

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: P647929

Luminaire Tested: **GALN-SA5A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10466.4 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

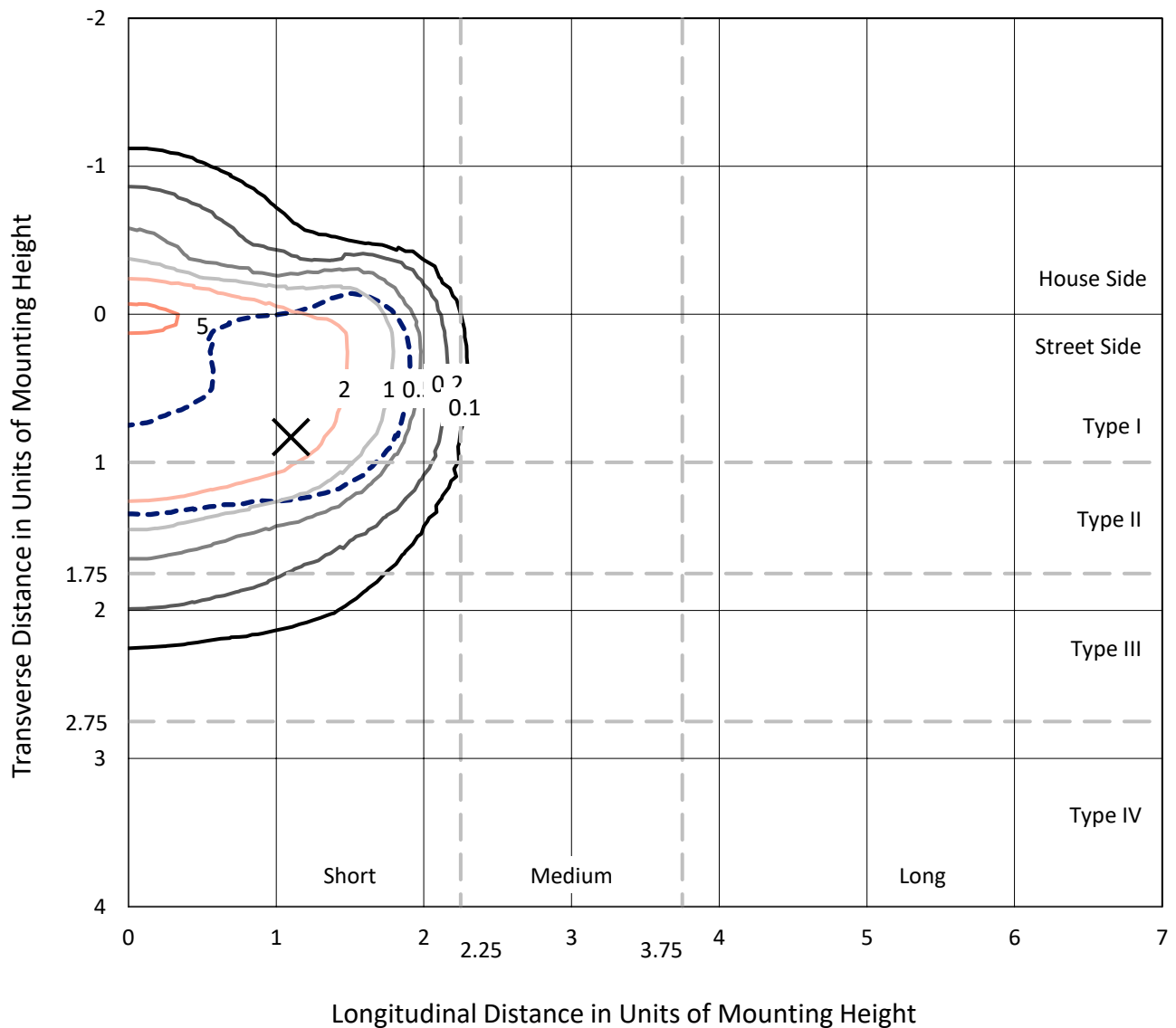
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

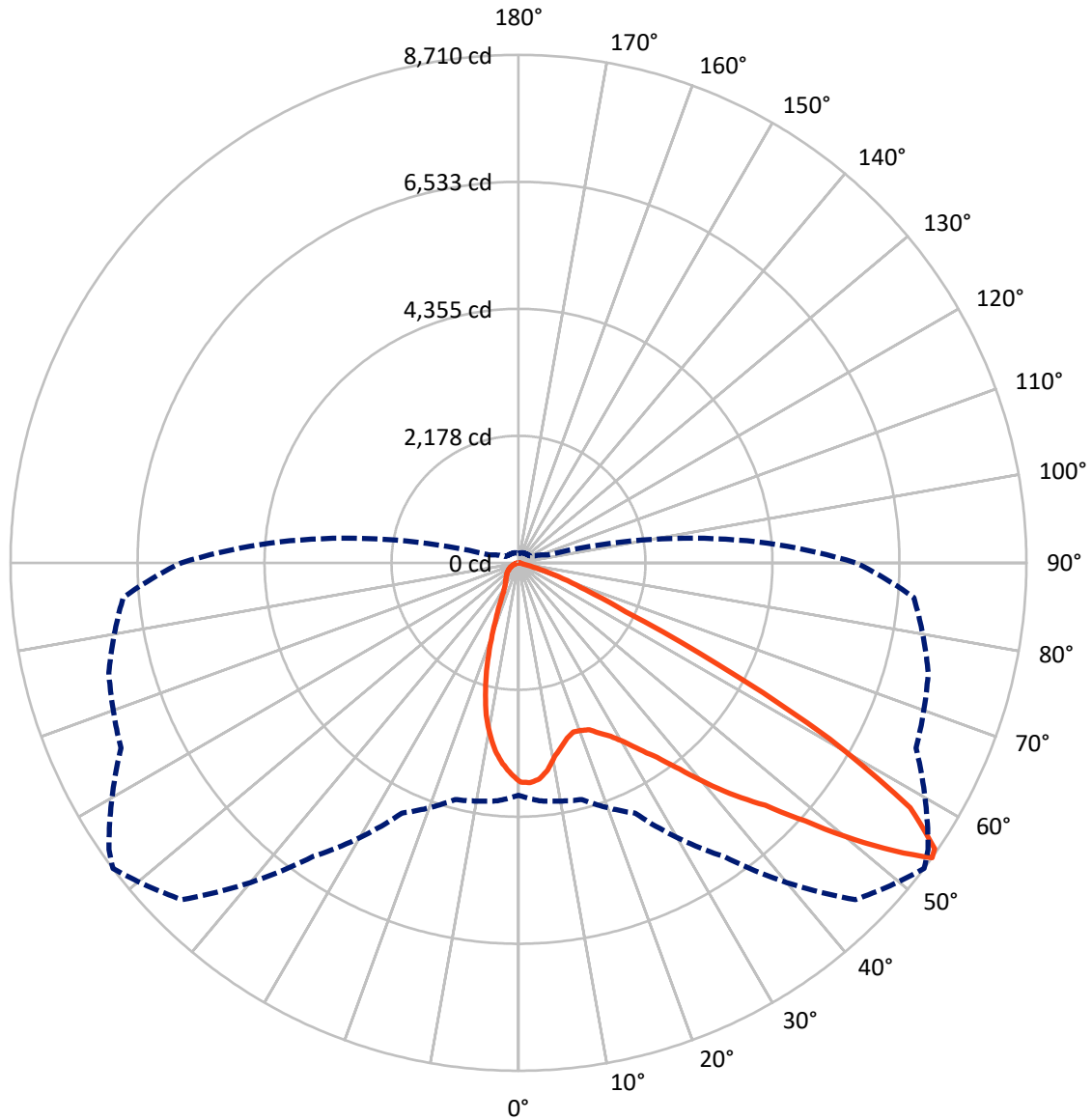
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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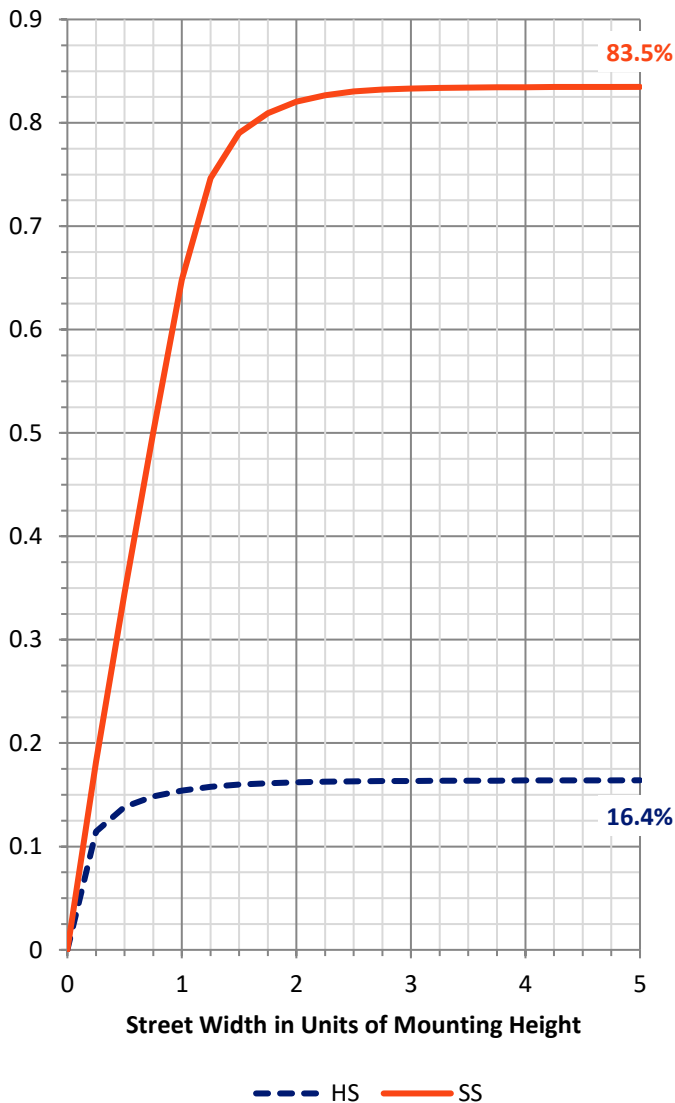
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1731.7	0.0	1731.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8734.7	0.0	8734.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10466.4	0.0	10466.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.5	3.1
10°-20°	739.5	7.1
20°-30°	1051.0	10.0
30°-40°	1621.9	15.5
40°-50°	2543.0	24.3
50°-60°	2954.1	28.2
60°-70°	1116.2	10.7
70°-80°	106.1	1.0
80°-90°	12.0	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°	10466.4	100.0
0°-180°	10466.4	100.0

**Coefficient of Utilization**

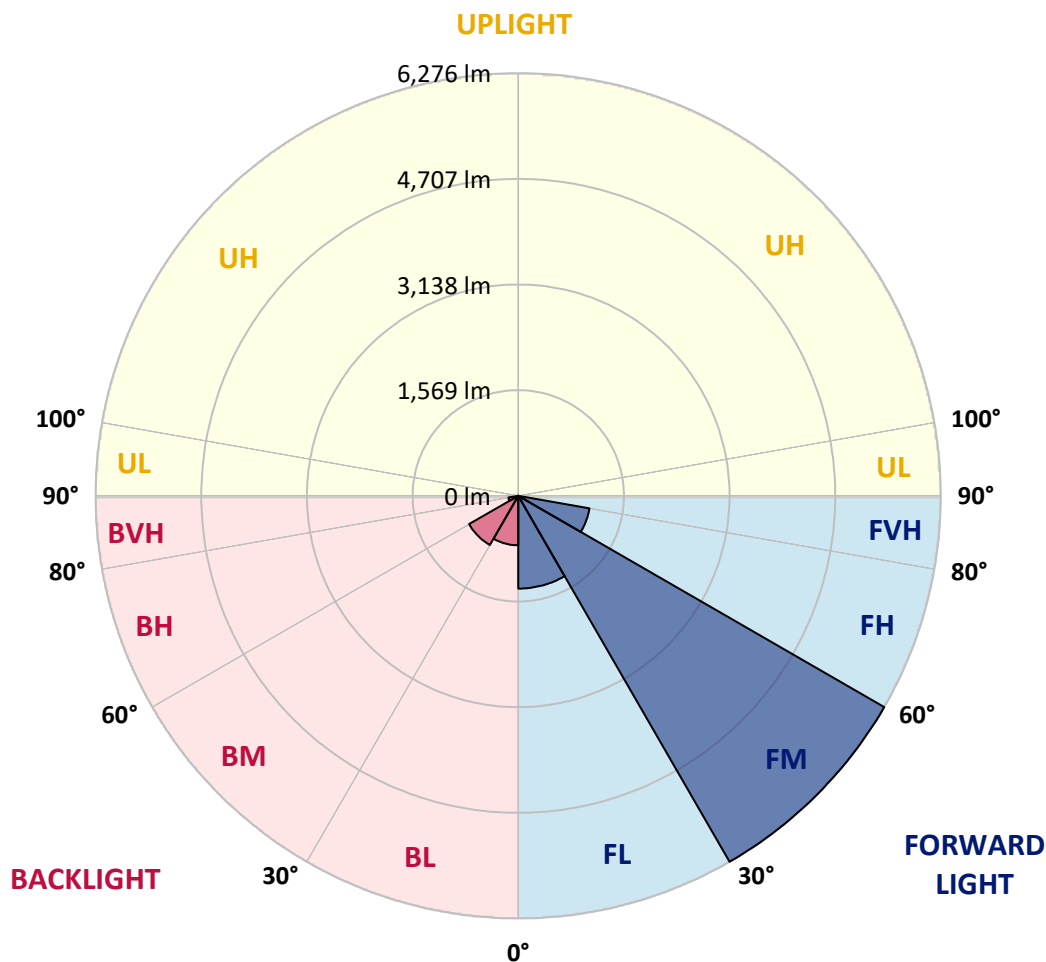


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.1	13.2			
