

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: P647984

Luminaire Tested: **GALN-SA6A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647984  
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-SA6A-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 12394.1 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

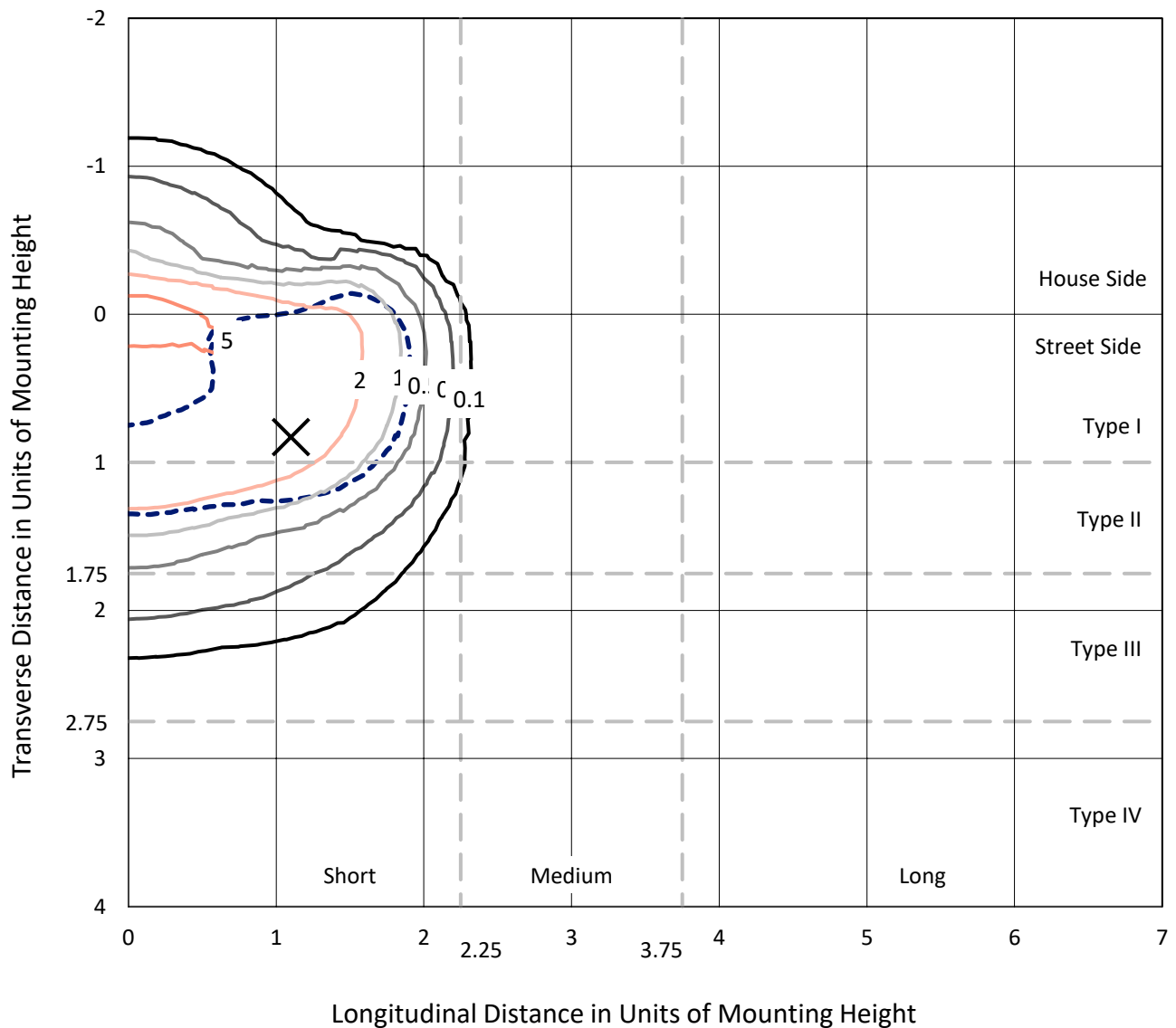
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

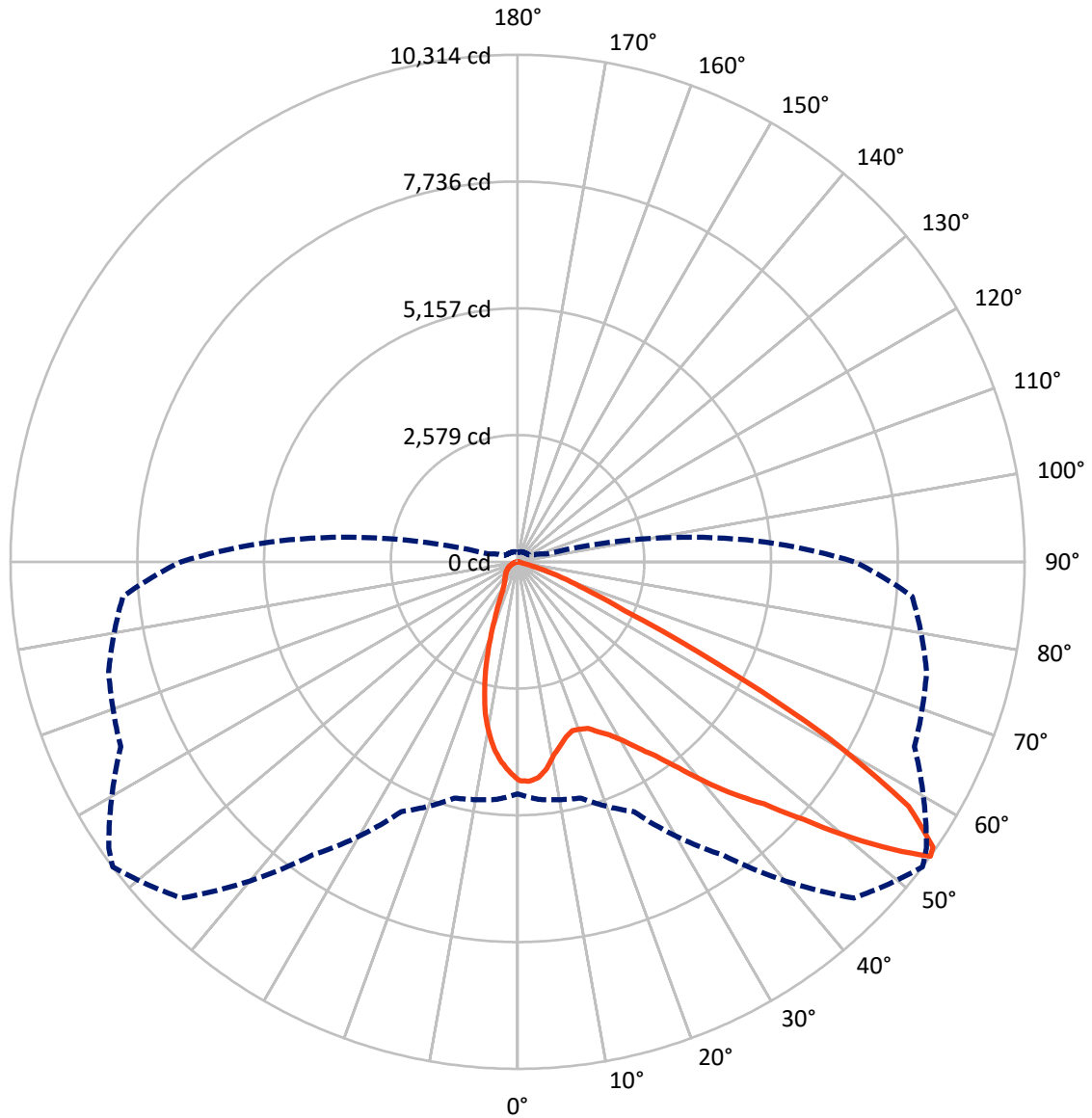
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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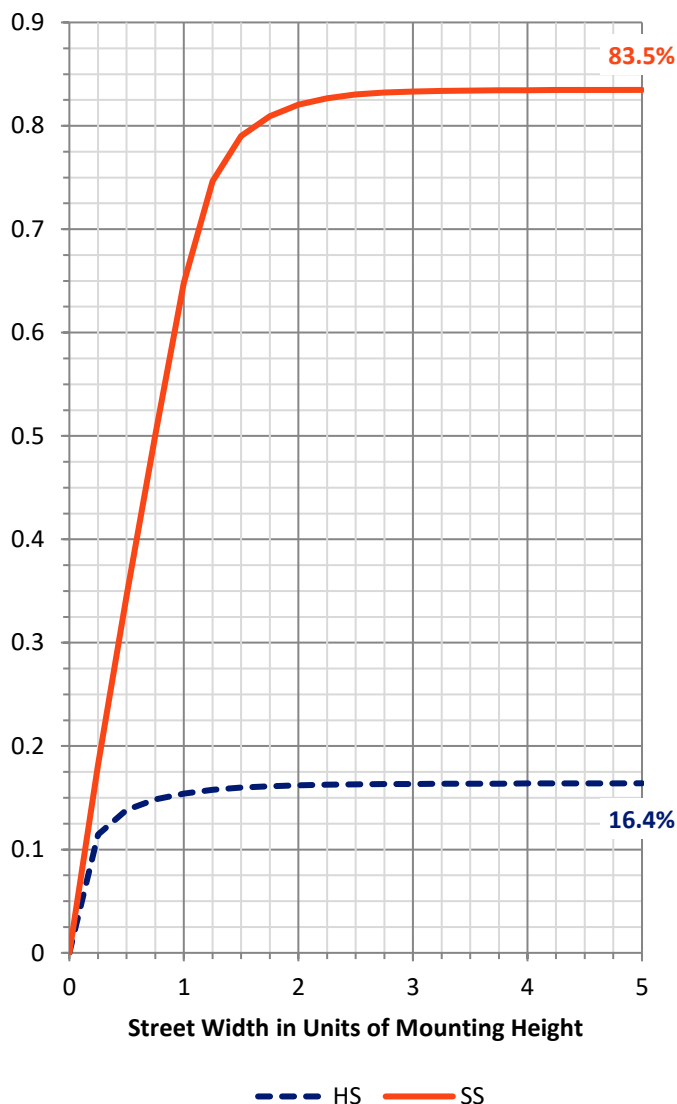
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2050.6	0.0	2050.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10343.5	0.0	10343.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12394.1	0.0	12394.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.0	3.1
10°-20°	875.7	7.1
20°-30°	1244.5	10.0
30°-40°	1920.7	15.5
40°-50°	3011.4	24.3
50°-60°	3498.2	28.2
60°-70°	1321.8	10.7
70°-80°	125.7	1.0
80°-90°	14.1	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°	12394.1	100.0
0°-180°	12394.1	100.0

**Coefficient of Utilization**

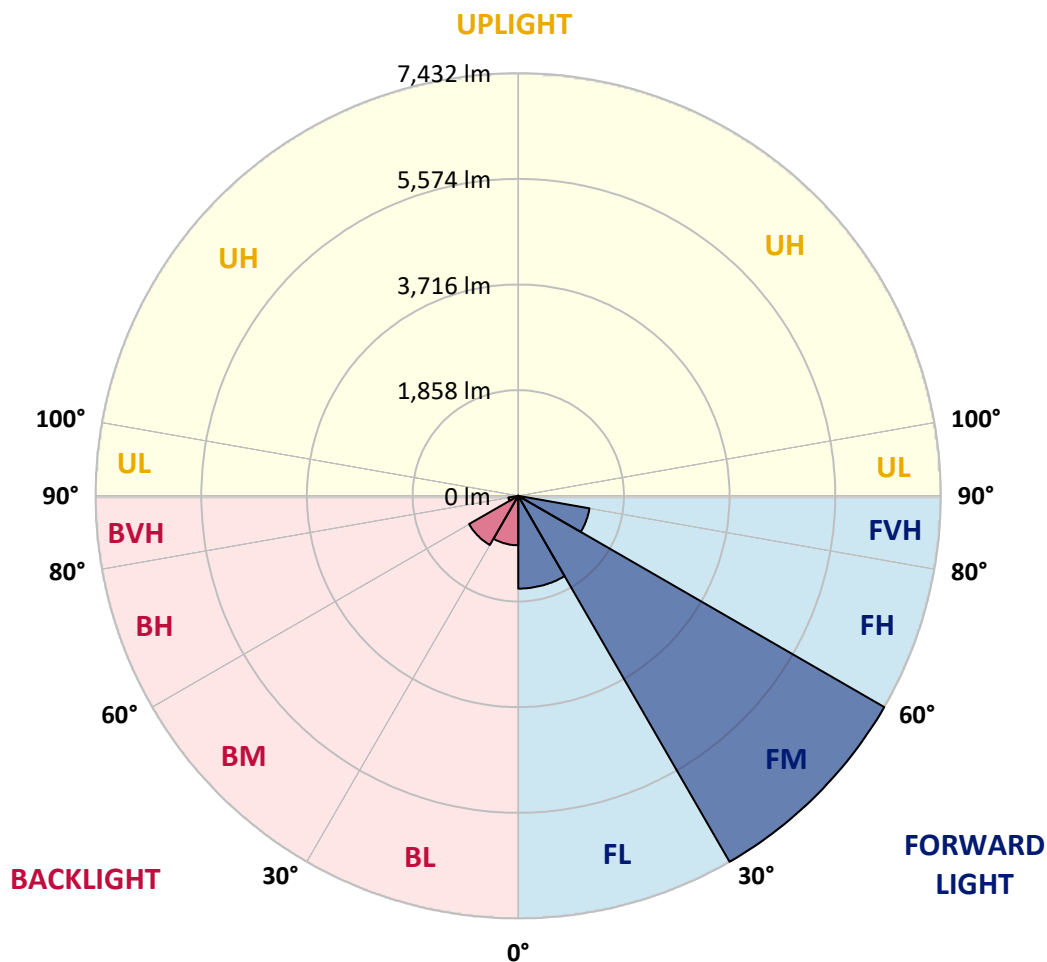


