

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: P323950

Luminaire Tested: **GLEON-SA6A-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6A-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 16630 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

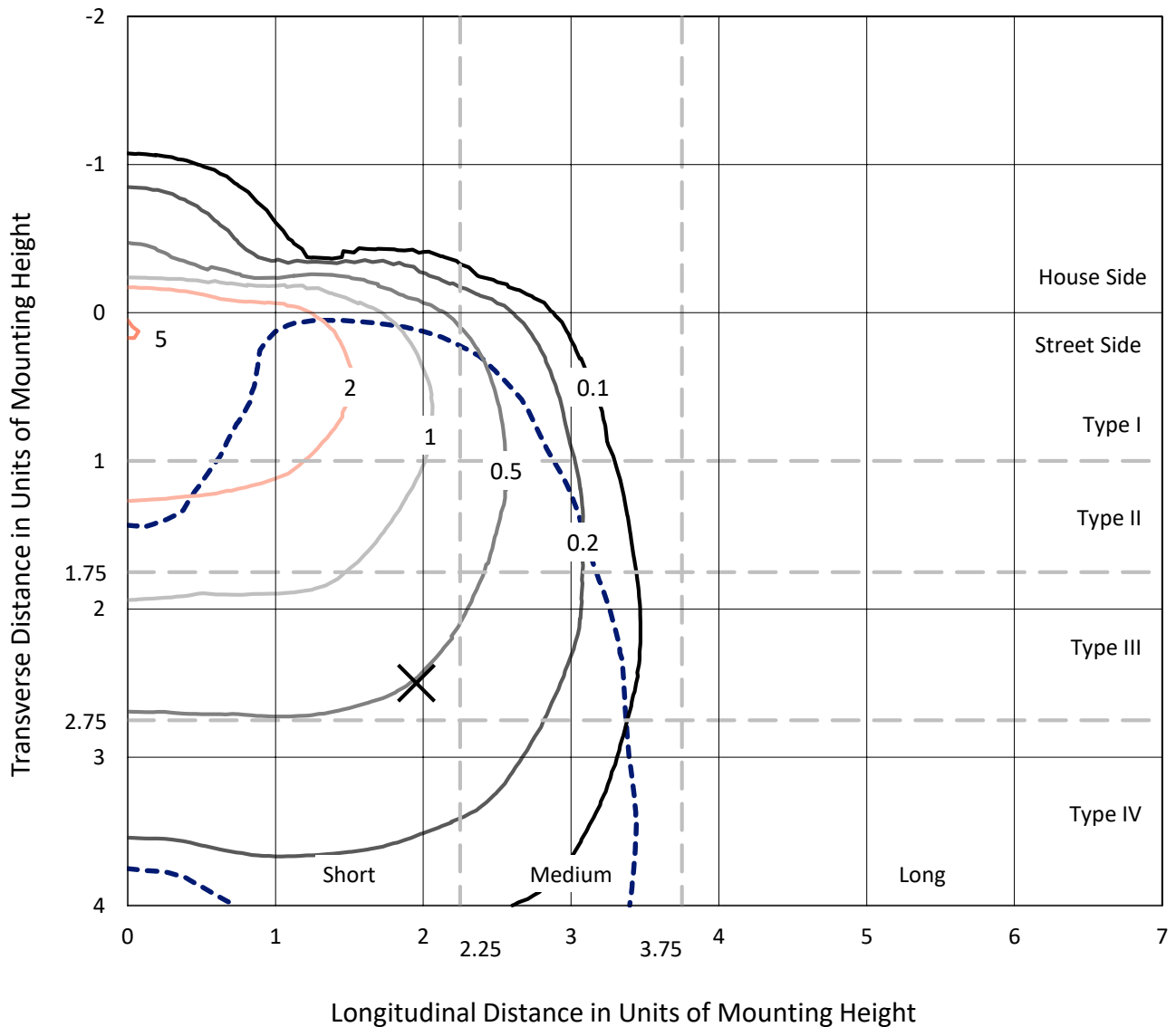
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

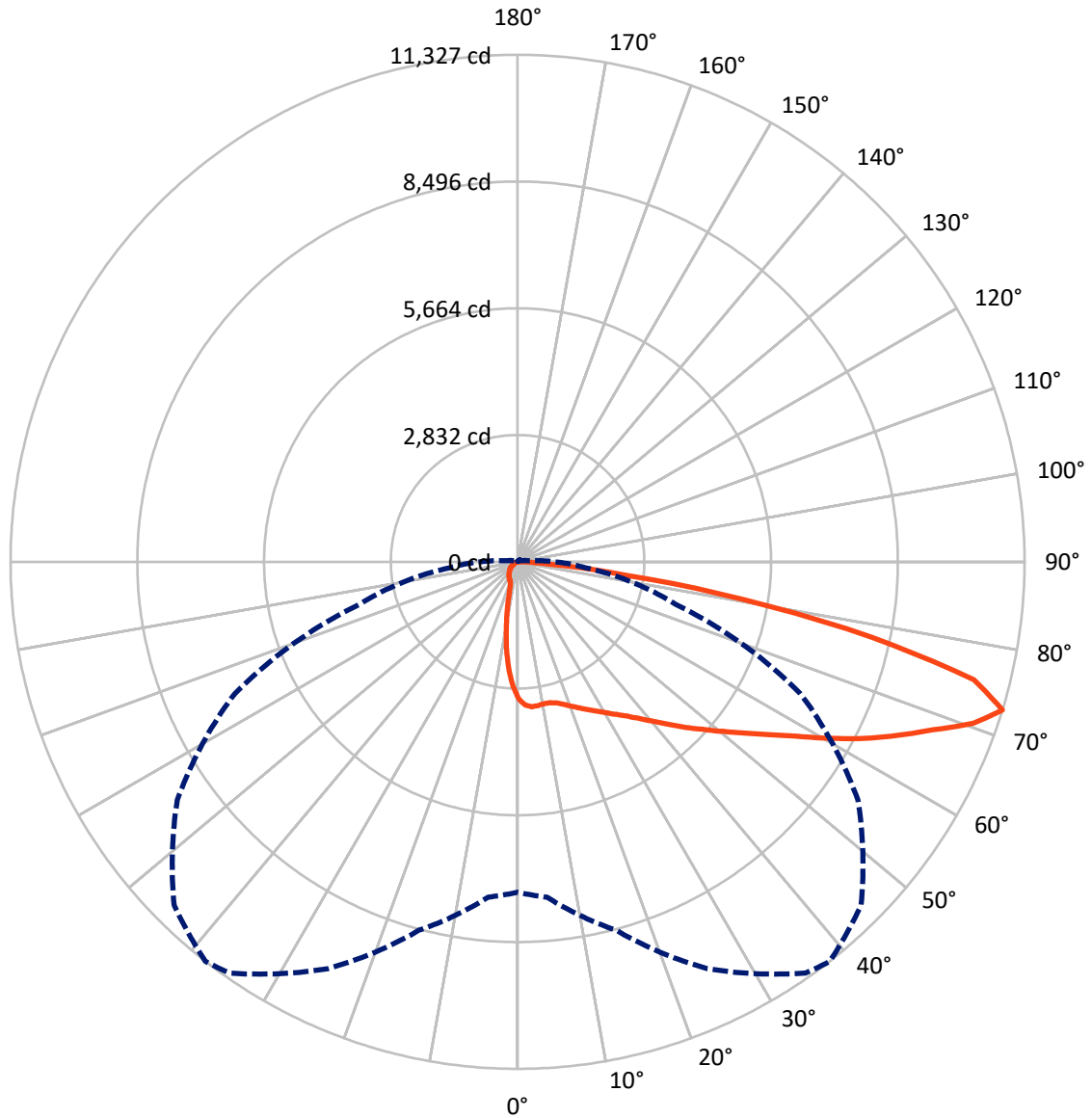
✕ Max cd  
 - - - 1/2 Max cd



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 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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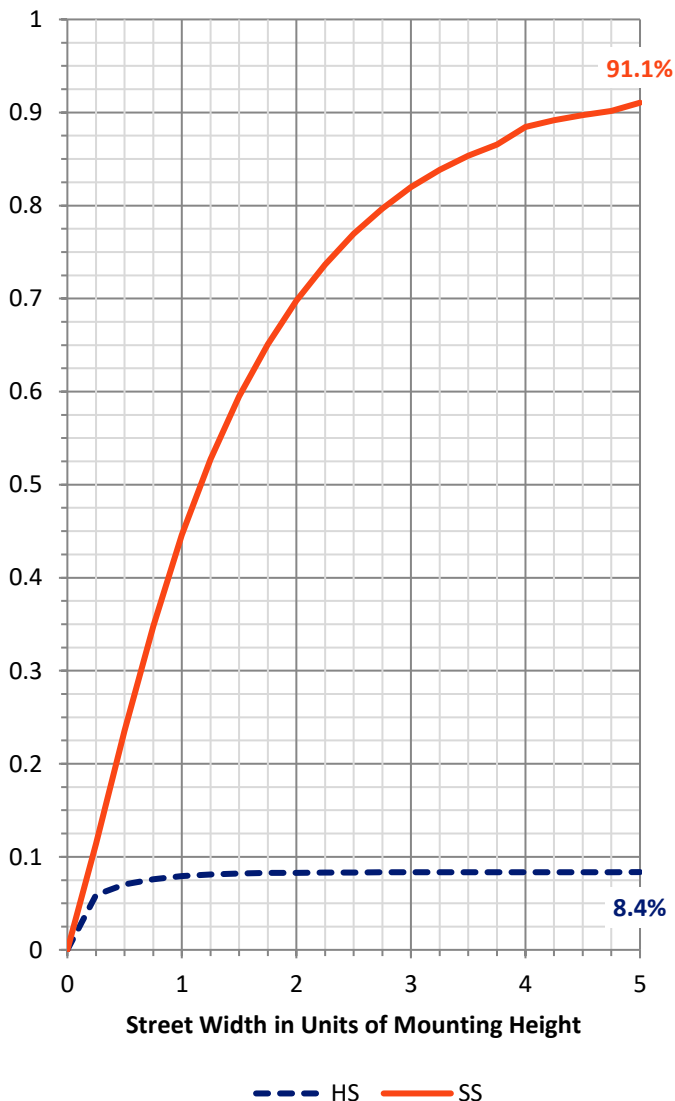
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1399.5	0.0	1399.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	15230.5	0.0	15230.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	16630.0	0.0	16630.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.6	1.6
10°-20°	637.3	3.8
20°-30°	1013.6	6.1
30°-40°	1523.8	9.2
40°-50°	2324.6	14.0
50°-60°	3285.5	19.8
60°-70°	4121.1	24.8
70°-80°	3081.4	18.5
80°-90°	382.1	2.3
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°	16630.0	100.0
0°-180°	16630.0	100.0



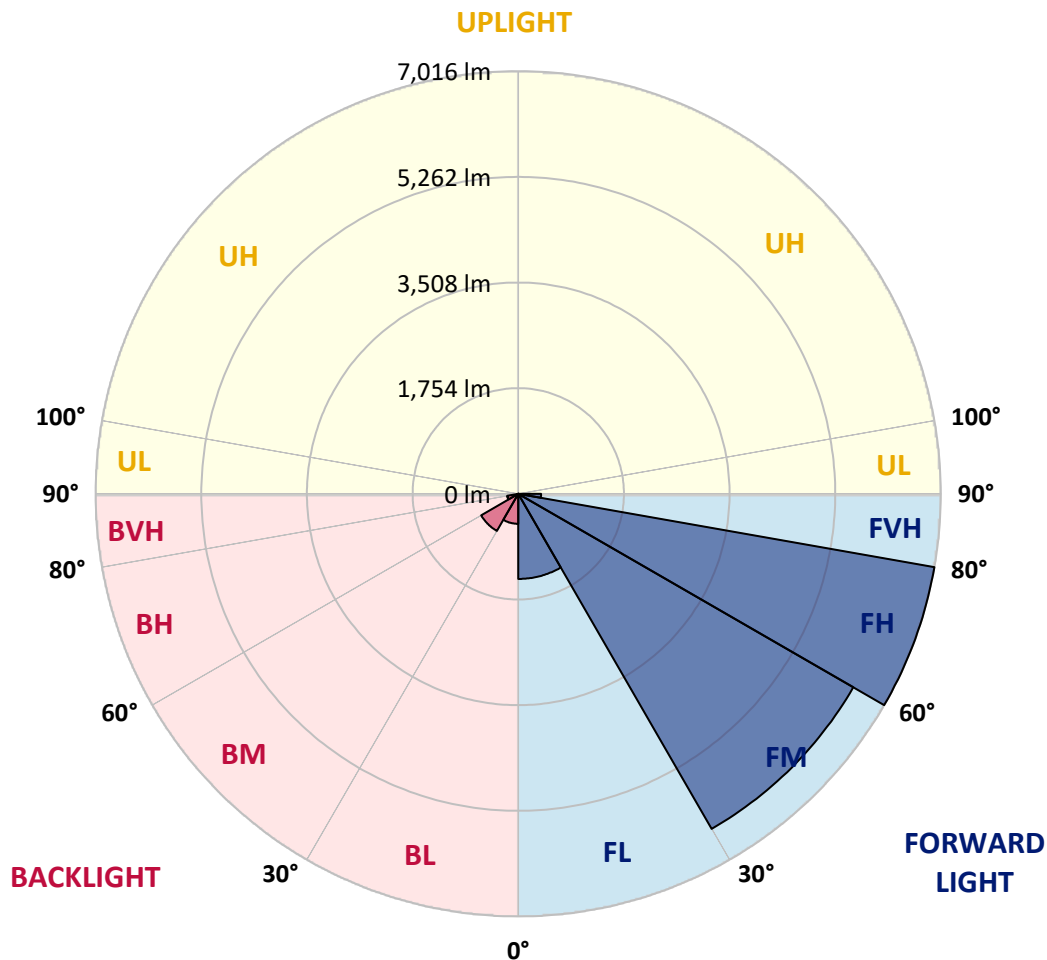
