

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: P647992

Luminaire Tested: **GALN-SA6A-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647992  
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-SA6A-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 17466.4 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

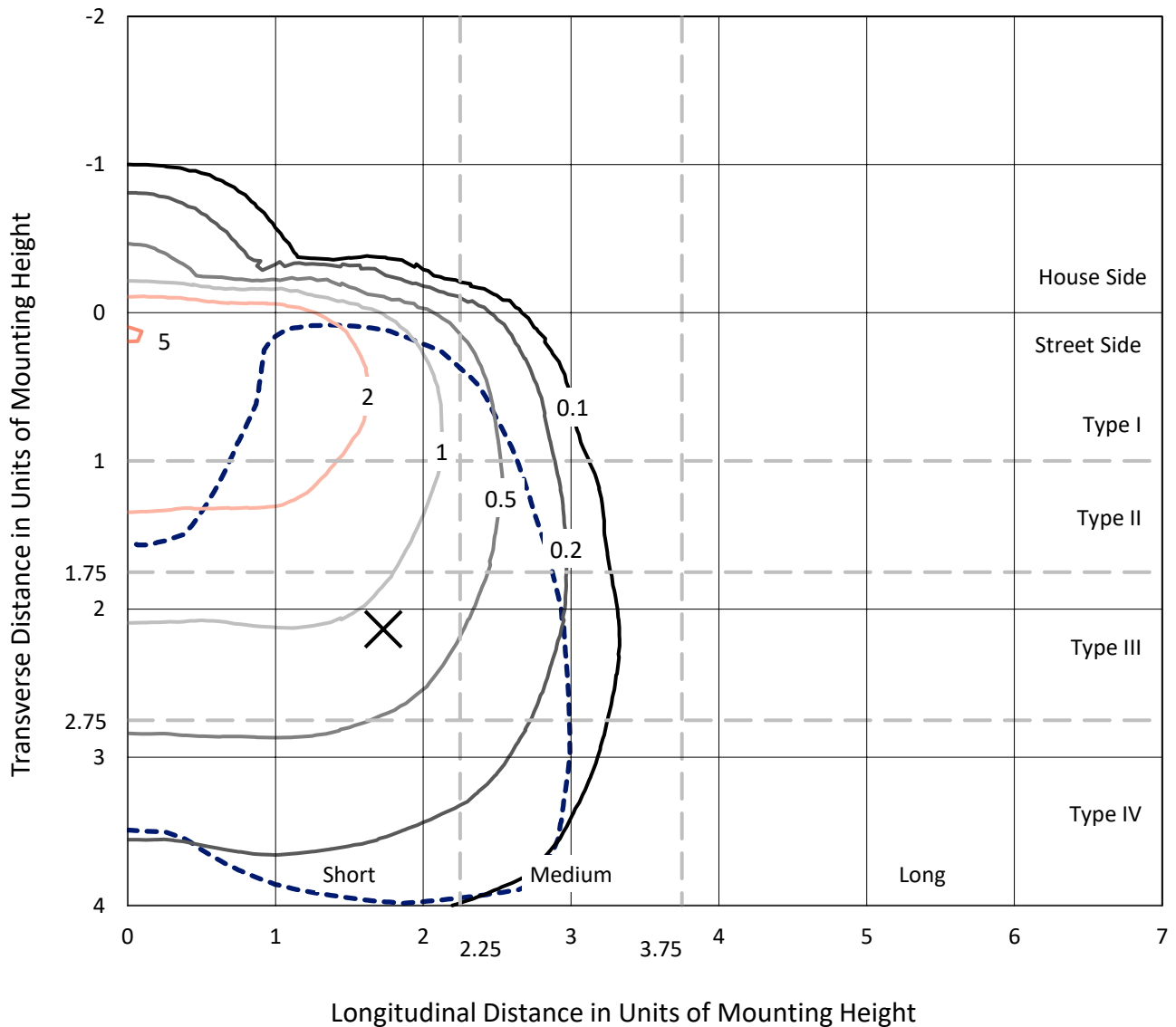
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

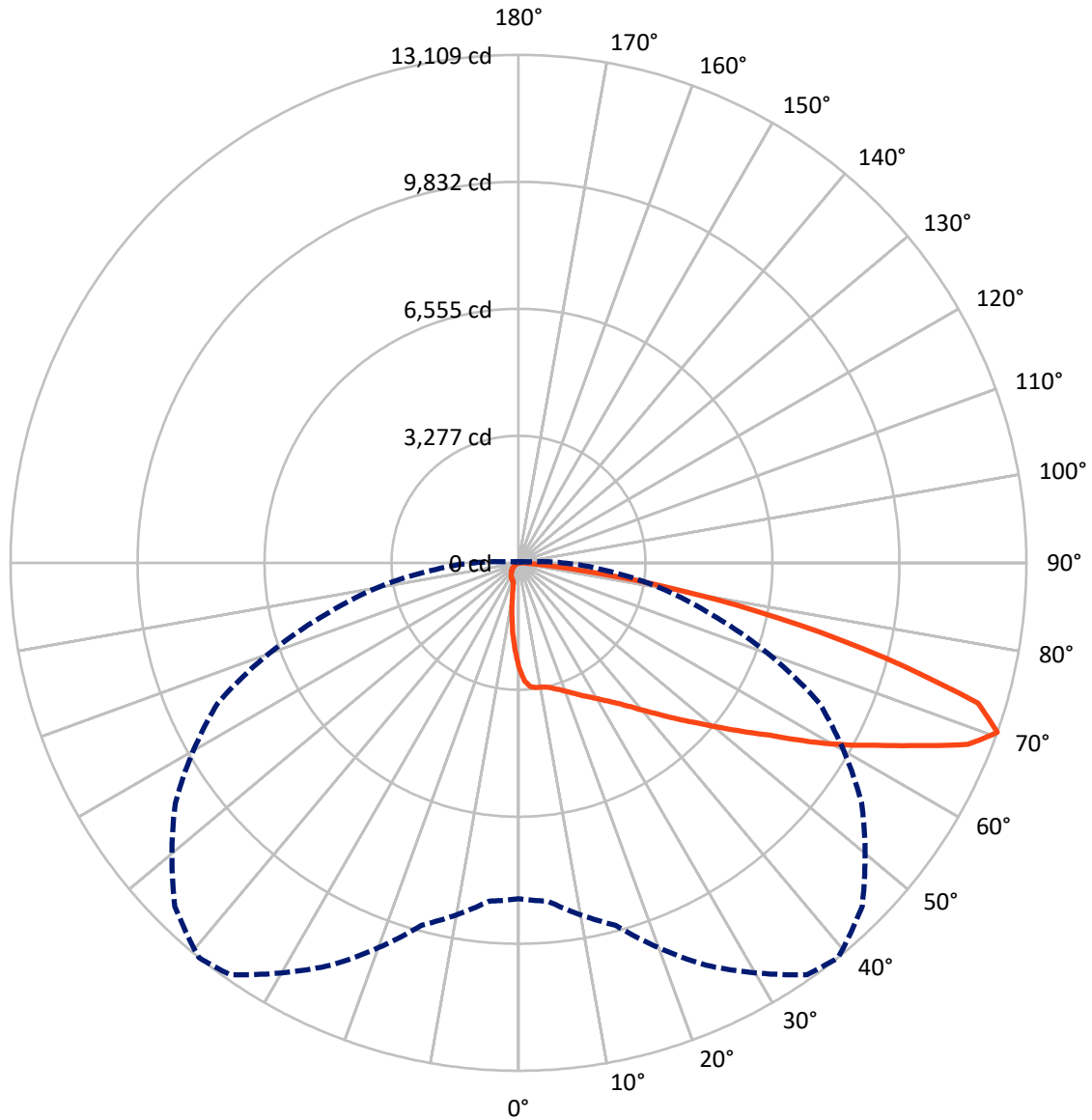
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type 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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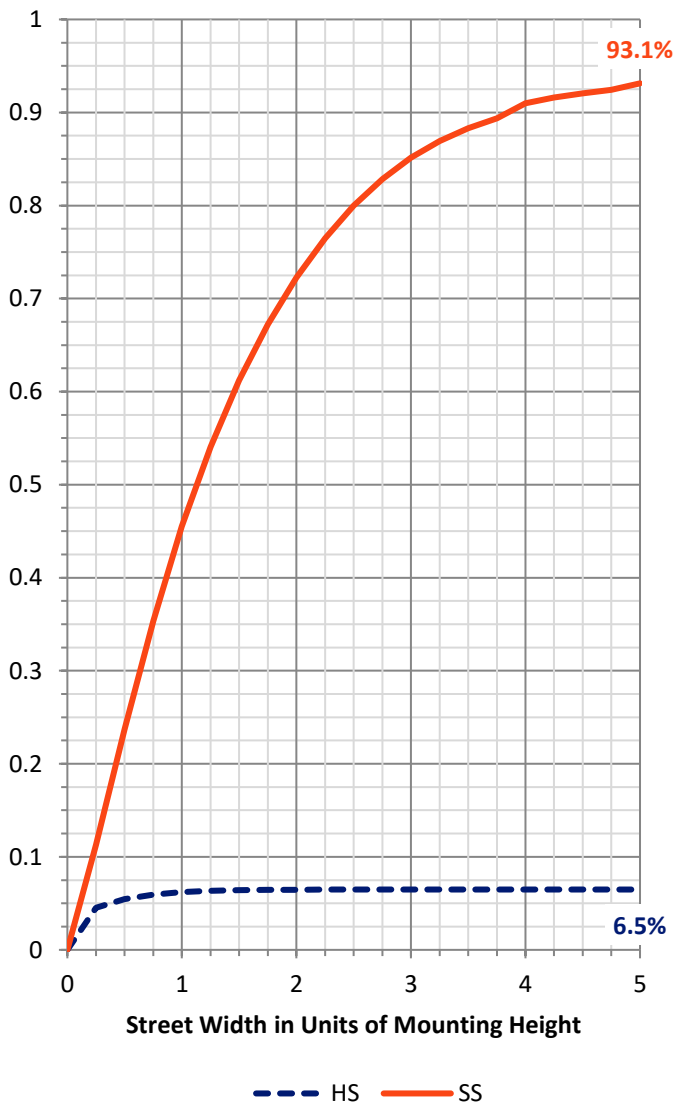
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1138.9	0.0	1138.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	16327.5	0.0	16327.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	17466.4	0.0	17466.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.5	1.3
10°-20°	604.1	3.5
20°-30°	1012.0	5.8
30°-40°	1569.5	9.0
40°-50°	2487.2	14.2
50°-60°	3645.8	20.9
60°-70°	4673.1	26.8
70°-80°	2936.4	16.8
80°-90°	305.9	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°	17466.4	100.0