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.0	13.2			
FM (30°-60°)	7432.4	60.0			
FH (60°-80°)	1271.8	10.3			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	870.2	7.0	B2/1000		
BM (30°-60°)	997.9	8.1	B1/1000		
BH (60°-80°)	175.7	1.4	B1/500		G1/500
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: 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°	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7
2.5°	4428.6	4389.4	4428.6	4433.3	4461.0	4486.4	4470.2	4507.2	4486.4	4463.3	4456.4
5°	4070.7	4123.9	4126.2	4209.3	4190.9	4343.2	4410.2	4391.7	4504.8	4497.9	4481.7
7.5°	3749.8	3729.0	3756.8	3853.7	3976.1	4151.6	4248.6	4246.3	4407.9	4523.3	4511.8
10°	3451.9	3449.7	3507.4	3583.6	3687.5	3872.2	4006.1	4073.1	4324.7	4500.2	4525.7
12.5°	3251.1	3241.9	3304.2	3366.5	3530.5	3673.6	3844.5	3876.8	4165.4	4419.4	4461.0
15°	3119.5	3140.2	3144.8	3265.0	3368.9	3558.2	3692.1	3759.0	4091.6	4354.8	4514.1
17.5°	3096.4	3124.1	3126.4	3225.6	3336.5	3495.9	3613.6	3703.7	4029.2	4387.1	4516.4
20°	3142.6	3126.4	3140.2	3202.5	3311.1	3463.5	3634.4	3664.4	4008.4	4403.3	4541.8
22.5°	3274.2	3269.6	3234.9	3285.7	3361.9	3521.2	3682.8	3729.0	4068.5	4486.4	4562.6
