

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: P269221

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-RW-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21323.7 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

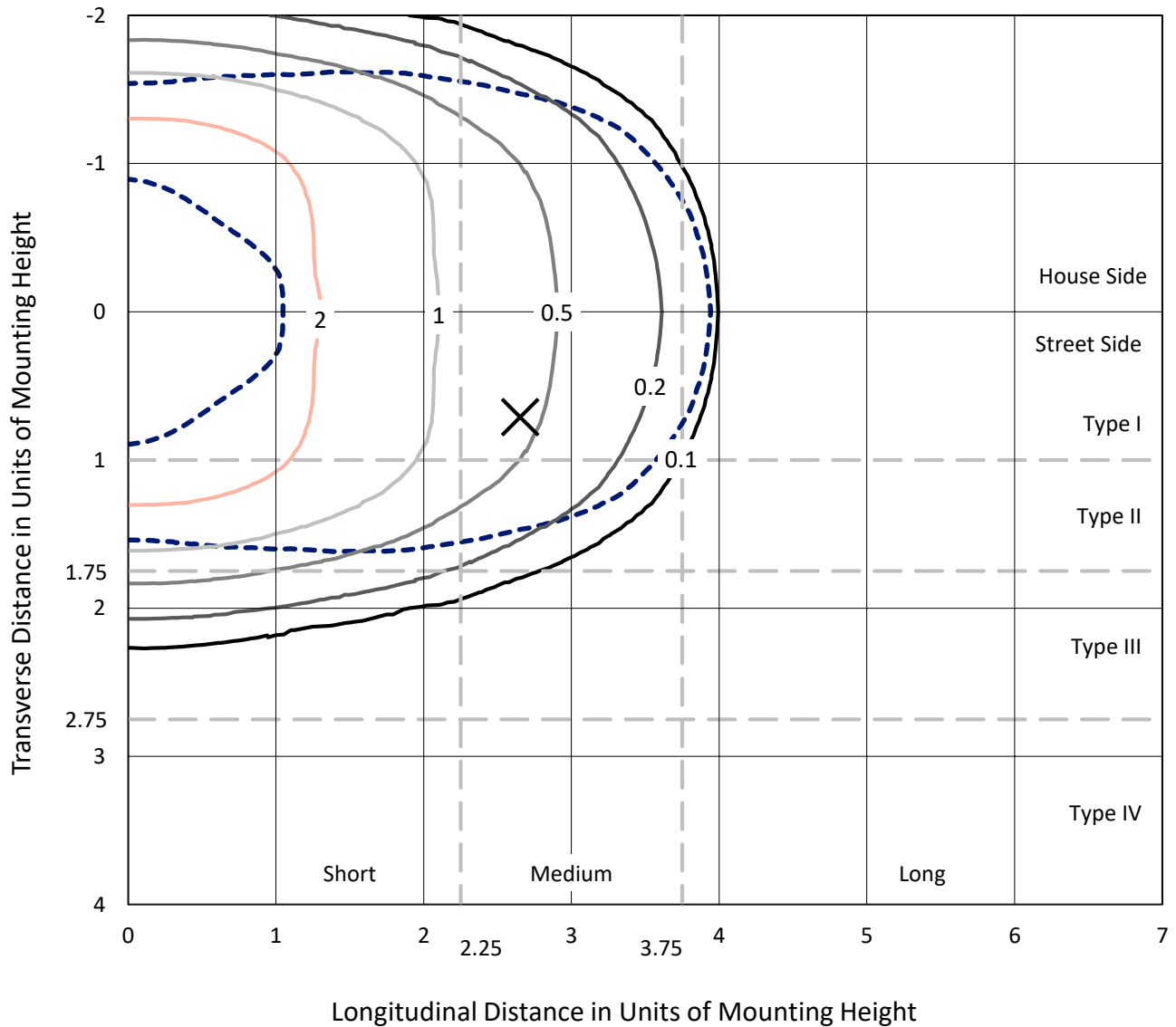
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

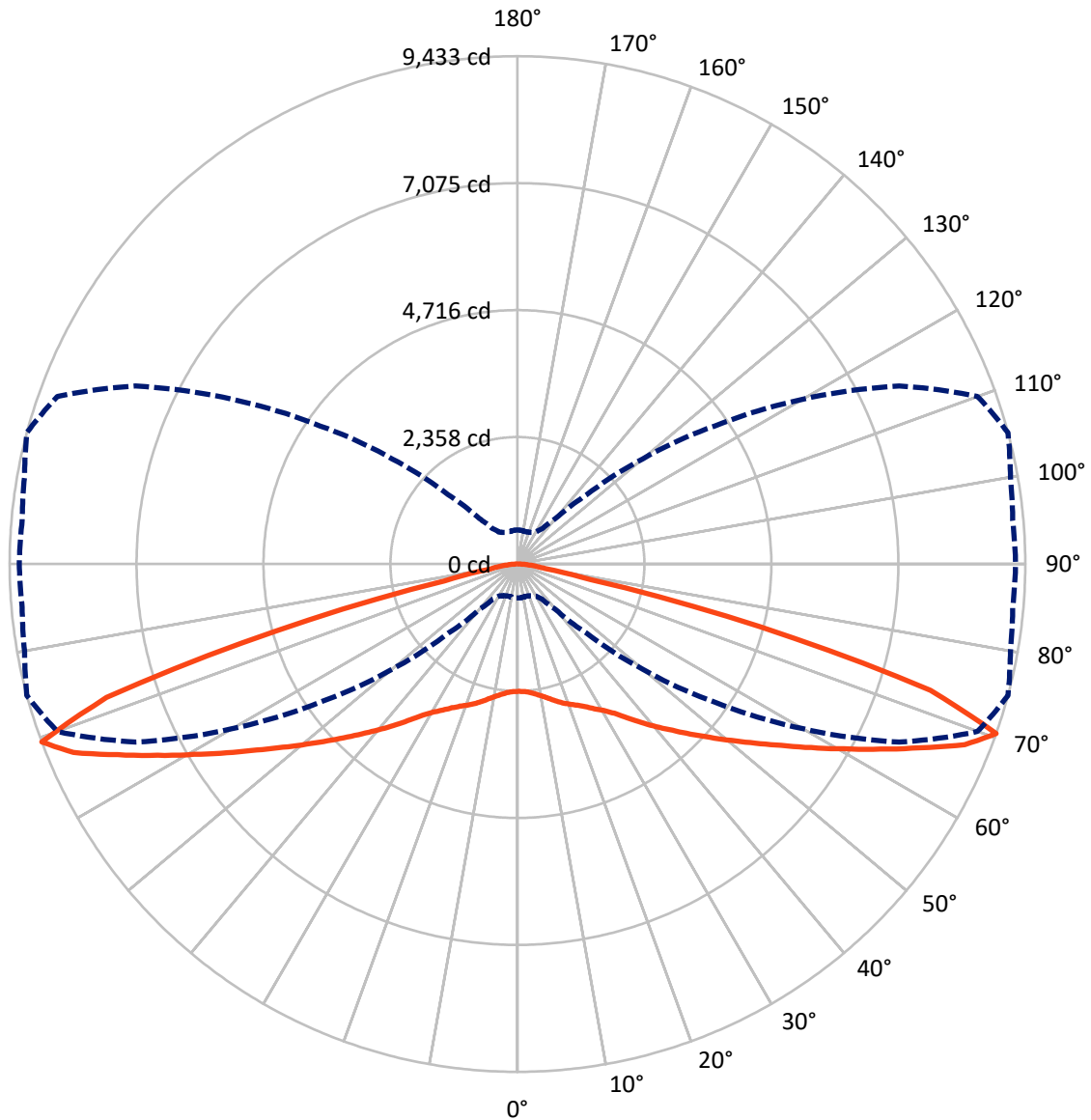
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10661.8	0.0	10661.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10661.8	0.0	10661.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21323.7	0.0	21323.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.8	1.1
10°-20°	704.9	3.3
20°-30°	1326.6	6.2
30°-40°	2349.2	11.0
40°-50°	3928.7	18.4
50°-60°	5474.6	25.7
60°-70°	5076.8	23.8
70°-80°	2023.3	9.5
80°-90°	212.7	1.0
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°	21323.7	100.0
0°-180°	21323.7	100.0



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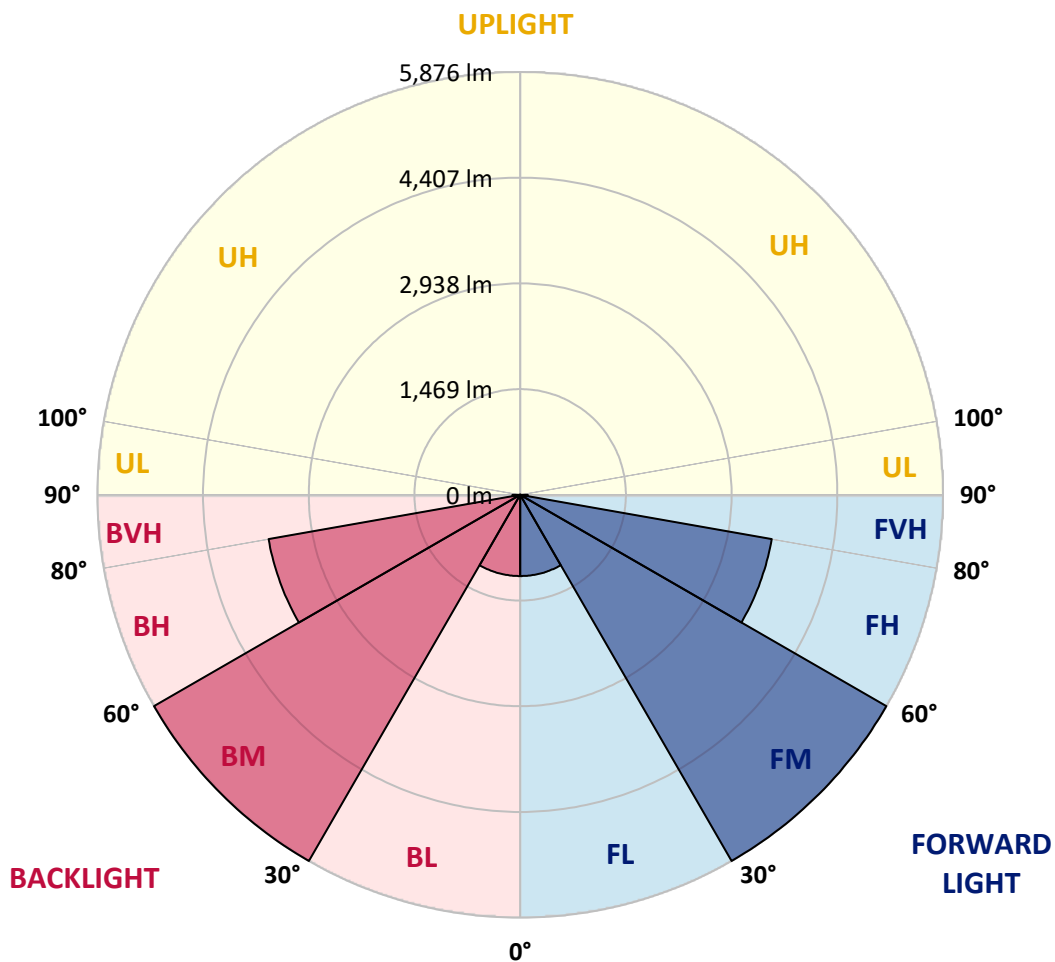
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1129.2	5.3			
FM	(30°-60°)	5876.3	27.6			
FH	(60°-80°)	3550.1	16.6			G2/5000
FVH	(80°-90°)	106.3	0.5			G2/225
BL	(0°-30°)	1129.2	5.3	B3/2500		
BM	(30°-60°)	5876.3	27.6	B4/8500		
