

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: P191021

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191021  
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-03-LED-E1-RW-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20845.7 lumens  
Efficiency: N/A  
Efficacy: 109.1 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

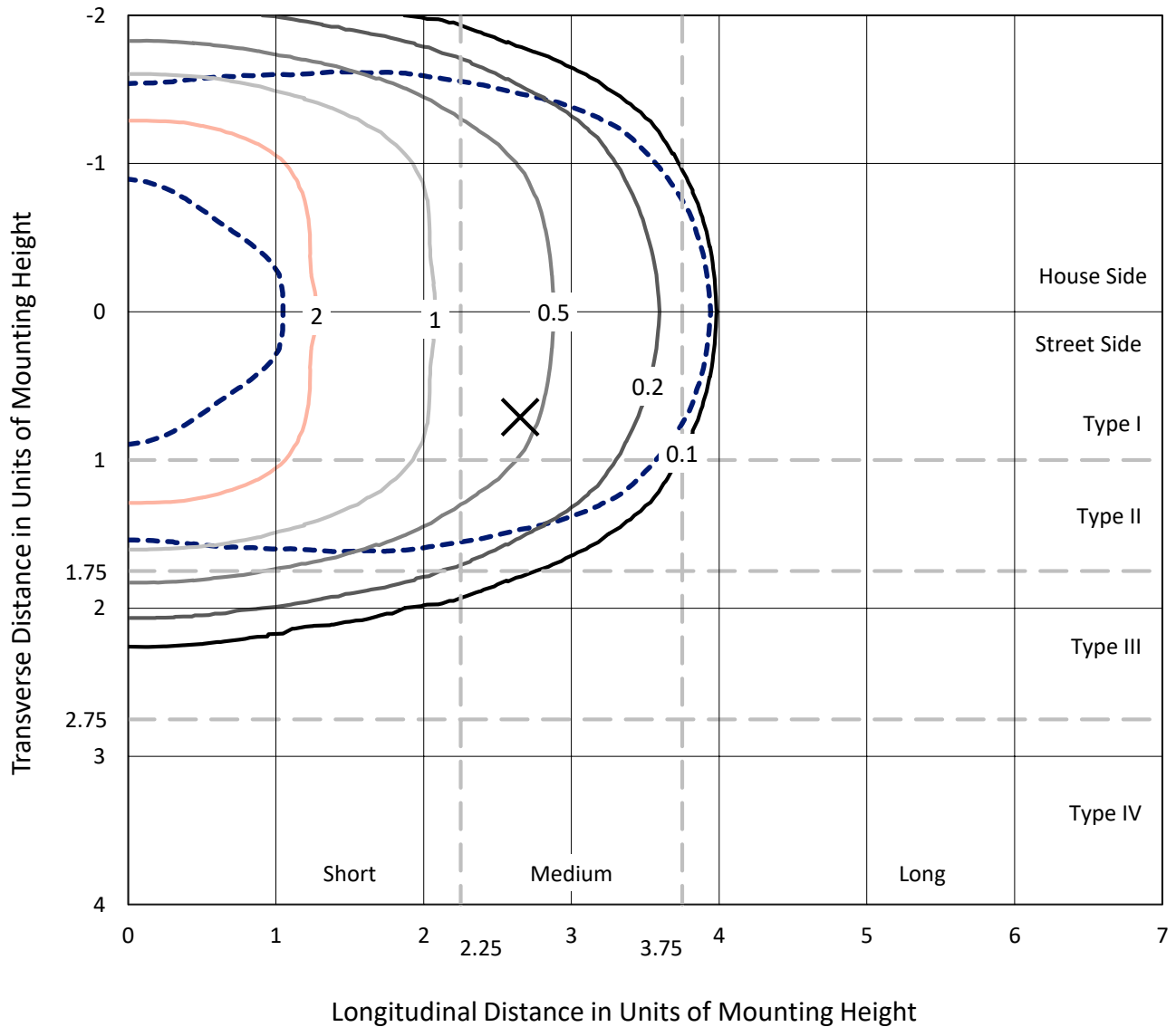
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

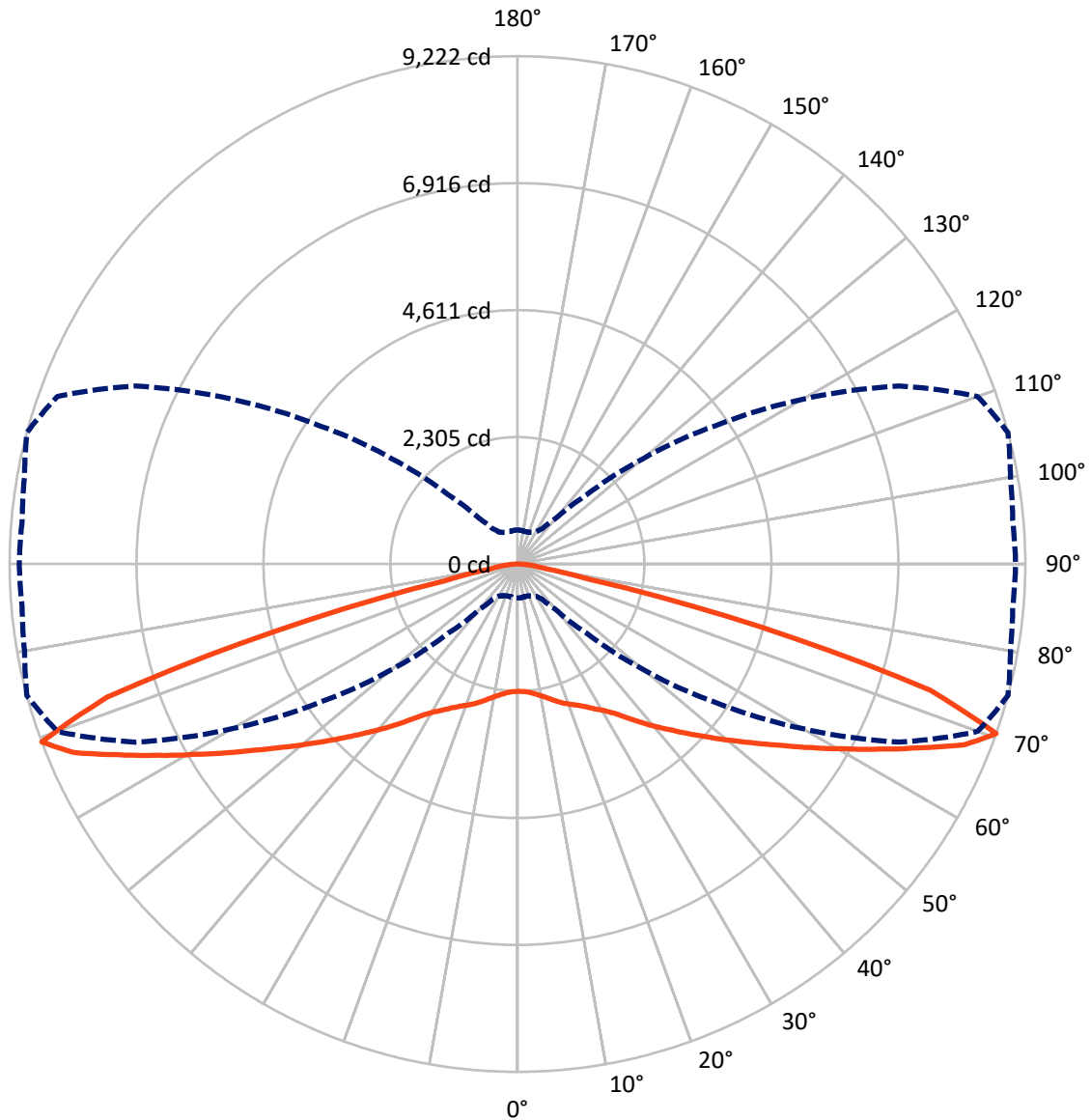
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	10422.8	0.0	10422.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10422.8	0.0	10422.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20845.7	0.0	20845.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.8	1.1
10°-20°	689.1	3.3
20°-30°	1296.9	6.2
30°-40°	2296.6	11.0
40°-50°	3840.6	18.4
50°-60°	5351.9	25.7
60°-70°	4963.0	23.8
70°-80°	1977.9	9.5
80°-90°	207.9	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°	20845.7	100.0
0°-180°	20845.7	100.0



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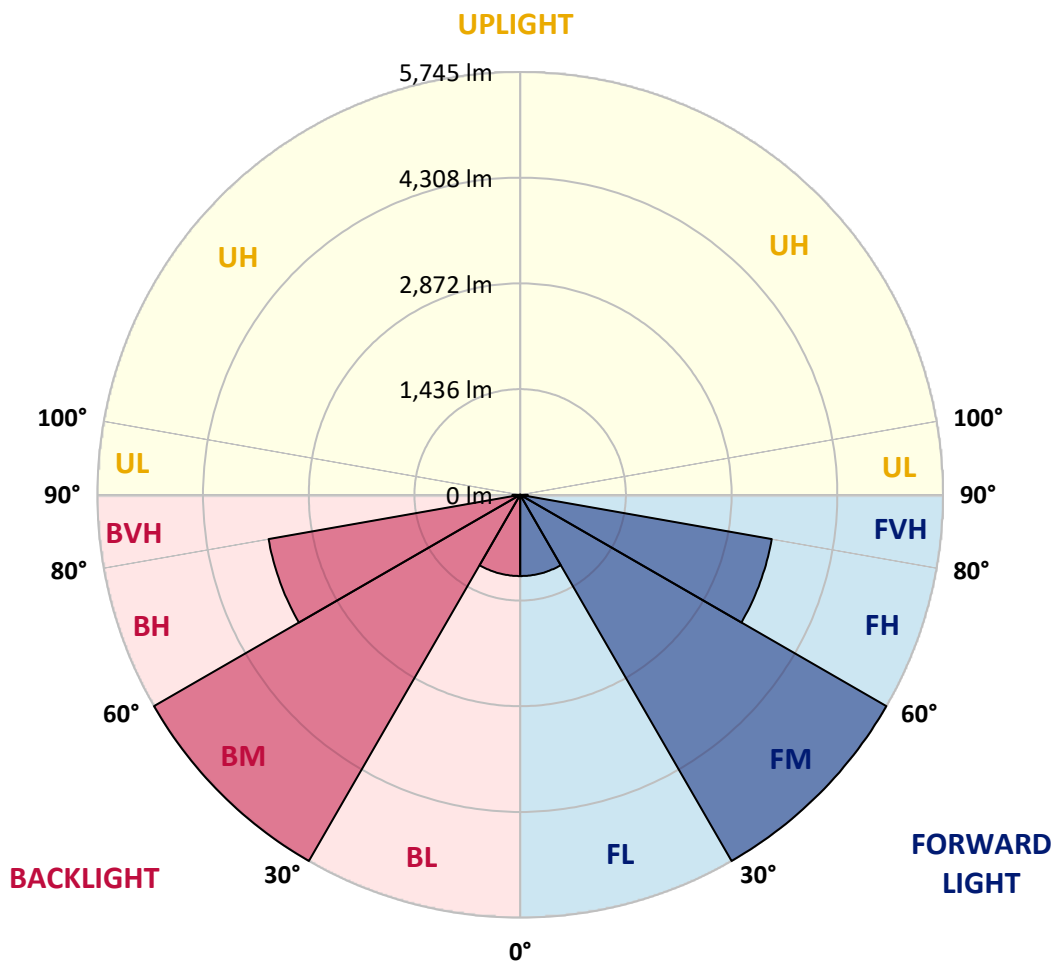
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.9	5.3			
FM	(30°-60°)	5744.6	27.6			
FH	(60°-80°)	3470.5	16.6			G2/5000
FVH	(80°-90°)	104.0	0.5			G2/225
BL	(0°-30°)	1103.9	5.3	B3/2500		