25°	3419.6	3445.0	3412.7	3405.8	3458.9	3615.9	3830.7	3890.6	4269.3	4636.5	4627.2
27.5°	3692.1	3666.7	3666.7	3634.4	3620.5	3696.7	3989.9	4089.2	4493.3	4830.4	4701.1
30°	3953.0	3980.7	3959.9	3971.5	3879.1	3872.2	4216.2	4338.6	4890.5	5126.0	4858.1
32.5°	4366.3	4329.4	4364.1	4334.0	4211.6	4086.9	4523.3	4650.3	5370.8	5465.4	5093.6
35°	4710.4	4694.2	4842.0	4837.4	4638.8	4516.4	4848.9	5038.2	5705.6	5871.8	5370.8
37.5°	5199.9	5169.8	5338.4	5419.2	5241.4	5059.0	5315.3	5534.7	6017.3	6197.4	5654.7
40°	5703.2	5779.4	6005.7	6139.7	5950.3	5707.8	5885.7	5952.6	6225.1	6409.8	5848.7
42.5°	6340.5	6451.4	6682.3	6797.7	6781.6	6518.3	6465.2	6462.9	6375.2	6349.7	5991.8
45°	6952.4	6910.8	7266.4	7518.1	7721.3	7645.1	7024.0	6954.7	6613.0	6439.8	6028.8
47.5°	7220.3	7206.4	7448.8	7896.8	8589.5	8684.2	7836.7	7568.9	7014.7	6818.4	6229.7
50°	6873.9	6945.4	7185.6	7682.0	8744.2	9466.9	8834.3	8474.0	7483.4	7280.3	6705.4
52.5°	5742.5	5791.0	6019.5	6649.9	8217.7	9928.7	9790.2	9582.4	8344.7	8007.6	7534.3
54°	4721.9	4851.2	4975.9	5608.6	7280.3	9672.4	10314.3	10155.0	8905.8	8612.6	8056.1
55°	4112.3	4188.5	4278.5	4908.9	6631.5	9238.3	10254.2	10268.1	9282.2	8801.9	8407.1