BH	(60°-80°)	3550.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	106.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2
2.5°	2361.3	2359.3	2361.3	2360.2	2362.3	2362.3	2364.2	2368.3	2368.3	2371.3	2370.4
5°	2338.1	2337.1	2340.1	2343.0	2346.2	2352.2	2358.2	2367.4	2374.4	2379.4	2384.5
7.5°	2292.7	2292.7	2296.7	2303.9	2310.9	2323.9	2338.1	2356.3	2374.4	2389.5	2402.5
10°	2255.5	2257.5	2262.6	2274.6	2286.6	2306.8	2326.0	2352.2	2377.4	2402.5	2422.6
12.5°	2233.2	2236.3	2245.4	2263.5	2283.6	2310.9	2340.1	2373.3	2401.6	2431.8	2452.0
15°	2240.4	2242.3	2255.5	2277.7	2303.9	2338.1	2377.4	2416.7	2449.9	2482.1	2509.4
17.5°	2279.5	2282.7	2297.8	2322.9	2350.1	2390.5	2432.8	2477.2	2518.5	2554.8	2587.9
20°	2350.1	2353.2	2372.3	2399.6	2431.8	2473.2	2515.4	2561.7	2608.1	2646.4	2683.7
22.5°	2449.9	2455.0	2473.2	2500.3	2536.6	2581.0	2631.3	2680.7	2725.1	2760.3	2793.5
25°	2581.0	2592.1	2609.1	2639.4	2677.7	2718.0	2772.4	2822.8	2865.1	2898.4	2922.5
27.5°	2766.4	2781.5	2794.5	2823.8	2861.1	2899.4	2953.8	2998.3	3038.4	3070.8	3088.9
30°	3012.2	3027.4	3040.6	3068.7	3102.9	3139.2	3190.7	3229.9	3255.2	3280.4	3279.4
32.5°	3310.7	3326.8	3331.8	3361.9	3397.3	3436.6	3483.0	3505.0	3525.3	3528.4	3510.1
35°	3644.2	3652.2	3672.5	3712.8	3752.9	3785.3	3829.7	3840.8	3840.8	3825.6	3785.3