0°-180°	17466.4	100.0

**Coefficient of Utilization**

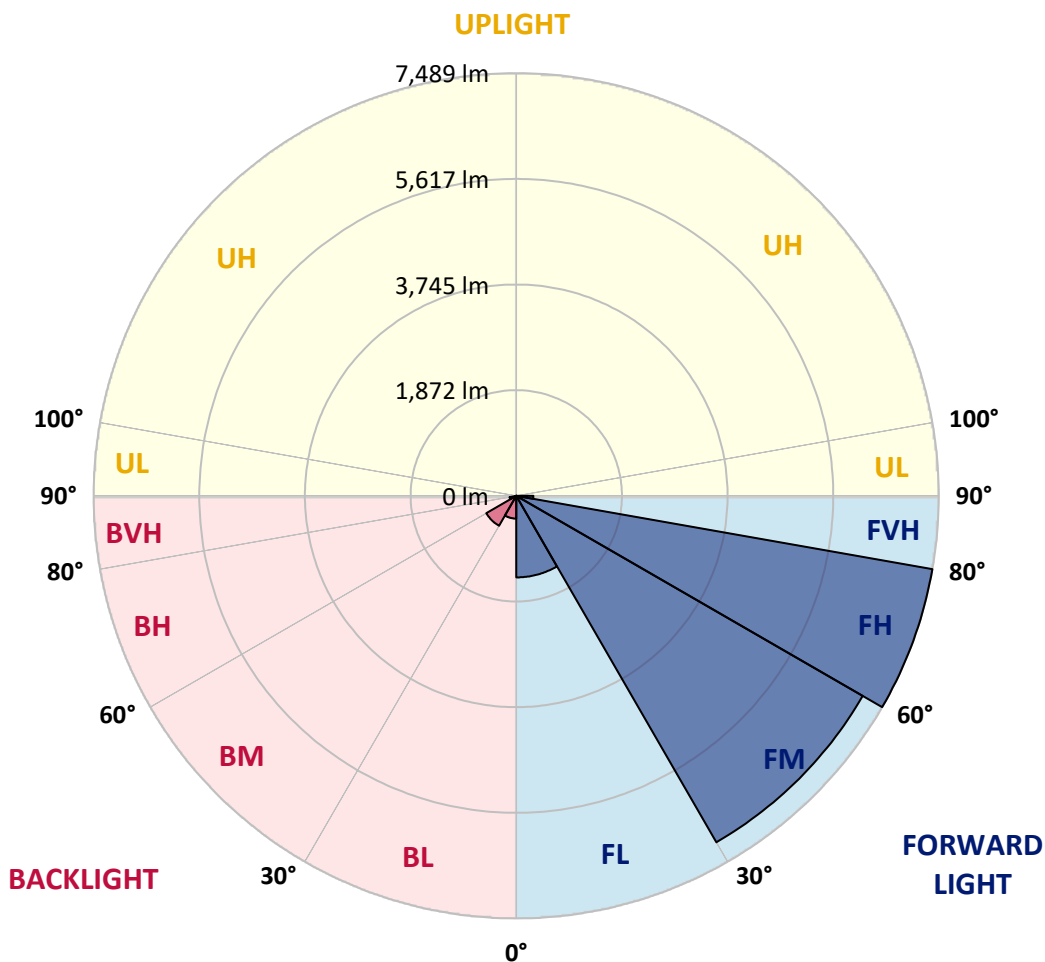


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.3	8.3			
FM (30°-60°)	7089.6	40.6			
FH (60°-80°)	7489.0	42.9			G3/7500
FVH (80°-90°)	303.7	1.7			G3/500
BL (0°-30°)	403.3	2.3	B1/500		
BM (30°-60°)	612.9	3.5	B1/1000		
BH (60°-80°)	120.4	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	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°	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4
2.5°	3149.1	3138.5	3124.4	3108.0	3061.1	3052.8	3024.7	2964.8	2893.2	2834.5	2753.5
5°	3298.2	3304.0	3293.5	3264.1	3230.0	3210.1	3174.9	3082.2	2989.4	2870.9	2738.2
7.5°	3332.1	3343.9	3331.0	3302.9	3270.0	3248.8	3220.6	3140.8	3032.9	2897.9	2716.0
10°	3328.6	3342.7	3334.5	3308.7	3281.7	3261.7	3231.2	3167.9	3081.0	2939.0	2723.0
12.5°	3322.7	3341.5	3340.4	3327.4	3305.2	3289.9	3271.1	3214.8	3133.8	2998.8	2761.7
15°	3306.4	3329.8	3350.9	3361.5	3362.7	3362.7	3339.2	3279.4	3201.8	3077.5	2812.2
17.5°	3313.4	3340.4	3393.2	3423.7	3444.8	3442.5	3417.9	3353.3	3267.6	3158.5	2865.0
20°	3356.8	3393.2	3467.1	3528.2	3549.3	3542.3	3509.4	3434.2	3336.8	3227.7	2916.7