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.1	8.5			
FM (30°-60°)	6423.2	38.6			
FH (60°-80°)	7015.6	42.2			G3/7500
FVH (80°-90°)	378.5	2.3			G3/500
BL (0°-30°)	498.3	3.0	B1/500		
BM (30°-60°)	710.7	4.3	B1/1000		
BH (60°-80°)	186.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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°	38°	45°	55°	65°	75°	85°
0°	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2
2.5°	3246.1	3246.7	3239.2	3226.7	3210.8	3202.5	3188.7	3166.6	3143.2	3101.0	3055.4
5°	3312.4	3312.4	3302.7	3286.1	3260.6	3253.0	3226.7	3191.5	3143.2	3074.8	2998.1
7.5°	3305.5	3306.8	3293.7	3276.4	3250.9	3244.0	3212.2	3172.9	3112.8	3029.9	2931.8
10°	3269.5	3273.0	3262.6	3254.3	3230.9	3223.3	3193.6	3154.2	3094.1	3005.7	2893.1
12.5°	3232.9	3236.4	3239.8	3247.4	3232.9	3230.2	3206.7	3173.5	3116.2	3024.4	2897.3
15°	3209.5	3216.4	3241.2	3270.9	3274.4	3271.6	3256.4	3225.3	3167.3	3072.0	2927.0
17.5°	3209.5	3220.5	3272.3	3328.9	3349.0	3351.0	3337.9	3294.4	3225.3	3123.1	2954.6
20°	3236.4	3251.6	3332.4	3412.5	3445.7	3445.7	3420.1	3359.3	3278.5	3169.4	2973.3
22.5°	3305.5	3325.5	3427.0	3519.6	3554.8	3547.2	3512.7	3424.2	3333.8	3221.9	2996.7