BM	(30°-60°)	5744.6	27.6	B4/8500		
BH	(60°-80°)	3470.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	104.0	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°	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3
2.5°	2308.3	2306.3	2308.3	2307.4	2309.3	2309.3	2311.3	2315.2	2315.2	2318.2	2317.2
5°	2285.7	2284.7	2287.6	2290.6	2293.6	2299.5	2305.4	2314.2	2321.2	2326.1	2331.0
7.5°	2241.4	2241.4	2245.3	2252.1	2259.1	2271.9	2285.7	2303.4	2321.2	2335.9	2348.7
10°	2204.9	2206.8	2211.8	2223.6	2235.5	2255.1	2273.8	2299.5	2324.1	2348.7	2368.4
12.5°	2183.2	2186.1	2195.0	2212.7	2232.5	2259.1	2287.6	2320.2	2347.8	2377.3	2397.0
15°	2190.1	2192.1	2204.9	2226.6	2252.1	2285.7	2324.1	2362.5	2395.0	2426.5	2453.1
17.5°	2228.5	2231.5	2246.3	2270.8	2297.4	2336.9	2378.3	2421.6	2462.0	2497.5	2530.0
20°	2297.4	2300.4	2319.1	2345.7	2377.3	2417.6	2459.1	2504.4	2549.7	2587.1	2623.6
22.5°	2395.0	2399.9	2417.6	2444.3	2479.7	2523.1	2572.4	2620.6	2664.0	2698.4	2731.0
25°	2523.1	2534.0	2550.7	2580.3	2617.7	2657.1	2710.3	2759.5	2800.9	2833.5	2857.1
27.5°	2704.4	2719.2	2732.0	2760.5	2797.0	2834.4	2887.6	2931.0	2970.3	3002.0	3019.6
30°	2944.8	2959.6	2972.4	2999.9	3033.5	3069.0	3119.2	3157.5	3182.2	3206.8	3205.8
32.5°	3236.4	3252.2	3257.1	3286.6	3321.1	3359.6	3404.9	3426.6	3446.2	3449.2	3431.5
