

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: P193362

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22580 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 258  
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

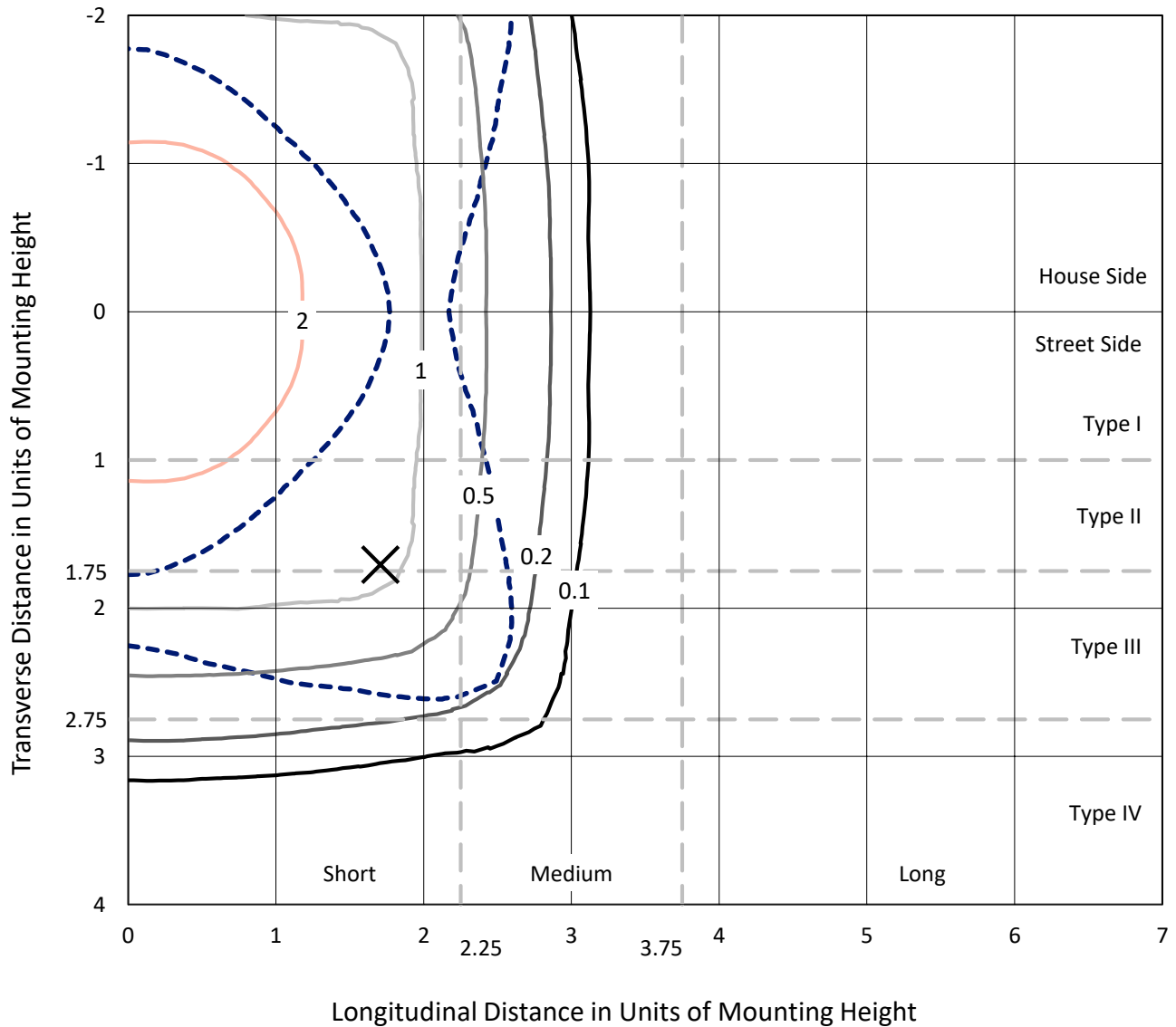


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### Iso-Footcandle Lines of Horizontal Illumination

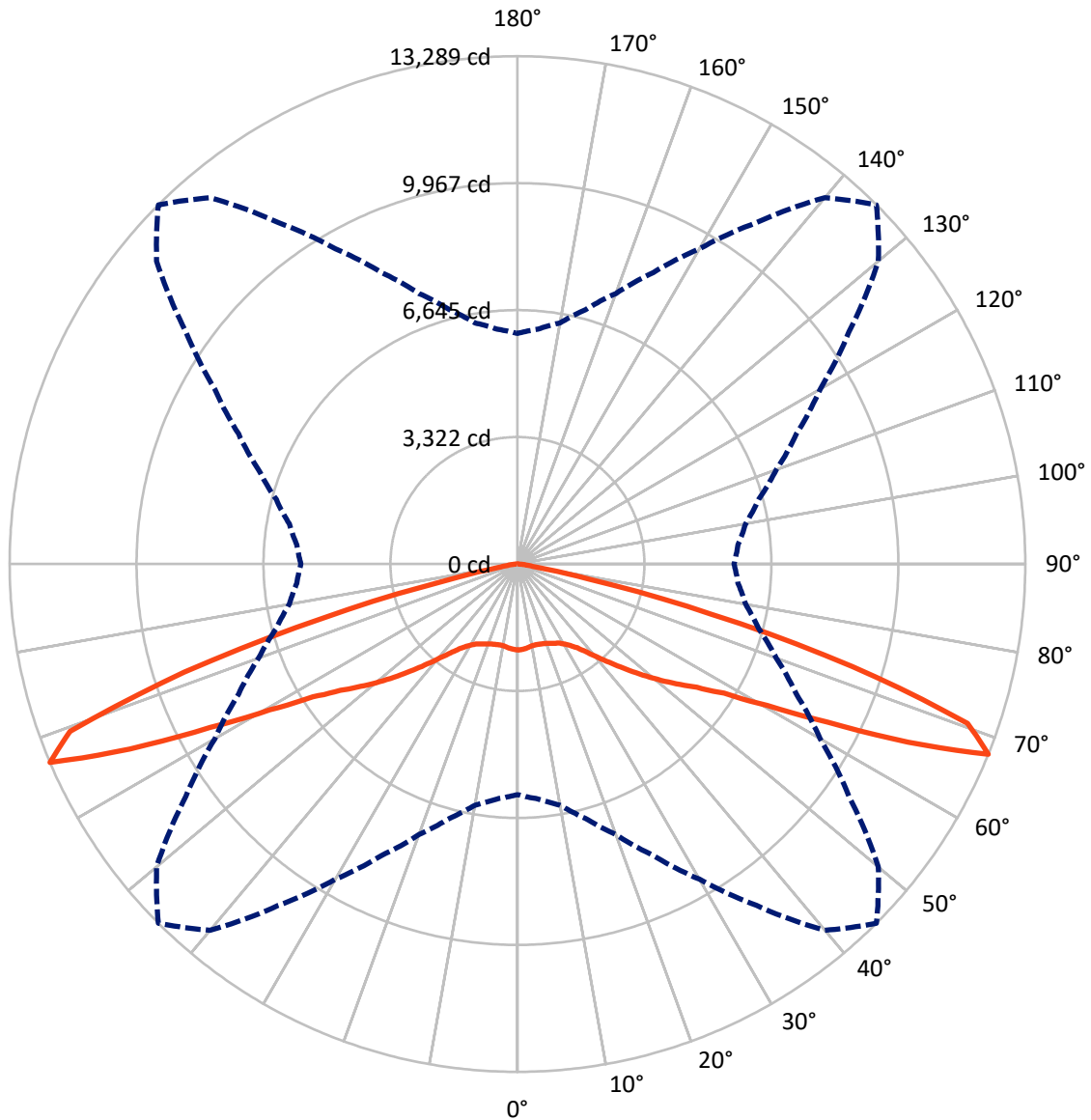
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11290.0	0.0	11290.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11290.0	0.0	11290.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22580.0	0.0	22580.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.6	0.9
10°-20°	611.1	2.7
20°-30°	1038.9	4.6
30°-40°	1698.3	7.5
40°-50°	3031.8	13.4
50°-60°	5111.8	22.6
60°-70°	7932.7	35.1
70°-80°	2787.2	12.3
80°-90°	157.5	0.7
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°	22580.0	100.0
0°-180°	22580.0	100.0



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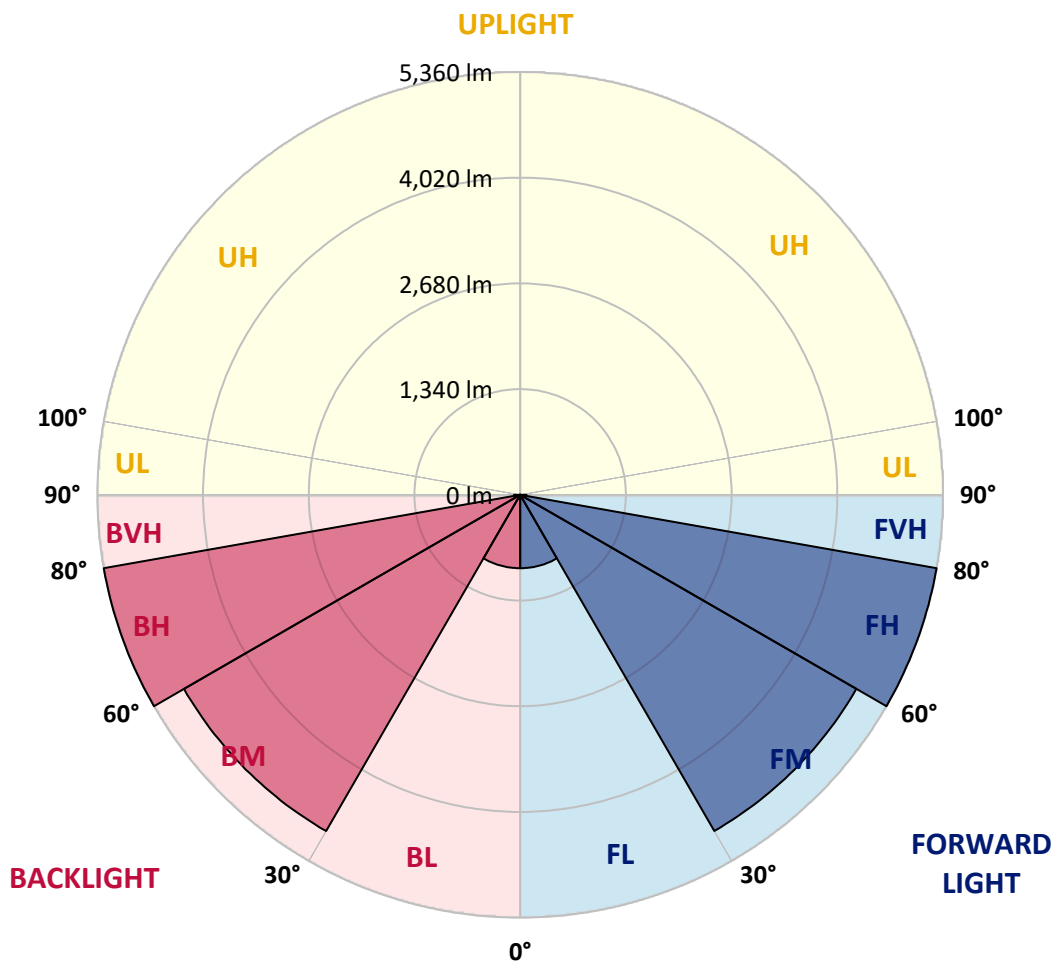
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.3	4.1			
FM	(30°-60°)	4921.0	21.8			
FH	(60°-80°)	5359.9	23.7			G3/7500
FVH	(80°-90°)	78.8	0.3			G1/100
BL	(0°-30°)	930.3	4.1	B2/1000		
BM	(30°-60°)	4921.0	21.8	B3/5000		
