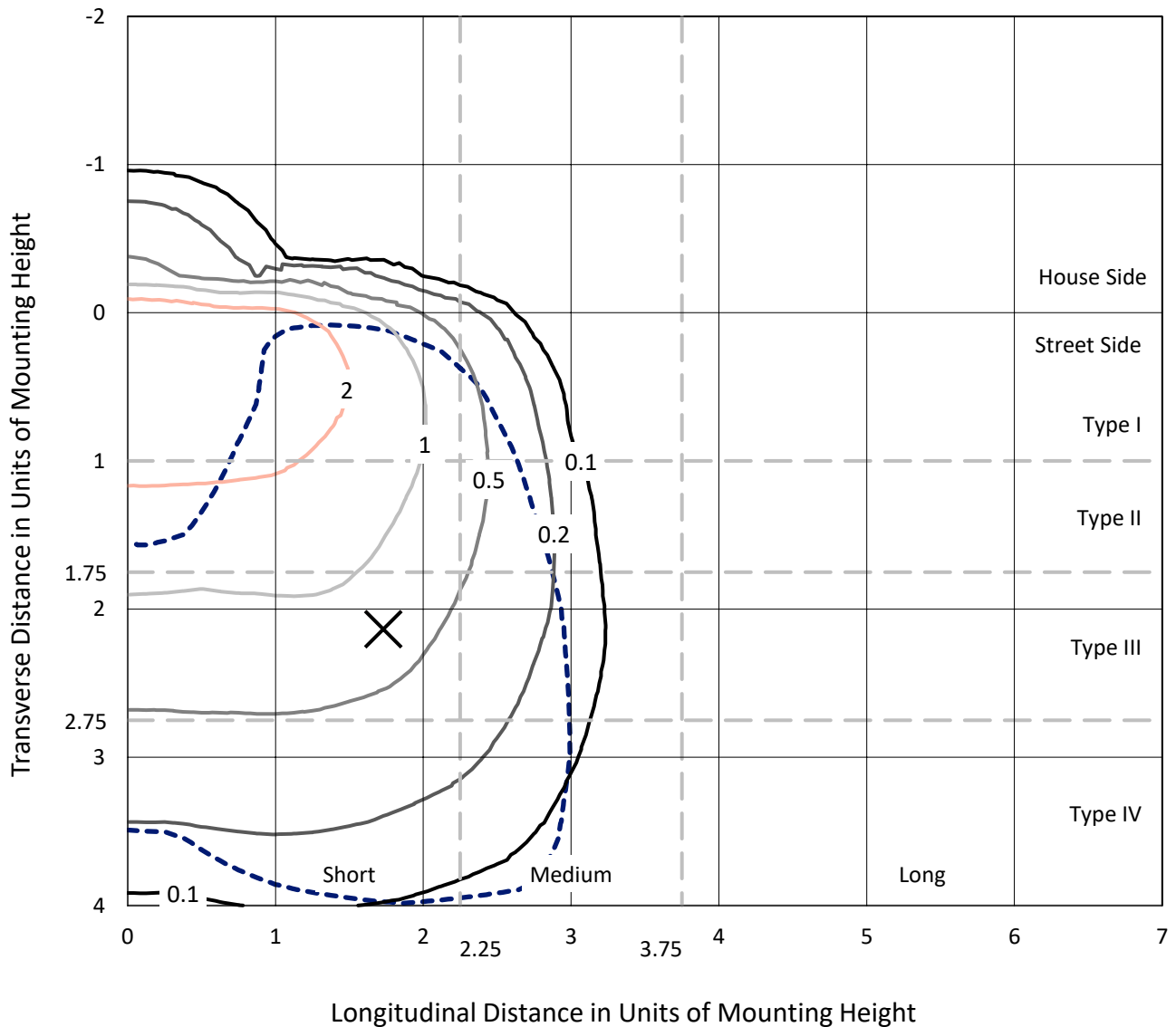
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

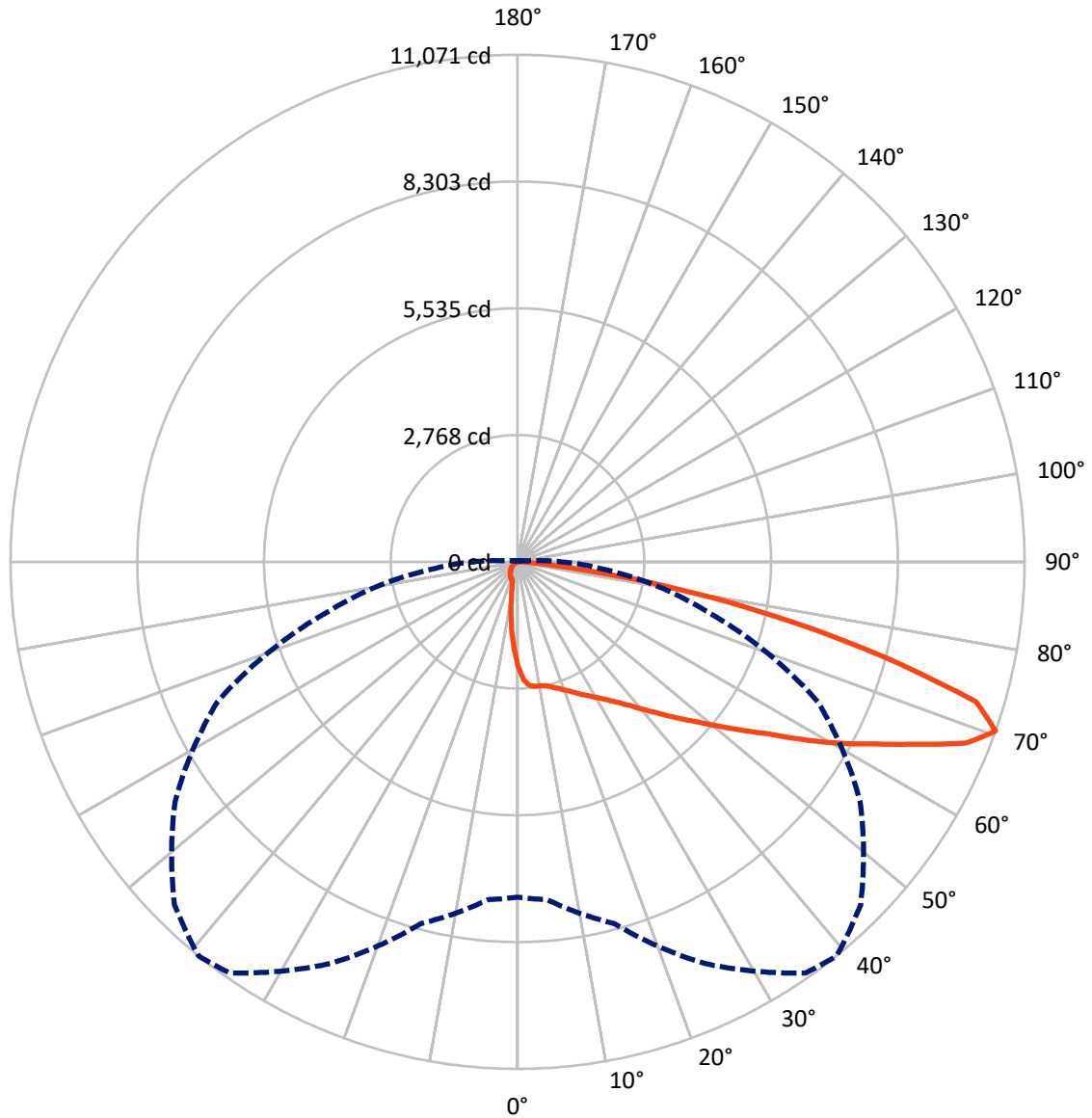
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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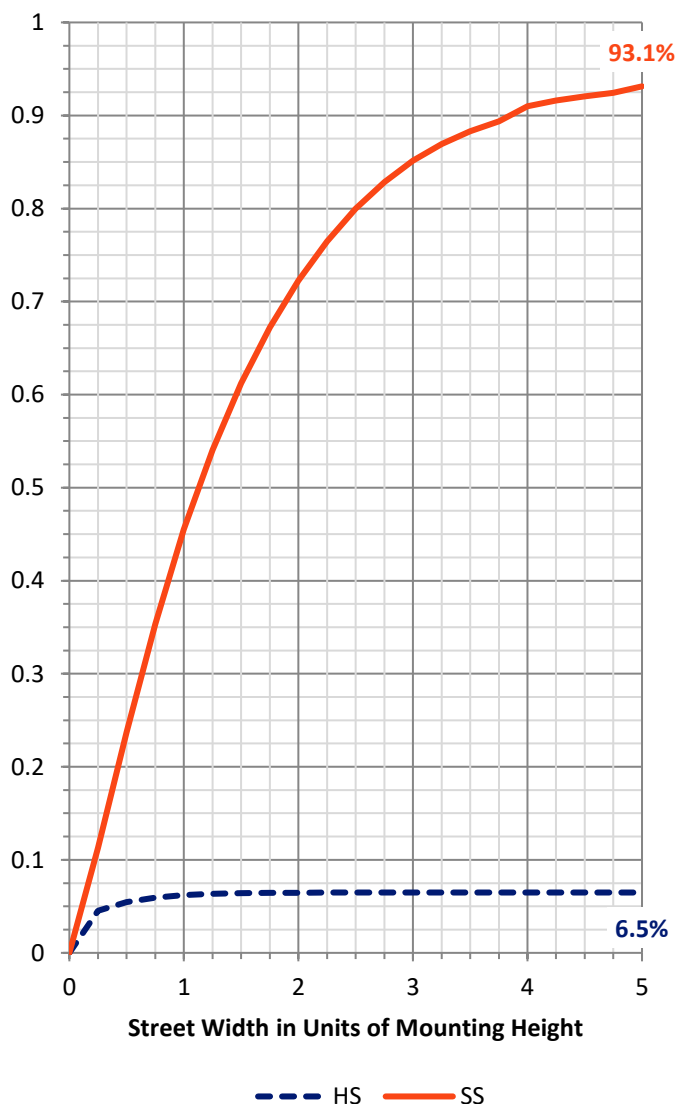
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	961.8	0.0	961.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	13788.4	0.0	13788.4
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	14750.2	0.0	14750.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.3	1.3
10°-20°	510.1	3.5
20°-30°	854.6	5.8
30°-40°	1325.4	9.0
40°-50°	2100.4	14.2
50°-60°	3078.9	20.9
60°-70°	3946.4	26.8
70°-80°	2479.8	16.8
80°-90°	258.3	1.8
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°	14750.2	100.0
0°-180°	14750.2	100.0

**Coefficient of Utilization**

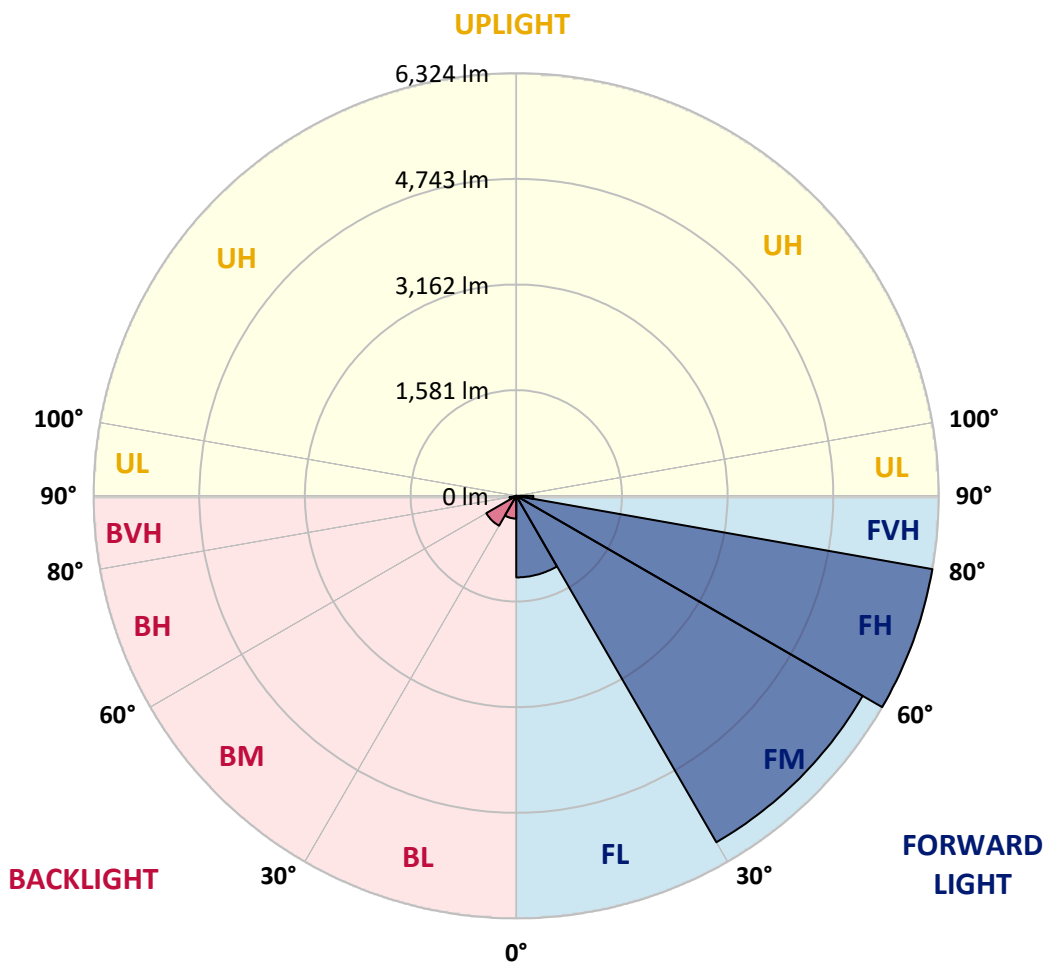


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.5	8.3			
FM (30°-60°)	5987.1	40.6			
FH (60°-80°)	6324.4	42.9			G3/7500
FVH (80°-90°)	256.4	1.7			G3/500
BL (0°-30°)	340.6	2.3	B1/500		
BM (30°-60°)	517.6	3.5	B1/1000		
