

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: P191011

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191011
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19002.3 lumens
Efficiency: N/A
Efficacy: 114.5 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): 166
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

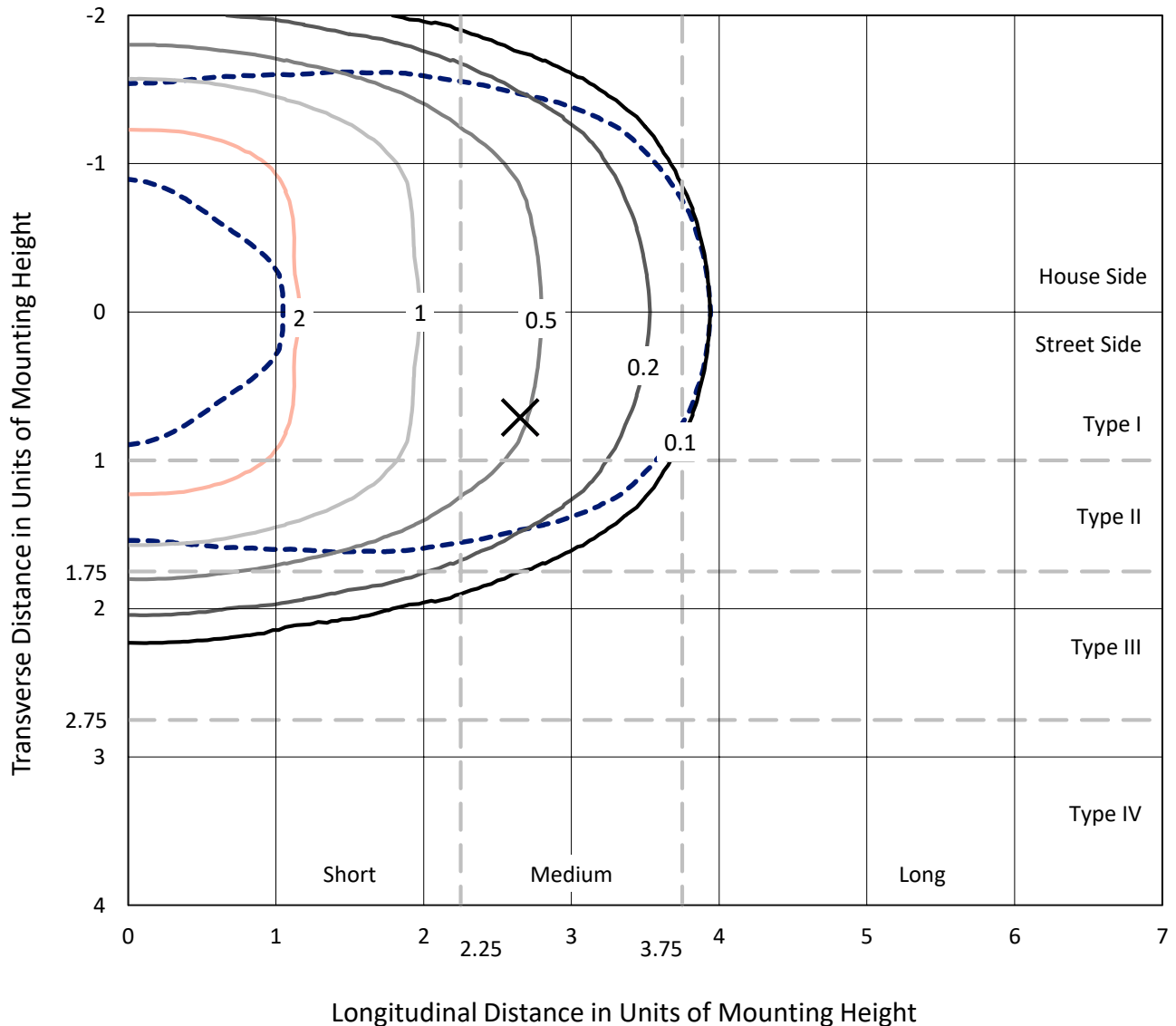


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

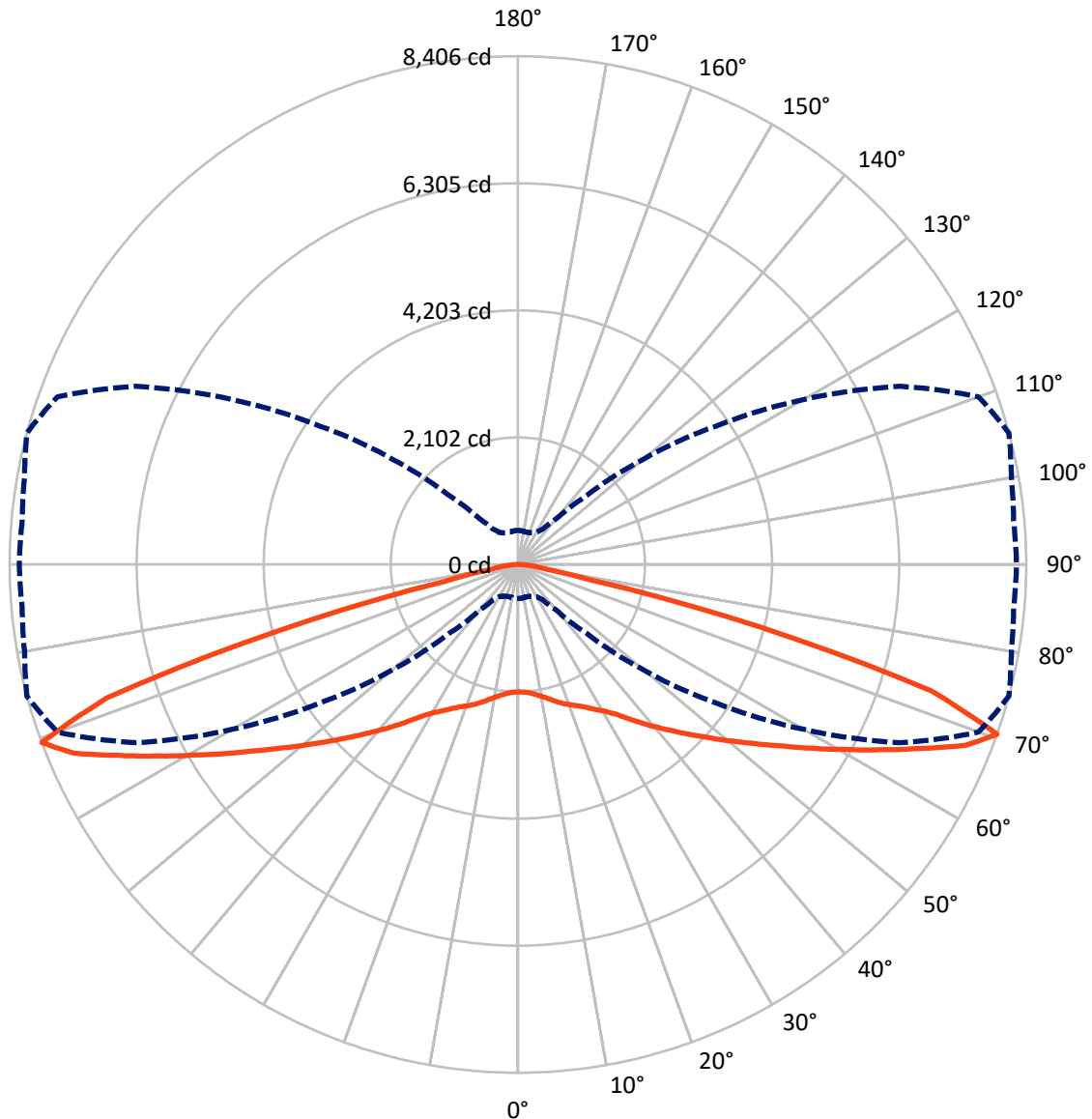


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	9501.2	0.0	9501.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9501.2	0.0	9501.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19002.3	0.0	19002.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.1
10°-20°	628.1	3.3
20°-30°	1182.2	6.2
30°-40°	2093.5	11.0
40°-50°	3501.0	18.4
50°-60°	4878.7	25.7
60°-70°	4524.2	23.8
70°-80°	1803.0	9.5
80°-90°	189.5	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°	19002.3	100.0
0°-180°	19002.3	100.0



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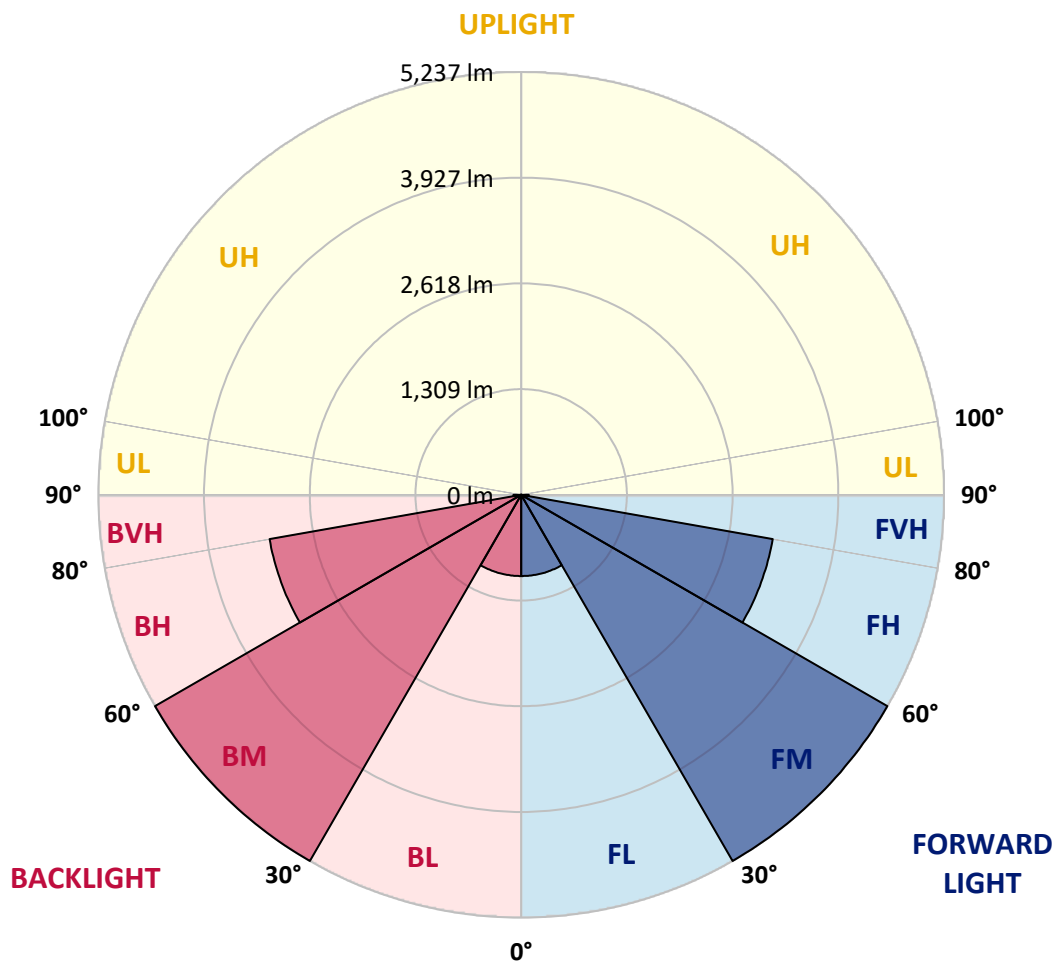
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.3	5.3			
FM (30°-60°)	5236.6	27.6			
FH (60°-80°)	3163.6	16.6			G2/5000
FVH (80°-90°)	94.8	0.5			G1/100
BL (0°-30°)	1006.3	5.3	B3/2500		
BM (30°-60°)	5236.6	27.6	B4/8500		