37.5°	4010.0	4015.1	4043.4	4088.6	4130.0	4163.1	4193.5	4215.6	4204.4	4172.3	4104.7
40°	4411.0	4420.2	4460.5	4500.8	4547.2	4578.4	4610.6	4614.8	4603.6	4556.3	4464.5
42.5°	4794.1	4802.1	4842.5	4906.0	4966.4	5009.8	5040.0	5046.0	5010.7	4967.4	4853.5
45°	5123.7	5144.9	5197.2	5271.8	5359.5	5420.9	5462.2	5479.4	5448.1	5391.6	5259.7
47.5°	5384.6	5405.8	5480.4	5569.0	5677.8	5777.7	5846.2	5882.6	5874.5	5832.1	5688.0
50°	5576.0	5596.4	5676.8	5785.8	5912.7	6036.7	6153.6	6240.3	6270.4	6251.3	6119.3
52.5°	5598.2	5631.6	5726.2	5872.4	6037.7	6207.0	6373.2	6520.4	6620.1	6635.3	6537.5
55°	5289.0	5322.2	5453.3	5669.8	5915.8	6191.8	6457.9	6705.8	6902.3	7003.1	6951.8
57.5°	4559.3	4618.7	4756.7	5010.7	5372.6	5785.8	6210.1	6650.4	7050.5	7317.7	7368.9
60°	3494.0	3564.6	3703.6	3973.7	4376.8	4869.6	5436.1	6087.1	6793.5	7394.2	7752.9
62.5°	2241.4	2307.8	2454.0	2688.7	3017.3	3551.4	4159.2	4932.1	5881.6	6829.9	7684.5
65°	1151.8	1188.2	1264.8	1406.8	1662.9	2062.0	2607.2	3378.2	4463.5	5633.6	6869.1
67.5°	729.7	736.7	753.9	774.0	839.5	977.5	1231.5	1712.2	2605.2	3825.6	5271.8
70°	630.9	630.9	622.9	619.8	627.8	647.0	686.3	798.1	1099.4	1816.1	3040.6
72.5°	577.5	571.4	557.3	546.2	544.3	544.3	552.3	569.3	617.8	739.8	1190.3
75°	532.2	515.0	495.9	482.7	477.7	472.7	471.6	474.7	484.7	503.9	568.4