25°	3441.5	3456.7	3562.4	3655.6	3677.0	3659.8	3616.2	3503.0	3404.2	3293.0	3039.6
27.5°	3616.9	3619.0	3728.1	3806.9	3793.7	3782.0	3727.4	3601.7	3505.7	3394.5	3113.5
30°	3809.6	3809.6	3905.6	3965.7	3925.7	3916.0	3861.4	3721.2	3635.6	3532.7	3218.4
32.5°	3996.1	4004.4	4082.4	4120.4	4075.5	4065.9	4012.7	3872.5	3808.2	3743.3	3382.1
35°	4176.4	4182.6	4256.5	4277.2	4234.4	4237.1	4199.2	4080.4	4056.2	4047.9	3628.7
37.5°	4351.1	4352.5	4427.8	4440.9	4419.5	4443.0	4446.4	4341.4	4386.3	4453.3	3976.1
40°	4510.6	4512.0	4586.6	4620.5	4657.1	4687.4	4714.4	4658.4	4806.9	4962.3	4389.8
42.5°	4638.4	4652.9	4747.5	4811.8	4908.5	4966.5	5039.7	5036.9	5307.7	5541.1	4889.8
45°	4751.0	4775.9	4907.8	5020.3	5186.1	5278.6	5393.3	5483.1	5871.2	6185.5	5396.1
47.5°	4899.5	4923.0	5073.5	5257.9	5478.9	5600.5	5790.4	5984.5	6490.7	6818.1	5890.6
50°	5108.7	5098.4	5246.9	5511.4	5795.3	5954.8	6225.5	6516.3	7105.4	7369.2	6181.3
52.5°	5331.8	5327.7	5437.5	5787.0	6168.2	6354.7	6712.4	7066.0	7693.2	7749.1	6314.6
55°	5608.1	5578.4	5670.9	6101.2	6610.9	6811.2	7232.5	7610.3	8161.4	7963.2	6381.6
57.5°	5897.5	5848.4	5936.8	6451.4	7110.3	7347.1	7808.5	8140.7	8472.9	8109.6	6380.9