22.5°	3463.6	3496.5	3589.2	3660.8	3676.0	3657.3	3610.3	3508.2	3420.2	3302.9	2978.8
25°	3623.3	3662.0	3747.7	3801.6	3801.6	3791.1	3725.4	3605.6	3514.1	3407.3	3059.9
27.5°	3816.9	3849.8	3934.3	3982.4	3954.2	3923.7	3858.0	3713.6	3625.6	3538.8	3157.3
30°	4013.0	4034.0	4123.3	4144.3	4115.1	4076.3	4005.9	3861.5	3784.0	3717.1	3298.2
32.5°	4198.4	4244.2	4318.1	4313.4	4273.5	4254.7	4190.1	4036.4	3993.0	3985.9	3495.3
35°	4383.8	4419.0	4484.7	4501.2	4466.0	4462.5	4415.5	4301.6	4302.8	4348.6	3802.8
37.5°	4543.4	4575.1	4652.6	4689.0	4696.0	4713.6	4694.9	4619.7	4726.5	4852.1	4210.1
40°	4677.3	4721.8	4820.5	4883.8	4956.5	5021.1	5024.7	5041.1	5255.9	5471.8	4741.8
42.5°	4781.7	4843.9	4987.1	5104.5	5271.2	5353.3	5419.0	5509.4	5870.9	6193.7	5368.6
45°	4917.9	4989.4	5167.9	5352.1	5612.7	5747.7	5839.2	6081.0	6593.9	7034.1	6011.7
47.5°	5143.2	5180.7	5362.7	5631.5	5974.2	6166.7	6345.0	6711.2	7369.8	7764.1	6547.0
50°	5433.1	5457.7	5595.1	5968.3	6412.0	6665.5	6990.6	7421.4	8174.9	8369.7	6849.8
52.5°	5753.6	5761.7	5865.1	6339.2	6902.6	7221.8	7585.7	8117.4	8831.0	8801.6	7050.4
55°	6125.6	6113.8	6201.9	6741.8	7483.6	7848.6	8272.3	8829.8	9400.2	9108.0	7165.5
57.5°	6551.7	6520.0	6605.6	7275.8	8227.7	8664.4	9095.1	9444.9	9841.5	9365.0	7220.7