57.5°	3004.0	3057.1	2964.8	3244.1	4553.4	7501.9	9379.2	9753.2	9790.2	9085.9	8621.8
60°	2295.1	2318.2	2214.3	2258.2	2830.9	5149.1	7254.9	7705.1	8831.9	7940.6	7303.4
62.5°	1780.2	1784.8	1782.6	1858.8	1951.1	3029.4	4537.2	4936.7	6088.8	5638.6	4959.8
65°	1311.5	1290.7	1327.7	1558.6	1664.8	1905.0	2389.8	2680.8	3308.8	2793.9	1997.3
67.5°	849.7	856.6	893.6	1159.2	1426.9	1461.6	1470.9	1447.8	1450.0	798.9	501.0
70°	510.3	521.9	510.3	655.8	1020.6	1048.3	958.2	935.1	729.7	189.3	187.1
72.5°	302.5	286.3	256.3	281.7	424.9	508.0	457.2	454.8	286.3	110.8	110.8
75°	127.0	115.4	94.7	85.4	113.1	108.5	108.5	97.0	76.2	73.9	69.3
77.5°	25.4	25.4	18.5	20.7	27.7	32.3	39.2	39.2	46.2	46.2	43.8
80°	0.0	2.3	6.9	13.9	20.7	30.0	34.6	34.6	39.2	39.2	32.3
82.5°	0.0	2.3	6.9	13.9	18.5	27.7	34.6	34.6	39.2	41.6	34.6
85°	0.0	2.3	6.9	11.5	18.5	23.1	23.1	20.7	16.1	13.9	9.2
87.5°	0.0	0.0	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7	4451.7
2.5°	4472.6	4470.2	4414.8	4324.7	4304.0	4227.8	4218.6	4172.4	4197.7	4112.3	4103.1
5°	4435.6	4407.9	4341.0	4283.2	4114.7	3994.6	3899.9	3784.5	3717.5	3729.0	3685.2
7.5°	4488.7	4417.1	4299.4	4098.5	3893.0	3682.8	3569.7	3334.2	3248.7	3121.7	3103.3