BH (60°-80°)	101.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6
2.5°	2659.4	2650.5	2638.6	2624.7	2585.0	2578.1	2554.3	2503.7	2443.3	2393.7	2325.4
5°	2785.2	2790.2	2781.3	2756.5	2727.7	2710.9	2681.1	2602.8	2524.5	2424.4	2312.4
7.5°	2813.9	2823.9	2813.0	2789.2	2761.4	2743.6	2719.8	2652.4	2561.2	2447.3	2293.6
10°	2811.0	2822.9	2816.0	2794.1	2771.4	2754.5	2728.8	2675.2	2601.8	2482.0	2299.5
12.5°	2806.0	2821.9	2820.9	2810.0	2791.2	2778.3	2762.4	2714.8	2646.5	2532.5	2332.2
15°	2792.2	2812.0	2829.8	2838.8	2839.7	2839.7	2819.9	2769.4	2703.9	2598.9	2374.8
17.5°	2798.1	2820.9	2865.5	2891.3	2909.2	2907.1	2886.3	2831.8	2759.4	2667.3	2419.5
20°	2834.8	2865.5	2928.0	2979.5	2997.3	2991.4	2963.7	2900.2	2817.9	2725.8	2463.1
22.5°	2925.0	2952.8	3031.1	3091.5	3104.4	3088.5	3048.8	2962.6	2888.3	2789.2	2515.6
25°	3059.8	3092.5	3164.9	3210.5	3210.5	3201.5	3146.0	3044.9	2967.6	2877.4	2584.1
27.5°	3223.3	3251.1	3322.4	3363.1	3339.3	3313.5	3258.0	3136.1	3061.8	2988.4	2666.3
30°	3388.8	3406.7	3482.0	3499.9	3475.1	3442.4	3382.9	3261.0	3195.6	3139.0	2785.2