60°	6997.7	6934.2	7036.4	7875.6	9104.5	9518.8	9876.8	9970.6	10306.3	9569.3	7125.6
62.5°	7353.3	7354.5	7544.6	8514.1	10005.9	10368.6	10558.7	10643.2	10706.6	9524.6	6625.6
65°	7908.5	7927.2	8231.2	9400.2	11049.3	11363.8	11494.1	11219.5	10724.2	8970.7	5874.5
67.5°	8481.2	8541.1	9097.4	10620.9	12254.7	12508.2	12340.4	11331.0	10245.3	7706.6	4454.3
70°	8667.8	8766.5	9683.1	11461.2	12977.7	13109.1	12541.1	10811.0	8564.5	5152.6	2241.8
72.5°	7942.5	8102.1	9346.3	11154.9	12516.4	12402.6	11220.7	9066.9	5444.8	1956.6	684.3
75°	5601.0	5671.3	7767.6	9253.5	10066.9	9744.1	8535.2	5845.1	2239.5	549.3	234.7
77.5°	2892.0	2858.0	4619.7	6139.7	7179.6	6845.1	5589.2	3025.8	848.6	228.9	145.6
80°	1495.3	1520.0	1998.8	3217.1	4382.6	4032.8	2980.0	1402.6	451.9	126.8	111.5
82.5°	838.0	786.4	1149.1	1404.9	2049.3	1606.8	1143.2	992.9	197.2	76.3	105.6
85°	152.6	159.7	630.3	759.4	711.3	451.9	368.6	663.1	57.6	42.3	73.9
87.5°	2.3	2.3	122.1	218.3	138.5	63.3	116.2	95.1	11.7	16.4	12.9
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°	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4
2.5°	2712.5	2667.8	2584.5	2502.3	2397.9	2312.2	2254.7	2194.8	2133.8	2138.5	2152.5