FM (30°-60°)	6276.3	60.0			
FH (60°-80°)	1074.0	10.3			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	734.9	7.0	B2/1000		
BM (30°-60°)	842.7	8.1	B1/1000		
BH (60°-80°)	148.4	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3
2.5°	3739.8	3706.7	3739.8	3743.8	3767.2	3788.6	3774.9	3806.2	3788.6	3769.1	3763.3
5°	3437.6	3482.5	3484.4	3554.6	3539.0	3667.7	3724.3	3708.7	3804.2	3798.3	3784.7
7.5°	3166.6	3149.1	3172.4	3254.3	3357.7	3505.9	3587.8	3585.8	3722.3	3819.8	3810.0
10°	2915.0	2913.1	2961.9	3026.2	3113.9	3269.9	3383.0	3439.6	3652.1	3800.3	3821.7
12.5°	2745.4	2737.6	2790.2	2842.9	2981.4	3102.2	3246.6	3273.8	3517.5	3732.0	3767.2
15°	2634.2	2651.8	2655.7	2757.1	2844.9	3004.8	3117.8	3174.4	3455.1	3677.4	3812.0
17.5°	2614.8	2638.2	2640.1	2724.0	2817.5	2952.1	3051.5	3127.6	3402.5	3704.8	3813.9
20°	2653.7	2640.1	2651.8	2704.5	2796.1	2924.8	3069.1	3094.4	3385.0	3718.4	3835.4
22.5°	2764.9	2761.0	2731.7	2774.6	2839.0	2973.5	3110.0	3149.1	3435.6	3788.6	3852.9
25°	2887.8	2909.2	2881.9	2876.0	2920.9	3053.5	3234.8	3285.5	3605.3	3915.3	3907.6
27.5°	3117.8	3096.4	3096.4	3069.1	3057.4	3121.7	3369.4	3453.2	3794.4	4079.1	3969.9
