

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: P193543

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193543
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-05-LED-E1-RW-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20049 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

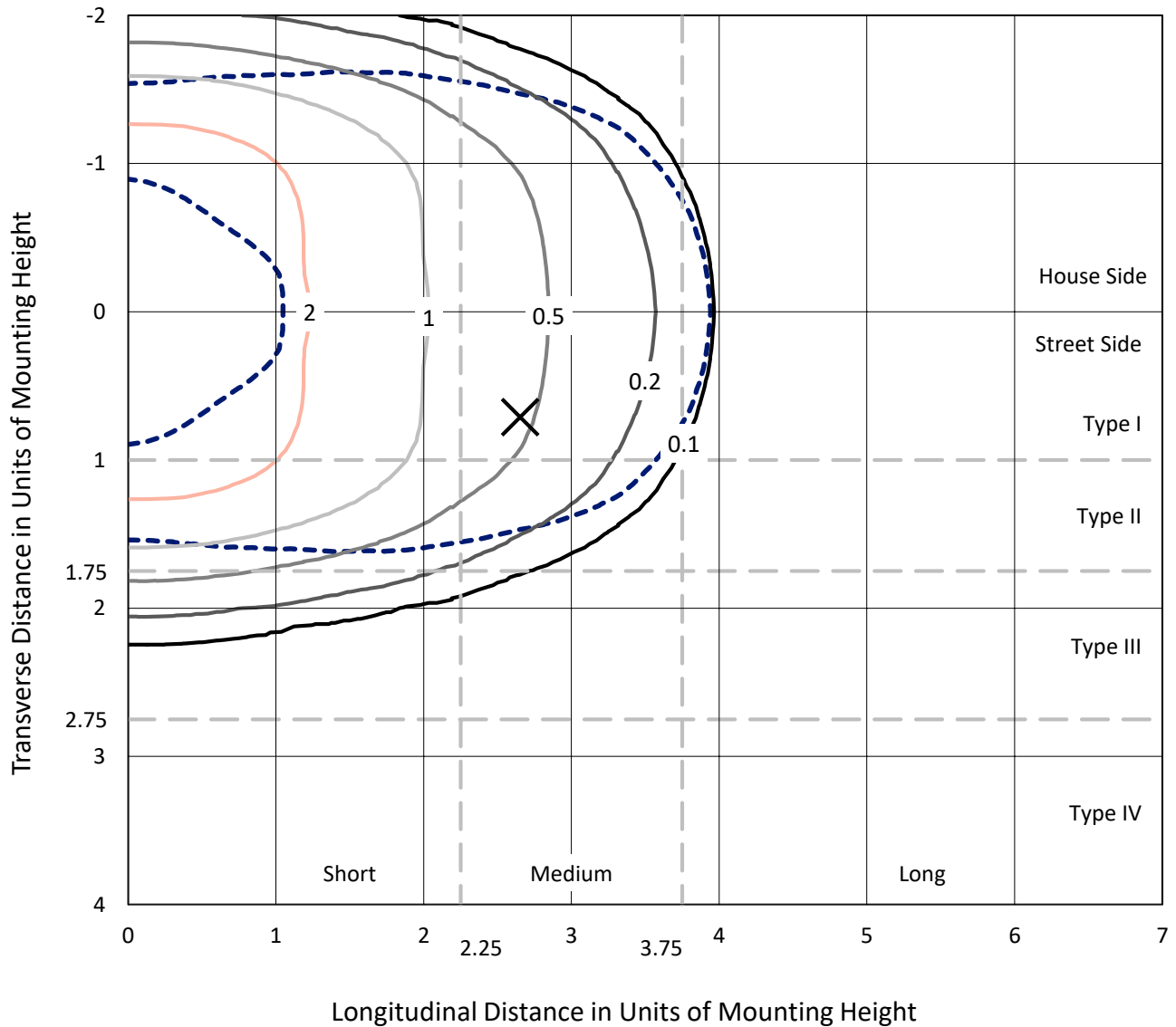
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

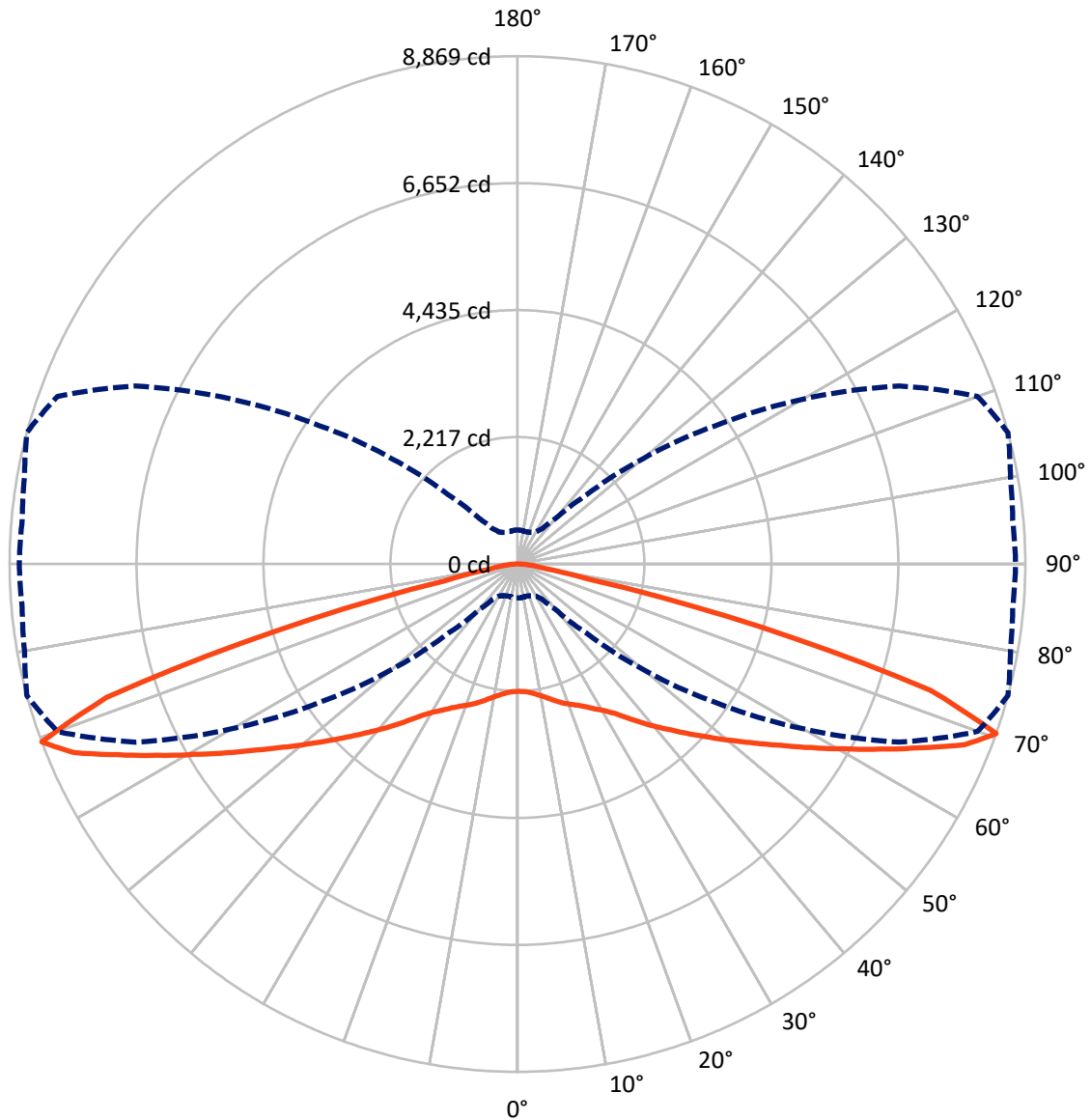


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - Full Cutoff

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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	10024.5	0.0	10024.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10024.5	0.0	10024.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20049.0	0.0	20049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.1
10°-20°	662.7	3.3
20°-30°	1247.3	6.2
30°-40°	2208.8	11.0
40°-50°	3693.8	18.4
50°-60°	5147.4	25.7
60°-70°	4773.4	23.8
70°-80°	1902.3	9.5
80°-90°	200.0	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°	20049.0	100.0
0°-180°	20049.0	100.0



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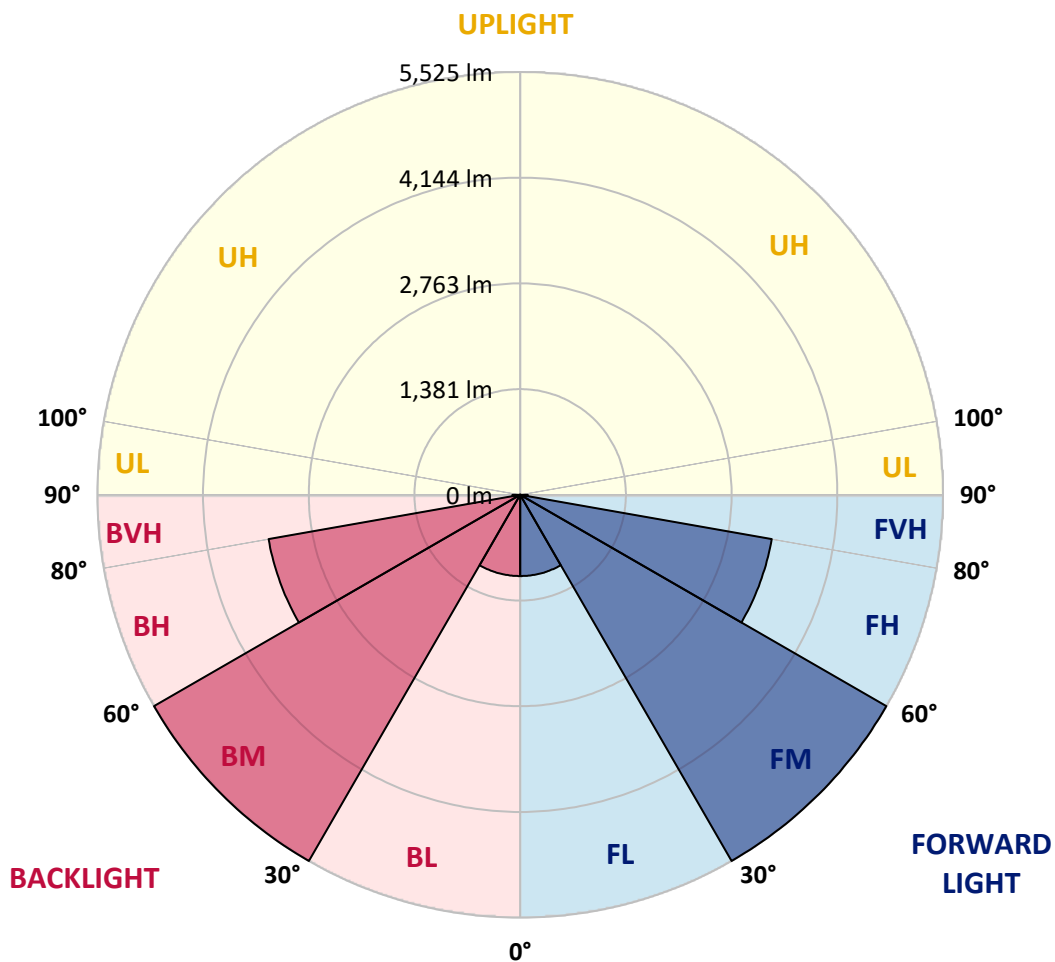
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.7	5.3			
FM	(30°-60°)	5525.0	27.6			
FH	(60°-80°)	3337.8	16.6			G2/5000
FVH	(80°-90°)	100.0	0.5			G1/100