32.5°	3545.5	3584.1	3646.6	3642.6	3608.9	3593.0	3538.5	3408.7	3372.0	3366.0	2951.8
35°	3702.1	3731.8	3787.3	3801.2	3771.5	3768.5	3728.8	3632.7	3633.7	3672.3	3211.5
37.5°	3836.9	3863.6	3929.0	3959.8	3965.7	3980.6	3964.7	3901.3	3991.5	4097.5	3555.4
40°	3949.8	3987.5	4070.8	4124.3	4185.8	4240.3	4243.2	4257.2	4438.5	4620.9	4004.4
42.5°	4038.1	4090.6	4211.5	4310.6	4451.4	4520.8	4576.3	4652.6	4957.9	5230.5	4533.6
45°	4153.0	4213.6	4364.2	4519.8	4739.8	4853.8	4931.2	5135.3	5568.5	5940.2	5076.8
47.5°	4343.4	4375.1	4528.7	4755.7	5045.1	5207.7	5358.3	5667.6	6223.7	6556.7	5528.8
50°	4588.2	4609.0	4725.0	5040.2	5414.8	5628.9	5903.5	6267.3	6903.6	7068.1	5784.6
52.5°	4858.7	4865.7	4952.9	5353.4	5829.1	6098.8	6406.0	6855.0	7457.7	7432.9	5954.0
55°	5173.0	5163.1	5237.4	5693.3	6319.8	6628.0	6985.8	7456.7	7938.4	7691.6	6051.2
57.5°	5532.8	5506.1	5578.4	6144.4	6948.2	7316.9	7680.7	7976.0	8311.1	7908.7	6097.8
60°	5909.5	5855.9	5942.2	6650.9	7688.6	8038.5	8340.8	8420.1	8703.6	8081.1	6017.5
62.5°	6209.7	6210.8	6371.3	7190.1	8449.8	8756.1	8916.7	8988.1	9041.6	8043.4	5595.2
65°	6678.6	6694.5	6951.2	7938.4	9331.0	9596.7	9706.7	9474.8	9056.4	7575.6	4960.9