5°	2665.5	2588.0	2423.7	2250.0	2083.3	1933.1	1785.2	1652.6	1598.6	1549.3	1551.7
7.5°	2618.5	2509.4	2268.7	1996.5	1744.1	1488.2	1302.8	1150.2	1069.3	1008.2	990.6
10°	2597.4	2453.1	2126.8	1752.4	1394.4	1115.0	876.7	752.4	656.1	625.6	633.8
12.5°	2606.8	2424.9	1998.8	1531.7	1105.6	777.0	610.3	546.9	525.8	522.3	520.0
15°	2624.4	2404.9	1873.2	1287.6	812.2	577.5	512.9	501.2	498.8	496.5	497.7
17.5°	2647.9	2387.3	1739.4	1058.7	623.3	504.7	485.9	480.1	478.9	478.9	478.9
20°	2671.4	2367.4	1590.4	854.5	520.0	476.5	464.8	461.3	460.1	460.1	458.9
22.5°	2698.4	2349.8	1439.0	671.3	478.9	456.6	446.0	443.6	442.5	441.3	441.3
25°	2737.1	2327.5	1278.2	549.3	453.0	437.8	427.2	424.9	423.7	419.0	420.2
27.5°	2788.7	2311.0	1112.6	474.2	429.6	414.3	407.2	403.8	401.4	397.9	399.1
30°	2859.1	2296.9	936.6	433.1	402.6	389.7	382.7	380.3	378.0	374.4	374.4
32.5°	2981.2	2302.8	751.2	400.3	378.0	362.7	355.6	353.3	350.9	347.4	347.4
35°	3164.3	2336.9	601.0	372.1	348.6	333.3	326.3	326.3	322.8	318.1	316.9
37.5°	3463.6	2423.7	482.4	345.1	320.4	306.3	298.1	295.7	292.2	285.2	284.1
40°	3816.9	2558.7	406.1	318.1	294.6	280.5	273.5	266.5	257.1	250.0	248.8
42.5°	4260.5	2697.2	352.1	291.0	270.0	257.1	248.8	237.1	223.0	213.6	212.4