BL	(0°-30°)	1061.7	5.3	B3/2500		
BM	(30°-60°)	5525.0	27.6	B4/8500		
BH	(60°-80°)	3337.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	100.0	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°	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9
2.5°	2220.1	2218.2	2220.1	2219.2	2221.1	2221.1	2223.0	2226.7	2226.7	2229.6	2228.6
5°	2198.3	2197.4	2200.2	2203.1	2205.9	2211.6	2217.3	2225.8	2232.4	2237.2	2241.9
7.5°	2155.7	2155.7	2159.5	2166.1	2172.7	2185.1	2198.3	2215.4	2232.4	2246.6	2259.0
10°	2120.6	2122.5	2127.3	2138.6	2150.0	2168.9	2186.9	2211.6	2235.3	2259.0	2277.9
12.5°	2099.8	2102.6	2111.1	2128.2	2147.1	2172.7	2200.2	2231.5	2258.0	2286.4	2305.4
15°	2106.4	2108.3	2120.6	2141.5	2166.1	2198.3	2235.3	2272.2	2303.5	2333.8	2359.4
17.5°	2143.4	2146.2	2160.4	2184.1	2209.7	2247.6	2287.4	2329.1	2367.9	2402.0	2433.3
20°	2209.7	2212.5	2230.5	2256.1	2286.4	2325.3	2365.1	2408.7	2452.3	2488.3	2523.3
22.5°	2303.5	2308.2	2325.3	2350.9	2385.0	2426.7	2474.1	2520.5	2562.2	2595.3	2626.6
25°	2426.7	2437.1	2453.2	2481.6	2517.6	2555.5	2606.7	2654.1	2693.9	2725.2	2747.9
27.5°	2601.0	2615.2	2627.6	2655.0	2690.1	2726.1	2777.3	2819.0	2856.9	2887.2	2904.2
30°	2832.2	2846.4	2858.8	2885.3	2917.5	2951.6	2999.9	3036.9	3060.6	3084.3	3083.3
32.5°	3112.7	3127.9	3132.6	3161.0	3194.2	3231.1	3274.7	3295.6	3314.5	3317.4	3300.3