10°	4433.3	4380.2	4197.7	3865.3	3581.3	3278.8	3013.2	2752.3	2553.8	2468.3	2449.9
12.5°	4428.6	4336.3	4031.5	3662.1	3251.1	2817.0	2431.4	2105.8	1909.6	1798.7	1773.3
15°	4357.1	4246.3	3844.5	3348.0	2780.0	2239.7	1819.5	1505.5	1355.4	1290.7	1309.2
17.5°	4364.1	4197.7	3657.5	3015.6	2316.0	1644.0	1242.2	1080.6	1041.4	1057.5	1057.5
20°	4357.1	4089.2	3431.2	2632.3	1773.3	1140.7	912.0	854.3	879.7	930.5	919.0
22.5°	4320.1	4038.5	3223.4	2228.2	1304.6	845.1	731.9	734.3	773.5	835.9	849.7
25°	4347.8	3925.3	2960.1	1819.5	951.3	674.2	635.0	651.1	692.7	738.9	748.1
27.5°	4327.1	3844.5	2685.4	1413.1	695.0	579.6	577.2	595.7	614.2	648.8	648.8
30°	4350.2	3770.6	2415.2	1050.6	572.6	531.1	521.9	535.7	554.1	561.1	558.7
32.5°	4435.6	3715.2	2103.5	785.0	505.7	484.9	484.9	484.9	482.6	491.8	494.2
35°	4622.6	3724.4	1828.7	607.3	461.8	445.6	438.7	429.5	424.9	429.5	431.7
37.5°	4825.8	3719.8	1544.7	517.2	429.5	415.6	399.5	385.6	383.3	387.9	381.0
40°	4915.8	3763.6	1281.5	464.1	399.5	383.3	357.9	346.3	348.7	353.3	348.7
42.5°	5038.2	3777.5	1110.6	422.6	371.8	346.3	330.2	316.3	314.1	321.0	318.7
45°	5035.9	3699.0	930.5	399.5	346.3	318.7	297.9	286.3	286.3	291.0	293.2
47.5°	5183.7	3687.5	798.9	378.7	327.8	300.2	274.8	265.5	263.2	263.2	258.6