BH	(60°-80°)	5359.9	23.7	B5		G3/7500
BVH	(80°-90°)	78.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2241.9	2244.0	2244.0	2244.0	2242.9	2242.9	2240.8	2242.9	2241.9	2238.8	2239.8
5°	2223.2	2225.3	2225.3	2224.2	2227.3	2226.3	2223.2	2225.3	2224.2	2222.2	2223.2
7.5°	2196.2	2199.3	2199.3	2198.3	2201.4	2200.3	2198.3	2199.3	2199.3	2196.2	2196.2
10°	2166.1	2168.2	2168.2	2167.1	2172.3	2172.3	2171.3	2174.4	2175.4	2172.3	2170.2
12.5°	2138.0	2141.2	2141.2	2145.3	2150.5	2152.6	2157.8	2161.9	2166.1	2165.0	2160.9
15°	2121.4	2123.5	2127.7	2132.9	2141.2	2148.4	2156.7	2166.1	2174.4	2176.5	2170.2
17.5°	2111.0	2114.2	2120.4	2127.7	2139.1	2151.5	2164.0	2176.5	2187.9	2192.0	2184.8
20°	2107.9	2110.0	2116.2	2128.7	2144.3	2163.0	2180.6	2195.2	2210.7	2215.9	2210.7
22.5°	2114.2	2118.3	2125.6	2140.1	2160.9	2184.8	2205.5	2225.3	2245.0	2254.3	2247.1
25°	2142.2	2146.4	2155.7	2174.4	2197.2	2222.2	2246.0	2268.9	2286.5	2295.9	2290.7
27.5°	2194.1	2199.3	2210.7	2229.4	2254.3	2281.3	2307.3	2326.0	2340.5	2343.6	2337.4
30°	2272.0	2283.4	2296.9	2317.7	2346.8	2369.6	2395.6	2412.2	2429.8	2429.8	2424.6
32.5°	2393.5	2404.9	2419.4	2439.2	2462.0	2486.9	2509.8	2524.3	2543.0	2544.1	2531.6
35°	2575.2	2580.4	2592.9	2605.3	2626.1	2647.9	2667.6	2677.0	2692.5	2693.6	2682.2