30°	3338.2	3361.6	3344.0	3353.7	3275.8	3269.9	3560.5	3663.8	4129.8	4328.7	4102.5
32.5°	3687.2	3656.0	3685.3	3659.9	3556.5	3451.2	3819.8	3927.1	4535.4	4615.3	4301.4
35°	3977.7	3964.1	4088.9	4085.0	3917.3	3813.9	4094.7	4254.6	4818.1	4958.5	4535.4
37.5°	4391.1	4365.8	4508.1	4576.3	4426.2	4272.1	4488.6	4673.8	5081.4	5233.4	4775.2
40°	4816.2	4880.5	5071.6	5184.7	5024.8	4820.1	4970.2	5026.8	5256.8	5412.8	4939.0
42.5°	5354.3	5448.0	5642.9	5740.4	5726.8	5504.5	5459.6	5457.7	5383.6	5362.1	5059.9
45°	5871.0	5835.9	6136.2	6348.8	6520.4	6456.0	5931.5	5873.0	5584.4	5438.2	5091.1
47.5°	6097.2	6085.6	6290.2	6668.6	7253.5	7333.4	6617.8	6391.6	5923.7	5757.9	5260.7
50°	5804.8	5865.2	6068.0	6487.2	7384.2	7994.4	7460.2	7156.0	6319.5	6148.0	5662.4
52.5°	4849.4	4890.2	5083.3	5615.6	6939.6	8384.4	8267.5	8091.9	7046.8	6762.1	6362.4
54°	3987.5	4096.7	4202.0	4736.2	6148.0	8168.0	8710.0	8575.5	7520.6	7273.0	6803.1
55°	3472.7	3537.0	3613.1	4145.4	5600.0	7801.4	8659.4	8671.0	7838.5	7432.9	7099.5
57.5°	2536.8	2581.6	2503.6	2739.6	3845.2	6335.1	7920.4	8236.2	8267.5	7672.7	7280.8
60°	1938.2	1957.7	1869.9	1907.0	2390.5	4348.2	6126.5	6506.7	7458.2	6705.6	6167.5