50°	5527.7	3849.1	697.3	355.6	304.8	279.4	258.6	247.0	237.8	233.2	230.9
52.5°	6199.6	4352.5	618.8	327.8	279.4	258.6	240.1	230.9	219.3	207.8	205.5
54°	6850.8	4872.0	614.2	304.8	258.6	244.8	228.6	223.9	210.2	193.9	189.3
55°	7144.0	5174.5	630.4	286.3	244.8	235.5	221.7	217.0	203.2	184.7	182.4
57.5°	7386.5	5292.2	621.2	237.8	221.7	219.3	207.8	200.9	184.7	159.3	154.7
60°	5945.7	4001.5	445.6	210.2	203.2	198.6	189.3	184.7	164.0	136.2	133.9
62.5°	3756.8	2302.1	284.0	184.7	177.8	170.9	159.3	154.7	136.2	108.5	101.6
65°	1600.1	953.6	191.7	164.0	152.4	140.9	131.6	124.7	108.5	80.8	78.5
67.5°	415.6	339.4	159.3	143.1	127.0	110.8	103.9	92.4	73.9	55.4	53.1
70°	187.1	170.9	133.9	120.0	101.6	85.4	76.2	64.7	48.5	37.0	34.6
72.5°	110.8	108.5	101.6	90.0	76.2	64.7	55.4	43.8	32.3	20.7	20.7
75°	69.3	66.9	69.3	62.3	53.1	48.5	41.6	30.0	18.5	9.2	9.2
77.5°	41.6	41.6	41.6	39.2	37.0	37.0	30.0	18.5	9.2	2.3	2.3
80°	32.3	32.3	34.6	32.3	32.3	32.3	25.4	13.9	4.6	0.0	0.0
82.5°	32.3	34.6	39.2	37.0	32.3	27.7	23.1	13.9	4.6	0.0	0.0
85°	9.2	6.9	11.5	16.1	23.1	20.7	16.1	11.5	4.6	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3	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)