60°	6196.5	6138.5	6243.5	6889.2	7730.5	8004.6	8432.8	8499.1	8763.7	8183.5	6334.0
62.5°	6446.5	6412.0	6568.1	7357.5	8423.2	8692.5	8904.6	8825.1	9008.9	8240.8	6224.1
65°	6711.1	6713.1	6965.2	7903.8	9159.4	9341.1	9359.0	9247.8	9214.0	8229.1	5852.6
67.5°	7068.8	7102.0	7522.6	8645.6	9875.6	10015.8	10014.4	9705.7	9363.8	7762.2	5028.6
70°	7447.3	7525.3	8164.9	9494.4	10657.4	10799.7	10726.5	9997.2	8816.8	6276.6	3558.9
72.5°	7383.7	7519.1	8521.9	10029.6	11218.9	11327.4	10851.5	9281.0	6968.7	3648.0	1515.3
75°	5696.5	5853.3	7814.0	9499.2	10629.8	10532.4	9323.8	7222.1	3808.2	1018.0	341.2
77.5°	3009.2	3092.7	5161.9	7236.6	8288.5	8084.8	6568.1	4006.5	1161.0	252.1	153.3
80°	1576.1	1595.4	2249.4	4105.9	5115.7	5117.0	3892.5	1759.8	478.6	129.2	102.9
82.5°	844.0	860.6	1188.6	1897.2	2680.4	2429.7	1490.4	968.3	278.3	73.2	98.8
85°	203.1	206.5	674.1	866.8	1053.9	752.8	442.7	812.9	75.3	42.8	80.1
87.5°	78.0	79.4	250.0	375.0	268.7	174.0	207.2	303.2	9.7	16.6	12.4
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°	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2	3058.2
2.5°	3027.8	3009.9	2965.7	2909.7	2860.0	2824.1	2770.2	2735.0	2711.5	2710.8	2701.8
5°	2951.2	2914.5	2819.2	2706.0	2603.1	2510.5	2401.4	2315.1	2250.8	2240.5	2218.4