77.5°	476.7	454.5	432.4	419.2	413.2	406.2	400.0	393.1	388.0	394.0	422.3
80°	410.2	385.0	367.9	359.9	353.8	343.6	330.5	318.4	307.4	305.3	322.5
82.5°	330.5	301.3	302.3	305.3	294.3	280.2	266.1	253.0	233.7	223.8	233.7
85°	267.1	252.0	244.9	264.0	247.9	226.7	204.5	181.4	151.2	127.0	138.1
87.5°	103.8	103.8	155.1	238.9	214.7	175.3	150.1	128.0	79.6	61.4	62.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2	2365.2
2.5°	2369.3	2371.3	2370.4	2369.3	2369.3	2368.3	2369.3	2369.3
5°	2387.4	2392.5	2392.5	2394.5	2394.5	2395.5	2396.6	2395.5
7.5°	2414.6	2423.7	2429.7	2436.8	2437.8	2438.9	2440.9	2438.9
10°	2442.0	2460.0	2473.2	2486.1	2492.3	2494.4	2496.3	2496.3
12.5°	2476.2	2501.3	2524.5	2547.8	2558.8	2564.8	2564.8	2568.9
15°	2532.6	2557.7	2585.1	2616.3	2635.4	2645.5	2648.6	2648.6
17.5°	2612.2	2634.4	2657.5	2687.8	2712.0	2725.1	2728.2	2727.1
20°	2704.9	2726.0	2739.2	2758.3	2779.4	2794.5	2798.6	2798.6
22.5°	2810.7	2822.8	2824.8	2830.9	2848.0	2868.2	2877.2	2879.2
25°	2927.7	2930.7	2922.5	2922.5	2933.7	2952.8	2961.9	2962.9
27.5°	3078.9	3063.7	3043.5	3036.5	3043.5	3065.7	3076.8	3080.8
30°	3267.2	3230.9	3184.6	3159.3	3155.3	3184.6	3204.9	3207.8
32.5°	3483.0	3430.5	3369.1	3317.7	3304.5	3322.7	3346.8	3345.8
35°	3738.9	3676.5	3601.8	3536.4	3506.2	3524.2	3558.5	3562.6