67.5°	7162.3	7212.8	7682.6	8969.3	10349.0	10563.1	10421.3	9568.9	8652.1	6508.1	3761.5
70°	7319.9	7403.2	8177.3	9678.9	10959.5	11070.5	10590.8	9129.8	7232.6	4351.3	1893.1
72.5°	6707.3	6842.2	7892.8	9420.2	10570.0	10473.9	9475.7	7656.9	4598.1	1652.3	577.9
75°	4729.9	4789.4	6559.7	7814.5	8501.4	8228.8	7207.9	4936.1	1891.2	463.8	198.3
77.5°	2442.3	2413.5	3901.3	5184.9	6063.1	5780.6	4720.0	2555.2	716.6	193.2	122.9
80°	1262.7	1283.6	1688.0	2716.9	3701.1	3405.7	2516.6	1184.4	381.6	107.0	94.2
82.5°	707.7	664.1	970.4	1186.5	1730.6	1356.9	965.4	838.5	166.5	64.4	89.2
85°	128.9	134.8	532.3	641.3	600.6	381.6	311.2	560.0	48.5	35.7	62.5
87.5°	2.0	2.0	103.1	184.4	117.0	53.6	98.1	80.3	9.9	13.9	10.9
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°	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6	2301.6
2.5°	2290.6	2252.9	2182.6	2113.2	2025.0	1952.6	1904.1	1853.5	1802.0	1805.9	1817.8
5°	2251.0	2185.6	2046.8	1900.1	1759.3	1632.5	1507.6	1395.6	1350.0	1308.4	1310.4
7.5°	2211.3	2119.2	1915.9	1686.0	1472.9	1256.8	1100.2	971.4	903.0	851.4	836.6