37.5°	2815.1	2816.1	2824.4	2828.6	2847.3	2871.1	2889.8	2896.1	2910.6	2908.5	2897.1
40°	3094.4	3099.6	3102.7	3108.9	3128.7	3151.5	3171.2	3174.4	3189.9	3186.8	3172.3
42.5°	3417.3	3419.4	3437.1	3446.4	3465.1	3476.5	3501.5	3504.6	3523.3	3515.0	3498.3
45°	3779.7	3798.4	3815.0	3833.7	3853.5	3867.0	3886.7	3882.5	3895.0	3882.5	3873.2
47.5°	4160.8	4174.3	4211.7	4240.8	4273.0	4284.4	4312.4	4300.0	4312.4	4294.8	4291.7
50°	4580.3	4604.2	4636.4	4669.6	4703.9	4722.6	4758.9	4743.4	4760.0	4743.4	4734.0
52.5°	4993.6	4999.9	5070.5	5119.3	5167.0	5188.8	5210.6	5203.4	5204.4	5203.4	5194.0
55°	5386.1	5400.7	5471.3	5537.7	5620.8	5682.1	5719.5	5715.3	5706.0	5696.6	5681.0
57.5°	5828.5	5843.0	5924.0	6006.1	6100.5	6187.8	6263.6	6341.5	6371.6	6379.9	6345.6
60°	6426.6	6425.6	6533.6	6633.2	6768.2	6898.0	7064.2	7233.4	7427.6	7517.9	7398.5
62.5°	7035.1	7060.0	7215.8	7392.3	7670.6	7941.6	8247.9	8549.1	8856.4	9106.7	8840.9
65°	6962.4	7057.9	7289.5	7689.3	8203.3	8813.9	9474.3	10173.1	10804.5	11238.5	10751.5
67.5°	6034.1	6170.1	6405.8	6891.8	7534.6	8415.1	9524.1	10906.2	12512.6	13289.3	12326.7
70°	4373.7	4527.4	4774.5	5249.1	5885.6	6722.5	7927.1	9586.4	11713.0	12496.0	11435.8
72.5°	2176.5	2259.5	2412.2	2714.4	3196.2	3875.3	4967.7	6562.6	8444.2	9162.8	8193.9
75°	739.3	777.8	803.7	902.4	1055.0	1321.9	1864.9	2869.1	4376.8	5247.0	4314.5