BH (60°-80°)	3163.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	94.8	0.5			G1/100
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°	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8
2.5°	2104.2	2102.4	2104.2	2103.3	2105.1	2105.1	2106.9	2110.4	2110.4	2113.2	2112.3
5°	2083.5	2082.6	2085.4	2088.0	2090.7	2096.1	2101.6	2109.6	2115.9	2120.4	2124.9
7.5°	2043.1	2043.1	2046.7	2053.1	2059.3	2071.0	2083.5	2099.7	2115.9	2129.4	2141.0
10°	2009.9	2011.7	2016.2	2027.0	2037.7	2055.7	2072.8	2096.1	2118.5	2141.0	2159.0
12.5°	1990.2	1992.8	2000.9	2017.1	2035.1	2059.3	2085.4	2115.0	2140.1	2167.1	2185.0
15°	1996.4	1998.2	2009.9	2029.6	2053.1	2083.5	2118.5	2153.6	2183.3	2212.0	2236.3
17.5°	2031.5	2034.1	2047.6	2070.0	2094.3	2130.3	2167.9	2207.5	2244.4	2276.7	2306.2
20°	2094.3	2097.0	2114.1	2138.4	2167.1	2203.9	2241.6	2282.9	2324.2	2358.4	2391.6
22.5°	2183.3	2187.7	2203.9	2228.2	2260.5	2300.0	2344.9	2388.9	2428.4	2459.9	2489.5
25°	2300.0	2309.8	2325.2	2352.1	2386.2	2422.1	2470.6	2515.5	2553.3	2582.8	2604.4
27.5°	2465.2	2478.7	2490.4	2516.5	2549.7	2583.8	2632.3	2671.8	2707.8	2736.5	2752.7
30°	2684.3	2697.8	2709.5	2734.7	2765.2	2797.6	2843.3	2878.4	2900.8	2923.3	2922.4
32.5°	2950.2	2964.6	2969.1	2996.0	3027.4	3062.5	3103.7	3123.6	3141.5	3144.1	3128.0