35°	3426.3	3433.9	3452.9	3490.8	3528.7	3559.0	3600.7	3611.1	3611.1	3596.9	3559.0
37.5°	3770.3	3775.0	3801.6	3844.2	3883.1	3914.3	3942.8	3963.6	3953.2	3922.9	3859.4
40°	4147.4	4156.0	4193.9	4231.8	4275.3	4304.7	4335.0	4338.8	4328.4	4283.9	4197.6
42.5°	4507.5	4515.1	4553.0	4612.7	4669.5	4710.3	4738.7	4744.4	4711.2	4670.5	4563.4
45°	4817.3	4837.2	4886.5	4956.6	5039.1	5096.9	5135.7	5151.8	5122.5	5069.4	4945.3
47.5°	5062.8	5082.7	5152.8	5236.2	5338.5	5432.3	5496.7	5530.9	5523.3	5483.5	5348.0
50°	5242.8	5261.7	5337.6	5439.9	5559.3	5675.8	5785.7	5867.2	5895.7	5877.7	5753.5
52.5°	5263.6	5294.9	5384.0	5521.4	5676.8	5836.0	5992.3	6130.7	6224.5	6238.7	6146.8
55°	4972.7	5004.0	5127.2	5330.9	5562.1	5821.8	6071.9	6305.0	6489.8	6584.5	6536.2
57.5°	4286.7	4342.6	4472.4	4711.2	5051.4	5439.9	5838.8	6252.9	6629.1	6880.2	6928.5
60°	3285.2	3351.5	3482.2	3736.2	4115.2	4578.6	5111.1	5723.2	6387.4	6952.2	7289.5
62.5°	2107.4	2169.9	2307.3	2528.1	2837.0	3339.2	3910.5	4637.3	5529.9	6421.6	7225.1
65°	1083.1	1117.2	1189.2	1322.8	1563.5	1938.7	2451.3	3176.2	4196.7	5296.8	6458.5
67.5°	686.0	692.7	708.8	727.7	789.3	919.1	1157.9	1609.9	2449.4	3596.9	4956.6
70°	593.2	593.2	585.6	582.7	590.3	608.3	645.3	750.5	1033.8	1707.5	2858.8
72.5°	542.9	537.3	524.0	513.6	511.7	511.7	519.3	535.4	580.8	695.5	1119.1