35°	3562.5	3570.4	3590.0	3629.5	3668.9	3700.4	3743.8	3754.6	3754.6	3739.8	3700.4
37.5°	3920.2	3925.1	3952.7	3997.0	4037.4	4069.9	4099.5	4121.1	4110.3	4078.7	4012.7
40°	4312.2	4321.1	4360.5	4399.9	4445.2	4475.8	4507.3	4511.2	4500.4	4454.1	4364.4
42.5°	4686.6	4694.5	4733.9	4796.0	4855.1	4897.5	4927.0	4932.9	4898.4	4856.0	4744.8
45°	5008.8	5029.4	5080.7	5153.6	5239.3	5299.4	5339.8	5356.6	5326.0	5270.9	5141.8
47.5°	5263.9	5284.7	5357.5	5444.2	5550.6	5648.2	5715.1	5750.6	5742.7	5701.4	5560.5
50°	5451.1	5470.8	5549.6	5656.1	5780.2	5901.4	6015.7	6100.4	6129.9	6111.2	5982.1
52.5°	5472.8	5505.3	5597.9	5740.8	5902.3	6067.8	6230.4	6374.3	6471.8	6486.5	6391.0
55°	5170.3	5202.8	5330.9	5542.8	5783.2	6053.1	6313.1	6555.6	6747.7	6846.2	6796.0
57.5°	4457.1	4515.2	4650.1	4898.4	5252.1	5656.1	6070.8	6501.4	6892.4	7153.6	7203.8
60°	3415.7	3484.7	3620.6	3884.7	4278.7	4760.5	5314.2	5950.6	6641.3	7228.5	7579.1
62.5°	2191.1	2256.1	2398.9	2628.6	2949.7	3471.9	4065.9	4821.6	5749.7	6676.7	7512.1
65°	1126.1	1161.6	1236.4	1375.4	1625.6	2015.7	2548.7	3302.4	4363.5	5507.3	6715.2
67.5°	713.3	720.2	736.9	756.7	820.7	955.6	1203.9	1673.9	2546.7	3739.8	5153.6
70°	616.7	616.7	608.9	605.9	613.8	632.5	671.0	780.3	1074.8	1775.3	2972.4
72.5°	564.6	558.6	544.8	534.0	532.0	532.0	539.9	556.7	604.0	723.1	1163.5
75°	520.2	503.4	484.7	471.9	467.0	462.1	461.0	464.0	473.9	492.6	555.7