37.5°	4034.2	3952.5	3866.9	3784.3	3736.9	3741.9	3778.2	3790.3
40°	4363.7	4258.0	4150.1	4039.1	3971.8	3958.7	4002.9	4010.0
42.5°	4716.6	4580.4	4444.4	4307.4	4220.6	4200.5	4251.9	4248.9
45°	5092.4	4919.1	4759.8	4608.7	4505.9	4475.6	4517.9	4517.9
47.5°	5496.5	5282.8	5093.4	4922.1	4810.2	4766.9	4807.2	4810.2
50°	5924.9	5698.0	5475.3	5284.9	5150.8	5095.4	5147.7	5155.9
52.5°	6351.0	6130.5	5905.6	5688.0	5525.7	5458.2	5518.6	5544.9
55°	6783.5	6566.8	6352.2	6139.5	5947.0	5867.4	5931.9	5965.1
57.5°	7240.0	7039.5	6834.8	6620.1	6434.7	6310.9	6379.4	6423.7
60°	7775.1	7603.9	7391.2	7154.3	6966.9	6841.0	6880.2	6919.6
62.5°	8198.4	8264.9	8084.6	7810.5	7569.6	7408.3	7446.6	7487.9
65°	7993.7	8676.1	8836.4	8559.2	8225.6	7974.7	7958.5	7979.7
67.5°	6681.7	8007.0	8973.3	9237.5	8958.3	8609.5	8545.0	8576.3
70°	4469.5	6120.3	7825.6	9095.2	9432.9	9297.8	9234.3	9253.6
72.5°	2146.6	3564.6	5309.1	6997.1	8025.1	8496.7	8647.9	8721.5
75°	785.1	1414.9	2558.8	3855.9	4654.9	5388.7	5867.4	6062.9
77.5°	473.6	571.4	817.3	1230.5	1393.8	1560.0	1495.6	1527.7
80°	350.7	396.1	448.4	503.9	522.0	522.0	502.0	485.8
82.5°	245.9	275.2	300.4	330.5	338.7	323.5	266.1	211.6
85°	158.2	171.3	182.4	201.6	196.5	187.4	126.0	111.8
87.5°	72.6	82.6	86.6	95.7	91.6	87.7	62.5	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)