77.5°	426.8	427.8	445.5	463.1	489.1	518.2	590.8	775.7	1341.6	1905.4	1388.3
80°	276.2	275.2	289.7	303.2	320.9	335.4	339.6	359.3	414.3	491.2	439.2
82.5°	143.3	161.0	193.1	210.8	244.0	250.3	241.9	234.7	248.2	257.5	263.8
85°	78.9	68.5	102.8	132.9	147.5	149.5	149.5	141.2	146.4	143.3	155.8
87.5°	36.3	33.2	40.5	65.4	69.6	59.2	62.3	55.0	39.5	38.4	43.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2239.8	2240.8	2240.8	2244.0	2245.0	2247.1	2249.2	2250.2
5°	2222.2	2225.3	2223.2	2226.3	2226.3	2228.4	2228.4	2229.4
7.5°	2196.2	2199.3	2199.3	2199.3	2198.3	2201.4	2201.4	2201.4
10°	2169.2	2171.3	2170.2	2168.2	2166.1	2169.2	2168.2	2167.1
12.5°	2160.9	2155.7	2151.5	2149.5	2145.3	2146.4	2143.2	2143.2
15°	2166.1	2156.7	2149.5	2146.4	2142.2	2140.1	2138.0	2139.1
17.5°	2179.6	2168.2	2158.8	2153.6	2148.4	2145.3	2141.2	2142.2
20°	2203.5	2190.0	2176.5	2166.1	2156.7	2151.5	2148.4	2147.4
22.5°	2238.8	2219.0	2199.3	2183.7	2171.3	2164.0	2160.9	2158.8
25°	2279.3	2257.5	2234.6	2217.0	2204.5	2195.2	2188.9	2188.9
27.5°	2330.1	2312.5	2291.7	2271.0	2259.5	2250.2	2246.0	2244.0
30°	2415.3	2398.7	2382.1	2362.3	2347.8	2338.5	2331.2	2325.0
32.5°	2524.3	2510.8	2497.3	2482.8	2469.3	2456.8	2445.4	2440.2
35°	2678.0	2667.6	2658.3	2641.7	2636.5	2629.2	2623.0	2617.8