77.5°	466.0	444.4	422.7	409.8	404.0	397.0	391.2	384.2	379.3	385.2	412.8
80°	401.0	376.3	359.6	351.7	345.8	335.9	323.2	311.3	300.4	298.5	315.3
82.5°	323.2	294.6	295.5	298.5	287.7	273.8	260.1	247.2	228.5	218.7	228.5
85°	261.1	246.3	239.4	258.1	242.3	221.7	200.0	177.4	147.8	124.2	134.9
87.5°	101.5	101.5	151.7	233.5	209.8	171.4	146.8	125.1	77.8	60.0	61.1
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°	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3	2312.3
2.5°	2316.2	2318.2	2317.2	2316.2	2316.2	2315.2	2316.2	2316.2
5°	2334.0	2338.9	2338.9	2340.8	2340.8	2341.8	2342.9	2341.8
7.5°	2360.6	2369.5	2375.3	2382.2	2383.2	2384.2	2386.1	2384.2
10°	2387.2	2404.9	2417.6	2430.5	2436.4	2438.4	2440.4	2440.4
12.5°	2420.6	2445.3	2468.0	2490.6	2501.4	2507.4	2507.4	2511.2
15°	2475.8	2500.4	2527.1	2557.6	2576.3	2586.1	2589.1	2589.1
17.5°	2553.7	2575.3	2598.0	2627.6	2651.2	2664.0	2666.9	2665.9
20°	2644.3	2665.0	2677.8	2696.5	2717.2	2732.0	2735.9	2735.9
22.5°	2747.7	2759.5	2761.6	2767.4	2784.2	2803.9	2812.7	2814.8
25°	2862.0	2865.0	2857.1	2857.1	2867.9	2886.7	2895.6	2896.5
27.5°	3009.8	2995.0	2975.4	2968.4	2975.4	2996.9	3007.8	3011.8
30°	3194.1	3158.6	3113.2	3088.6	3084.7	3113.2	3133.0	3135.9
32.5°	3404.9	3353.6	3293.5	3243.3	3230.5	3248.2	3271.9	3270.9
35°	3655.1	3594.0	3521.1	3457.1	3427.5	3445.3	3478.7	3482.7