7.5°	2869.0	2808.9	2662.5	2485.7	2313.0	2137.6	1933.8	1807.4	1699.0	1647.2	1641.7
10°	2818.5	2734.3	2526.4	2270.9	2000.1	1714.9	1448.3	1263.9	1130.6	1092.6	1064.3
12.5°	2808.2	2697.0	2421.4	2069.2	1682.4	1305.3	1010.4	814.3	707.9	674.1	665.1
15°	2818.5	2679.7	2333.0	1869.6	1360.6	926.2	678.2	564.3	524.2	514.5	513.8
17.5°	2824.8	2659.0	2232.9	1647.9	1048.4	661.6	519.4	486.2	480.0	479.3	480.7
20°	2824.1	2627.2	2113.4	1400.6	779.7	520.1	469.6	462.7	461.4	462.0	461.4
22.5°	2819.2	2589.9	1982.2	1145.8	589.1	464.8	448.2	444.1	443.4	443.4	443.4
25°	2828.2	2560.2	1837.8	902.0	485.5	439.3	428.9	425.4	424.8	424.8	423.4
27.5°	2860.7	2543.7	1679.7	694.1	438.6	416.5	408.2	407.5	405.4	404.7	406.1
30°	2913.2	2543.7	1506.3	540.1	410.2	393.0	386.8	385.4	384.7	384.0	384.7
32.5°	3005.7	2563.0	1317.1	448.9	383.3	366.7	362.6	364.7	362.6	362.6	362.6
35°	3172.9	2621.0	1118.9	391.6	355.0	341.2	337.0	339.8	338.4	338.4	337.7
37.5°	3416.7	2728.8	919.3	357.1	330.1	315.6	310.1	314.2	312.9	312.9	312.2
40°	3713.6	2885.5	729.3	330.8	306.0	290.8	285.9	288.0	284.5	284.5	285.9
42.5°	4080.4	3084.4	563.6	305.3	281.8	267.3	264.5	262.4	256.2	252.8	253.5
45°	4487.8	3291.6	439.3	280.4	259.0	247.3	243.1	237.6	227.2	220.3	221.0
