

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: P191802

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191802
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19830 lumens
Efficiency: N/A
Efficacy: 116.0 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

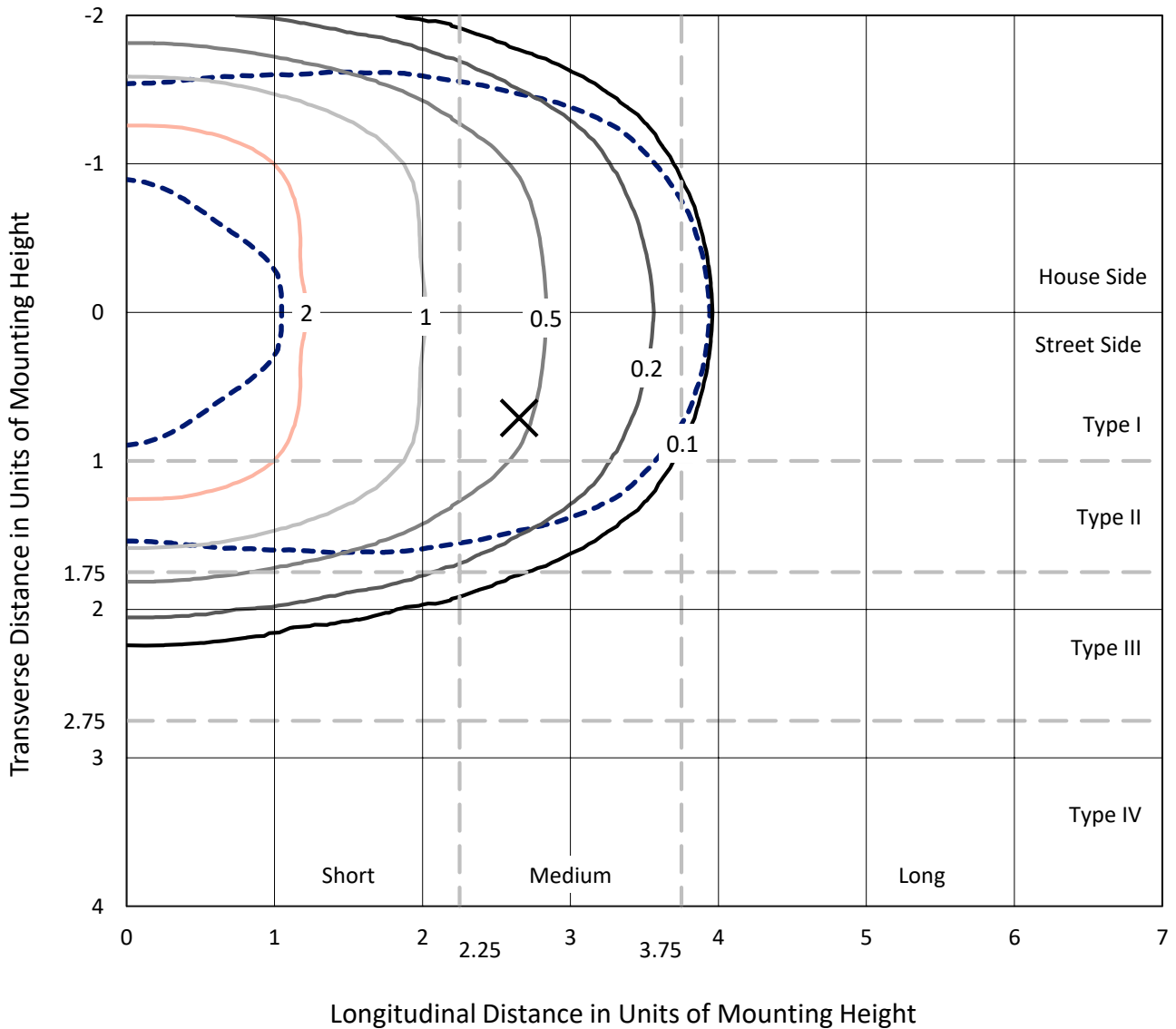
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191802
 CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