62.5°	1503.4	1507.3	1505.3	1569.7	1647.7	2558.2	3831.5	4168.8	5141.8	4761.6	4188.3
65°	1107.6	1089.9	1121.2	1316.1	1405.9	1608.7	2018.1	2263.8	2794.1	2359.3	1686.7
67.5°	717.5	723.4	754.6	978.8	1205.0	1234.2	1242.1	1222.6	1224.5	674.6	423.1
70°	430.9	440.7	430.9	553.7	861.8	885.3	809.2	789.7	616.1	159.9	157.9
72.5°	255.4	241.8	216.4	237.9	358.8	429.0	386.1	384.1	241.8	93.6	93.6
75°	107.3	97.5	79.9	72.1	95.5	91.6	91.6	81.9	64.4	62.4	58.5
77.5°	21.5	21.5	15.6	17.5	23.4	27.3	33.1	33.1	39.0	39.0	37.0
80°	0.0	2.0	5.9	11.7	17.5	25.4	29.3	29.3	33.1	33.1	27.3
82.5°	0.0	2.0	5.9	11.7	15.6	23.4	29.3	29.3	33.1	35.1	29.3
85°	0.0	2.0	5.9	9.8	15.6	19.5	19.5	17.5	13.6	11.7	7.8
87.5°	0.0	0.0	2.0	3.9	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3	3759.3
2.5°	3776.9	3774.9	3728.2	3652.1	3634.5	3570.2	3562.4	3523.4	3544.9	3472.7	3464.9
5°	3745.7	3722.3	3665.8	3617.0	3474.6	3373.2	3293.3	3195.8	3139.3	3149.1	3112.0
7.5°	3790.5	3730.1	3630.6	3461.0	3287.5	3110.0	3014.5	2815.6	2743.5	2636.2	2620.6
10°	3743.8	3698.9	3544.9	3264.1	3024.3	2768.8	2544.6	2324.3	2156.5	2084.4	2068.8