37.5°	2889.8	2885.7	2885.7	2868.0	2863.9	2860.8	2854.5	2855.6
40°	3168.1	3172.3	3167.1	3160.9	3157.7	3149.4	3149.4	3156.7
42.5°	3497.3	3500.4	3511.8	3501.5	3512.9	3502.5	3496.3	3501.5
45°	3879.4	3890.8	3913.7	3903.3	3910.6	3892.9	3871.1	3872.2
47.5°	4308.3	4318.7	4328.0	4320.7	4321.8	4292.7	4263.6	4256.4
50°	4753.8	4757.9	4763.1	4752.7	4754.8	4722.6	4689.4	4690.4
52.5°	5194.0	5213.8	5234.5	5206.5	5200.3	5163.9	5117.2	5098.5
55°	5697.6	5725.7	5701.8	5653.0	5604.2	5555.4	5494.1	5483.7
57.5°	6318.6	6270.8	6196.1	6103.7	6036.2	5967.6	5905.3	5879.4
60°	7182.5	7002.9	6867.9	6730.8	6644.7	6560.6	6478.5	6466.1
62.5°	8403.7	8093.2	7824.3	7540.8	7309.2	7128.6	6984.2	6943.7
65°	9934.3	9200.1	8563.6	7969.6	7453.6	7064.2	6819.1	6711.1
67.5°	10592.6	9143.0	8051.7	7208.5	6533.6	6062.1	5797.3	5665.5
70°	9308.1	7582.3	6395.4	5551.2	4936.5	4433.9	4194.1	4052.8
72.5°	6403.8	4823.3	3814.0	3113.1	2621.9	2201.4	2035.2	2022.8
75°	2875.3	1904.4	1312.5	1011.4	851.5	740.4	706.1	680.1
77.5°	804.8	595.0	530.6	496.4	463.1	424.7	410.2	413.3
80°	391.5	369.7	355.1	333.3	303.2	271.0	256.5	262.7
82.5°	259.6	256.5	265.8	250.3	206.6	175.5	147.5	135.0
85°	157.8	159.9	163.0	164.1	139.1	97.6	66.5	74.8
87.5°	62.3	71.6	77.9	81.0	75.8	46.7	37.4	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)