35°	3247.5	3254.6	3272.6	3308.5	3344.4	3373.2	3412.7	3422.6	3422.6	3409.1	3373.2
37.5°	3573.5	3578.0	3603.1	3643.5	3680.4	3709.9	3736.9	3756.7	3746.8	3718.0	3657.9
40°	3930.9	3939.0	3974.9	4010.9	4052.1	4080.0	4108.7	4112.4	4102.4	4060.2	3978.5
42.5°	4272.1	4279.4	4315.3	4371.9	4425.8	4464.4	4491.3	4496.7	4465.3	4426.6	4325.1
45°	4565.8	4584.8	4631.4	4697.9	4776.1	4830.8	4867.6	4882.9	4855.0	4804.7	4687.1
47.5°	4798.5	4817.3	4883.8	4962.8	5059.8	5148.7	5209.8	5242.1	5235.0	5197.2	5068.8
50°	4969.1	4987.1	5058.9	5155.9	5269.0	5379.5	5483.7	5561.0	5587.9	5570.8	5453.1
52.5°	4988.8	5018.5	5102.9	5233.1	5380.4	5531.3	5679.5	5810.6	5899.5	5913.0	5825.9
55°	4713.1	4742.8	4859.5	5052.7	5271.8	5517.8	5754.9	5975.9	6151.0	6240.8	6195.0
57.5°	4063.0	4115.9	4238.9	4465.3	4787.7	5155.9	5534.0	5926.5	6283.0	6521.0	6566.8
60°	3113.7	3176.6	3300.4	3541.1	3900.4	4339.6	4844.3	5424.4	6054.0	6589.2	6908.9
62.5°	1997.3	2056.6	2186.9	2396.1	2688.8	3164.8	3706.4	4395.2	5241.2	6086.4	6847.8
65°	1026.5	1058.9	1127.1	1253.7	1481.8	1837.5	2323.3	3010.3	3977.6	5020.3	6121.3
67.5°	650.2	656.5	671.8	689.8	748.1	871.1	1097.4	1525.8	2321.6	3409.1	4697.9
70°	562.2	562.2	555.1	552.3	559.6	576.5	611.6	711.3	979.8	1618.3	2709.5
72.5°	514.6	509.2	496.6	486.7	485.0	485.0	492.1	507.4	550.6	659.2	1060.6
75°	474.1	458.9	441.8	430.2	425.6	421.3	420.3	423.0	432.0	449.1	506.6