10°	2193.5	2071.6	1796.0	1479.9	1177.6	941.6	740.4	635.3	554.1	528.3	535.3
12.5°	2201.4	2047.8	1688.0	1293.5	933.7	656.2	515.4	461.9	444.0	441.1	439.1
15°	2216.3	2030.9	1581.9	1087.4	685.9	487.7	433.2	423.2	421.3	419.3	420.2
17.5°	2236.1	2016.1	1468.9	894.0	526.3	426.2	410.4	405.4	404.4	404.4	404.4
20°	2255.9	1999.2	1343.1	721.6	439.1	402.4	392.5	389.5	388.5	388.5	387.6
22.5°	2278.8	1984.4	1215.2	567.0	404.4	385.5	376.6	374.7	373.6	372.7	372.7
25°	2311.4	1965.5	1079.4	463.8	382.6	369.7	360.8	358.8	357.8	353.8	354.9
27.5°	2355.0	1951.6	939.7	400.4	362.8	349.9	344.0	341.0	339.0	336.0	337.0
30°	2414.5	1939.7	791.0	365.7	340.0	329.1	323.1	321.1	319.2	316.2	316.2
32.5°	2517.6	1944.7	634.4	338.0	319.2	306.3	300.4	298.3	296.4	293.4	293.4
35°	2672.2	1973.5	507.5	314.2	294.4	281.5	275.5	275.5	272.6	268.6	267.6
37.5°	2925.0	2046.8	407.4	291.4	270.6	258.7	251.7	249.8	246.8	240.9	239.8
40°	3223.3	2160.8	343.0	268.6	248.8	236.9	231.0	225.0	217.0	211.1	210.2
42.5°	3598.0	2277.7	297.4	245.8	228.0	217.0	210.2	200.2	188.3	180.4	179.4
45°	3988.5	2384.8	266.6	225.0	208.1	199.2	191.3	175.5	160.6	150.6	149.6