75°	500.3	484.2	466.2	453.9	449.1	444.4	443.5	446.3	455.8	473.8	534.4
77.5°	448.2	427.3	406.5	394.2	388.5	381.9	376.2	369.5	364.8	370.5	397.0
80°	385.7	362.0	345.9	338.3	332.6	323.1	310.8	299.4	289.0	287.1	303.2
82.5°	310.8	283.3	284.3	287.1	276.7	263.4	250.2	237.8	219.8	210.4	219.8
85°	251.1	236.9	230.3	248.3	233.1	213.2	192.4	170.6	142.1	119.4	129.8
87.5°	97.6	97.6	145.9	224.6	201.8	164.9	141.2	120.3	74.9	57.8	58.7
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°	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9	2223.9
2.5°	2227.7	2229.6	2228.6	2227.7	2227.7	2226.7	2227.7	2227.7
5°	2244.7	2249.5	2249.5	2251.4	2251.4	2252.3	2253.3	2252.3
7.5°	2270.3	2278.9	2284.5	2291.2	2292.1	2293.1	2295.0	2293.1
10°	2295.9	2313.0	2325.3	2337.6	2343.3	2345.2	2347.1	2347.1
12.5°	2328.1	2351.8	2373.6	2395.4	2405.8	2411.5	2411.5	2415.3
15°	2381.2	2404.9	2430.5	2459.8	2477.8	2487.3	2490.2	2490.2
17.5°	2456.1	2476.9	2498.7	2527.1	2549.9	2562.2	2565.0	2564.1
20°	2543.2	2563.1	2575.4	2593.4	2613.3	2627.6	2631.3	2631.3
22.5°	2642.7	2654.1	2656.0	2661.7	2677.8	2696.7	2705.3	2707.2
25°	2752.6	2755.5	2747.9	2747.9	2758.3	2776.3	2784.9	2785.8
27.5°	2894.8	2880.6	2861.6	2855.0	2861.6	2882.4	2892.9	2896.7
30°	3072.0	3037.8	2994.3	2970.6	2966.8	2994.3	3013.2	3016.1
32.5°	3274.7	3225.5	3167.7	3119.3	3107.0	3124.1	3146.8	3145.9