12.5°	3739.8	3661.9	3404.5	3092.5	2745.4	2378.8	2053.2	1778.3	1612.5	1518.9	1497.5
15°	3679.4	3585.8	3246.6	2827.3	2347.7	1891.3	1536.5	1271.3	1144.6	1089.9	1105.6
17.5°	3685.3	3544.9	3088.6	2546.6	1955.7	1388.3	1049.1	912.5	879.4	893.0	893.0
20°	3679.4	3453.2	2897.5	2222.9	1497.5	963.2	770.2	721.5	742.9	785.8	776.0
22.5°	3648.2	3410.3	2722.0	1881.6	1101.7	713.6	618.1	620.1	653.2	705.9	717.5
25°	3671.6	3314.8	2499.7	1536.5	803.4	569.4	536.2	549.9	585.0	624.0	631.7
27.5°	3654.0	3246.6	2267.7	1193.3	586.9	489.5	487.5	503.1	518.7	547.9	547.9
30°	3673.5	3184.1	2039.6	887.2	483.6	448.5	440.7	452.3	468.0	473.8	471.8
32.5°	3745.7	3137.3	1776.3	663.0	427.0	409.5	409.5	409.5	407.6	415.3	417.3
35°	3903.6	3145.2	1544.3	512.8	389.9	376.3	370.4	362.7	358.8	362.7	364.6
37.5°	4075.2	3141.2	1304.5	436.8	362.7	350.9	337.3	325.6	323.7	327.6	321.7
40°	4151.2	3178.3	1082.2	391.9	337.3	323.7	302.2	292.5	294.4	298.3	294.4
42.5°	4254.6	3189.9	937.9	356.8	313.9	292.5	278.8	267.2	265.2	271.0	269.1
45°	4252.6	3123.7	785.8	337.3	292.5	269.1	251.5	241.8	241.8	245.7	247.7
47.5°	4377.4	3113.9	674.6	319.8	276.9	253.5	232.0	224.3	222.3	222.3	218.4