47.5°	4280.0	2404.6	241.9	205.1	191.3	182.4	171.5	151.7	131.9	122.9	120.0
50°	4417.7	2308.4	216.1	185.3	174.5	164.5	150.6	127.9	106.0	95.1	93.2
52.5°	4466.3	2142.0	195.3	167.5	157.6	145.7	128.9	103.1	83.2	72.3	71.3
55°	4446.4	1931.8	176.4	150.6	137.8	123.9	107.0	82.3	61.5	52.5	50.6
57.5°	4342.4	1664.2	157.6	133.8	117.9	104.1	85.3	61.5	41.7	33.7	32.7
60°	4061.9	1299.5	138.7	114.9	100.1	85.3	67.4	43.6	25.8	18.9	18.9
62.5°	3588.1	964.4	120.9	96.2	84.3	68.4	47.6	27.7	13.9	9.9	8.9
65°	2998.3	711.7	101.1	81.3	70.4	53.6	33.7	16.8	7.0	3.0	2.0
67.5°	2092.4	439.1	84.3	66.4	57.5	38.7	20.8	7.0	3.0	0.0	0.0
70°	950.6	209.1	64.4	50.6	43.6	27.7	10.9	4.0	2.0	0.0	0.0
72.5°	295.3	110.0	45.6	36.6	29.8	17.9	6.0	3.0	2.0	0.0	0.0
75°	136.8	70.4	28.7	19.8	16.8	8.9	4.0	2.0	1.0	0.0	0.0
77.5°	102.1	54.5	16.8	10.9	8.9	6.0	3.0	2.0	1.0	0.0	0.0
80°	89.2	27.7	9.9	7.0	4.9	4.0	2.0	1.0	0.0	0.0	0.0
82.5°	80.3	13.9	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
85°	43.6	7.9	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	3.0	2.0	2.0	1.0	1.0	1.0	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)