45°	4723.0	2824.0	315.7	266.5	246.5	235.9	226.5	207.7	190.1	178.4	177.2
47.5°	5068.0	2847.5	286.4	243.0	226.5	216.0	203.0	179.5	156.1	145.6	142.0
50°	5231.2	2733.6	255.9	219.5	206.6	194.8	178.4	151.4	125.6	112.7	110.3
52.5°	5288.8	2536.4	231.2	198.3	186.6	172.6	152.6	122.1	98.6	85.7	84.5
55°	5265.3	2287.5	208.9	178.4	163.2	146.7	126.8	97.4	72.7	62.2	59.8
57.5°	5142.0	1970.7	186.6	158.5	139.7	123.2	100.9	72.7	49.3	39.9	38.8
60°	4809.9	1538.8	164.4	136.2	118.5	100.9	79.8	51.7	30.5	22.3	22.3
62.5°	4248.8	1142.0	143.2	113.8	99.8	81.0	56.4	32.9	16.4	11.7	10.6
65°	3550.4	842.7	119.7	96.2	83.3	63.3	39.9	20.0	8.2	3.5	2.3
67.5°	2477.7	520.0	99.8	78.6	68.0	45.8	24.7	8.2	3.5	0.0	0.0
70°	1125.6	247.7	76.3	59.8	51.7	32.9	12.9	4.7	2.3	0.0	0.0
72.5°	349.8	130.3	54.0	43.5	35.2	21.1	7.0	3.5	2.3	0.0	0.0
75°	162.0	83.3	34.1	23.5	20.0	10.6	4.7	2.3	1.2	0.0	0.0
77.5°	120.9	64.5	20.0	12.9	10.6	7.0	3.5	2.3	1.2	0.0	0.0
80°	105.6	32.9	11.7	8.2	5.9	4.7	2.3	1.2	0.0	0.0	0.0
82.5°	95.1	16.4	7.0	4.7	3.5	2.3	1.2	1.2	0.0	0.0	0.0
85°	51.7	9.4	4.7	3.5	2.3	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	3.5	2.3	2.3	1.2	1.2	1.2	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)