47.5°	4851.8	3451.2	357.1	256.2	238.3	229.3	223.1	212.7	197.5	189.2	189.9
50°	5043.1	3475.4	303.9	232.1	218.9	210.0	201.0	185.1	167.1	158.2	157.5
52.5°	5092.2	3362.1	264.5	210.0	199.6	189.2	177.5	156.1	136.1	126.4	125.0
55°	5110.1	3189.4	229.3	189.2	178.9	167.1	151.9	127.8	109.1	99.5	98.8
57.5°	5050.7	2931.8	201.7	170.6	158.2	143.7	125.0	102.2	84.3	76.7	76.7
60°	4918.8	2583.0	180.3	150.6	136.7	120.2	100.8	79.4	62.8	56.6	56.6
62.5°	4655.7	2131.3	160.2	129.8	116.7	99.5	81.5	60.1	44.2	40.7	41.4
65°	4159.1	1616.8	140.2	111.2	99.5	82.2	63.5	42.8	29.7	29.7	31.1
67.5°	3391.8	1123.0	119.5	94.6	85.6	67.0	48.3	29.7	20.7	23.5	26.2
70°	2245.3	629.9	102.2	78.0	73.2	53.2	35.9	20.0	16.6	22.1	26.9
72.5°	847.4	245.2	85.6	62.8	63.5	40.7	25.6	15.2	15.2	24.2	31.8
75°	236.2	120.2	61.5	46.3	49.7	29.7	18.6	13.1	14.5	27.6	37.3
77.5°	138.8	88.4	40.1	26.9	33.8	20.7	12.4	10.4	12.4	23.5	35.9
80°	111.9	47.0	23.5	13.8	18.6	11.7	8.3	6.2	3.5	9.0	18.6
82.5°	111.9	28.3	11.1	9.7	9.7	6.2	4.1	2.8	0.7	0.0	4.8
85°	75.3	11.7	6.9	6.2	4.8	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	12.4	4.8	2.8	1.4	0.7	0.0	0.0	0.0	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)