35°	3515.4	3456.7	3386.5	3325.0	3296.5	3313.6	3345.8	3349.6
37.5°	3793.0	3716.3	3635.8	3558.1	3513.5	3518.3	3552.4	3563.7
40°	4102.9	4003.4	3902.0	3797.8	3734.3	3722.0	3763.7	3770.3
42.5°	4434.5	4306.6	4178.7	4049.8	3968.3	3949.4	3997.7	3994.9
45°	4788.0	4625.0	4475.3	4333.1	4236.5	4208.1	4247.9	4247.9
47.5°	5167.9	4967.1	4788.9	4627.8	4522.7	4481.9	4519.8	4522.7
50°	5570.7	5357.5	5148.0	4969.0	4842.9	4790.8	4840.1	4847.7
52.5°	5971.5	5764.0	5552.6	5348.0	5195.4	5131.9	5188.8	5213.4
55°	6378.0	6174.2	5972.4	5772.5	5591.5	5516.6	5577.3	5608.6
57.5°	6807.2	6618.6	6426.3	6224.5	6050.1	5933.6	5998.0	6039.7
60°	7310.4	7149.3	6949.3	6726.7	6550.4	6432.0	6468.9	6505.9
62.5°	7708.3	7770.9	7601.3	7343.5	7117.1	6965.4	7001.5	7040.3
65°	7516.0	8157.5	8308.1	8047.5	7733.9	7498.0	7482.8	7502.7
67.5°	6282.3	7528.3	8437.0	8685.2	8422.8	8094.9	8034.3	8063.7
70°	4202.4	5754.5	7357.7	8551.6	8869.1	8742.1	8682.4	8700.4
72.5°	2018.3	3351.5	4991.7	6578.8	7545.3	7988.8	8130.9	8200.1
75°	738.1	1330.4	2405.8	3625.3	4376.7	5066.6	5516.6	5700.5
77.5°	445.3	537.3	768.5	1157.0	1310.5	1466.8	1406.2	1436.5
80°	329.7	372.4	421.7	473.8	490.8	490.8	471.9	456.7
82.5°	231.2	258.7	282.4	310.8	318.4	304.2	250.2	199.0
85°	148.8	161.1	171.5	189.5	184.8	176.2	118.4	105.2
87.5°	68.2	77.7	81.5	90.0	86.2	82.4	58.7	49.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)