37.5°	3943.8	3864.0	3780.2	3699.4	3653.2	3658.1	3693.6	3705.3
40°	4265.9	4162.5	4057.0	3948.7	3882.7	3869.9	3913.2	3920.2
42.5°	4610.7	4477.8	4344.8	4210.8	4126.1	4106.3	4156.6	4153.6
45°	4978.2	4808.8	4653.1	4505.4	4404.8	4375.3	4416.7	4416.7
47.5°	5373.3	5164.5	4979.2	4811.8	4702.4	4660.1	4699.4	4702.4
50°	5792.0	5570.4	5352.6	5166.4	5035.4	4981.2	5032.4	5040.3
52.5°	6208.8	5993.0	5773.3	5560.5	5401.9	5335.8	5394.9	5420.6
55°	6631.4	6419.6	6209.7	6001.9	5813.7	5735.9	5798.9	5831.4
57.5°	7077.7	6881.7	6681.6	6471.8	6290.5	6169.3	6236.3	6279.7
60°	7600.8	7433.4	7225.5	6993.9	6810.7	6687.5	6726.0	6764.4
62.5°	8014.6	8079.7	7903.3	7635.3	7399.8	7242.2	7279.6	7320.0
65°	7814.6	8481.6	8638.3	8367.3	8041.2	7795.9	7780.2	7800.8
67.5°	6532.0	7827.4	8772.2	9030.4	8757.5	8416.6	8353.5	8384.1
70°	4369.3	5983.1	7650.1	8891.5	9221.5	9089.5	9027.4	9046.2
72.5°	2098.5	3484.7	5190.0	6840.3	7845.2	8306.3	8454.1	8526.0
75°	767.5	1383.2	2501.4	3769.4	4550.7	5267.9	5735.9	5927.0
77.5°	463.1	558.6	799.0	1202.9	1362.6	1525.1	1462.0	1493.6
80°	342.9	387.2	438.4	492.6	510.4	510.4	490.6	474.9
82.5°	240.4	268.9	293.6	323.2	331.0	316.3	260.1	206.9
85°	154.7	167.5	178.3	197.0	192.1	183.2	123.2	109.4
87.5°	70.9	80.8	84.7	93.6	89.6	85.7	61.1	51.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)