77.5°	424.8	405.0	385.2	373.6	368.3	361.9	356.5	350.3	345.8	351.2	376.3
80°	365.5	343.1	327.8	320.6	315.3	306.3	294.6	283.8	273.9	272.1	287.3
82.5°	294.6	268.5	269.4	272.1	262.3	249.7	237.1	225.5	208.4	199.4	208.4
85°	238.0	224.5	218.2	235.3	221.0	202.0	182.3	161.6	134.7	113.1	123.1
87.5°	92.5	92.5	138.3	212.9	191.3	156.3	133.8	114.1	71.0	54.8	55.6
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°	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8	2107.8
2.5°	2111.4	2113.2	2112.3	2111.4	2111.4	2110.4	2111.4	2111.4
5°	2127.5	2132.0	2132.0	2133.9	2133.9	2134.7	2135.6	2134.7
7.5°	2151.8	2159.9	2165.3	2171.5	2172.4	2173.4	2175.2	2173.4
10°	2176.0	2192.2	2203.9	2215.6	2220.9	2222.8	2224.5	2224.5
12.5°	2206.6	2229.0	2249.7	2270.3	2280.3	2285.6	2285.6	2289.3
15°	2256.8	2279.3	2303.6	2331.4	2348.5	2357.5	2360.2	2360.2
17.5°	2327.8	2347.6	2368.2	2395.2	2416.7	2428.4	2431.1	2430.2
20°	2410.5	2429.3	2441.0	2458.0	2476.9	2490.4	2494.0	2494.0
22.5°	2504.8	2515.5	2517.3	2522.7	2537.9	2555.9	2564.0	2565.9
25°	2608.9	2611.6	2604.4	2604.4	2614.4	2631.3	2639.4	2640.3
27.5°	2743.7	2730.2	2712.3	2705.9	2712.3	2732.0	2741.8	2745.4
30°	2911.6	2879.3	2838.0	2815.5	2811.9	2838.0	2855.9	2858.6
32.5°	3103.7	3057.1	3002.3	2956.5	2944.8	2960.9	2982.5	2981.6
35°	3331.9	3276.2	3209.7	3151.4	3124.4	3140.6	3171.1	3174.7