50°	4668.0	3250.4	588.9	300.3	257.4	235.9	218.4	208.7	200.8	196.9	195.0
52.5°	5235.4	3675.5	522.6	276.9	235.9	218.4	202.8	195.0	185.3	175.5	173.5
54°	5785.3	4114.2	518.7	257.4	218.4	206.7	193.0	189.2	177.4	163.8	159.9
55°	6032.9	4369.6	532.3	241.8	206.7	198.9	187.2	183.3	171.6	156.0	154.0
57.5°	6237.6	4469.1	524.5	200.8	187.2	185.3	175.5	169.7	156.0	134.5	130.6
60°	5020.9	3379.1	376.3	177.4	171.6	167.7	159.9	156.0	138.4	115.0	113.1
62.5°	3172.4	1944.0	239.8	156.0	150.1	144.3	134.5	130.6	115.0	91.6	85.8
65°	1351.2	805.3	161.8	138.4	128.7	118.9	111.1	105.3	91.6	68.3	66.3
67.5°	350.9	286.7	134.5	120.9	107.3	93.6	87.8	78.0	62.4	46.8	44.9
70°	157.9	144.3	113.1	101.4	85.8	72.1	64.4	54.6	41.0	31.2	29.3
72.5°	93.6	91.6	85.8	76.0	64.4	54.6	46.8	37.0	27.3	17.5	17.5
75°	58.5	56.5	58.5	52.6	44.9	41.0	35.1	25.4	15.6	7.8	7.8
77.5°	35.1	35.1	35.1	33.1	31.2	31.2	25.4	15.6	7.8	2.0	2.0
80°	27.3	27.3	29.3	27.3	27.3	27.3	21.5	11.7	3.9	0.0	0.0
82.5°	27.3	29.3	33.1	31.2	27.3	23.4	19.5	11.7	3.9	0.0	0.0
85°	7.8	5.9	9.8	13.6	19.5	17.5	13.6	9.8	3.9	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	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)