37.5°	3595.1	3522.3	3445.9	3372.3	3330.1	3334.6	3366.9	3377.7
40°	3888.7	3794.4	3698.3	3599.6	3539.3	3527.6	3567.2	3573.5
42.5°	4203.0	4081.8	3960.6	3838.4	3761.2	3743.2	3789.0	3786.4
45°	4538.0	4383.5	4241.7	4106.9	4015.3	3988.4	4026.1	4026.1
47.5°	4898.2	4707.7	4538.9	4386.2	4286.6	4247.9	4283.8	4286.6
50°	5279.9	5077.7	4879.3	4709.6	4590.1	4540.7	4587.4	4594.6
52.5°	5659.7	5463.1	5262.8	5068.8	4924.2	4864.0	4917.9	4941.3
55°	6045.0	5851.9	5660.6	5471.2	5299.6	5228.6	5286.1	5315.8
57.5°	6451.9	6273.1	6090.8	5899.5	5734.3	5623.8	5684.8	5724.4
60°	6928.8	6776.0	6586.6	6375.5	6208.5	6096.2	6131.3	6166.2
62.5°	7305.9	7365.1	7204.4	6960.2	6745.5	6601.8	6636.0	6672.8
65°	7123.6	7731.6	7874.4	7627.4	7330.2	7106.5	7092.1	7111.0
67.5°	5954.3	7135.3	7996.5	8231.8	7983.1	7672.3	7614.8	7642.7
70°	3983.0	5454.1	6973.7	8105.2	8406.1	8285.7	8229.1	8246.2
72.5°	1912.9	3176.6	4731.1	6235.4	7151.4	7571.8	7706.5	7772.0
75°	699.6	1260.9	2280.3	3436.1	4148.3	4802.0	5228.6	5402.9
77.5°	422.1	509.2	728.3	1096.6	1242.1	1390.2	1332.8	1361.4
80°	312.5	352.9	399.7	449.1	465.2	465.2	447.2	432.9
82.5°	219.1	245.2	267.6	294.6	301.8	288.3	237.1	188.6
85°	141.0	152.6	162.5	179.6	175.1	167.0	112.2	99.7
87.5°	64.7	73.7	77.2	85.3	81.7	78.2	55.6	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)