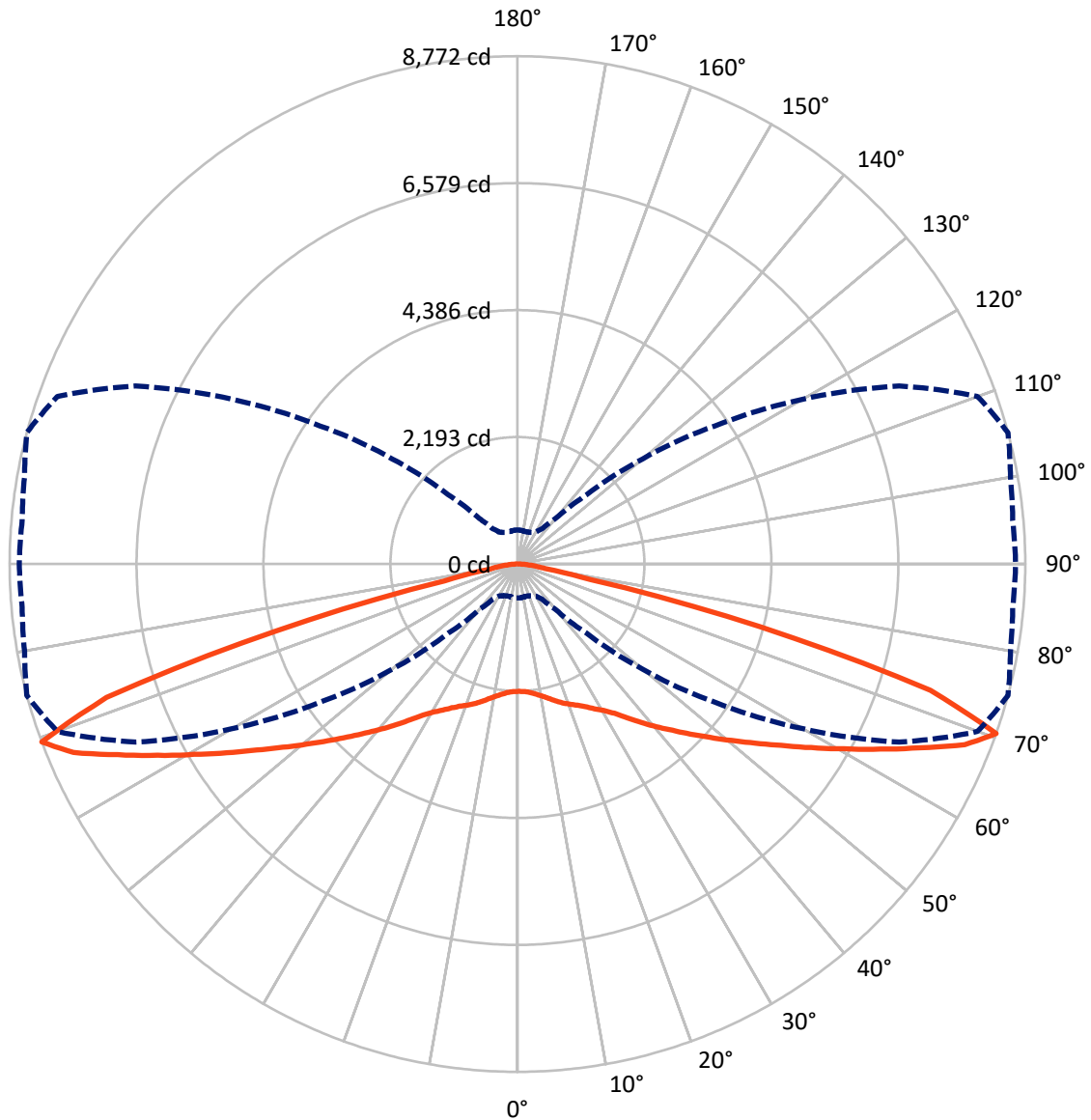


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191802

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191802

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9915.0	0.0	9915.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9915.0	0.0	9915.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19830.0	0.0	19830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	1.1
10°-20°	655.5	3.3
20°-30°	1233.7	6.2
30°-40°	2184.7	11.0
40°-50°	3653.5	18.4
50°-60°	5091.1	25.7
60°-70°	4721.2	23.8
70°-80°	1881.5	9.5
80°-90°	197.8	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°	19830.0	100.0
0°-180°	19830.0	100.0



REPORT NUMBER: P191802

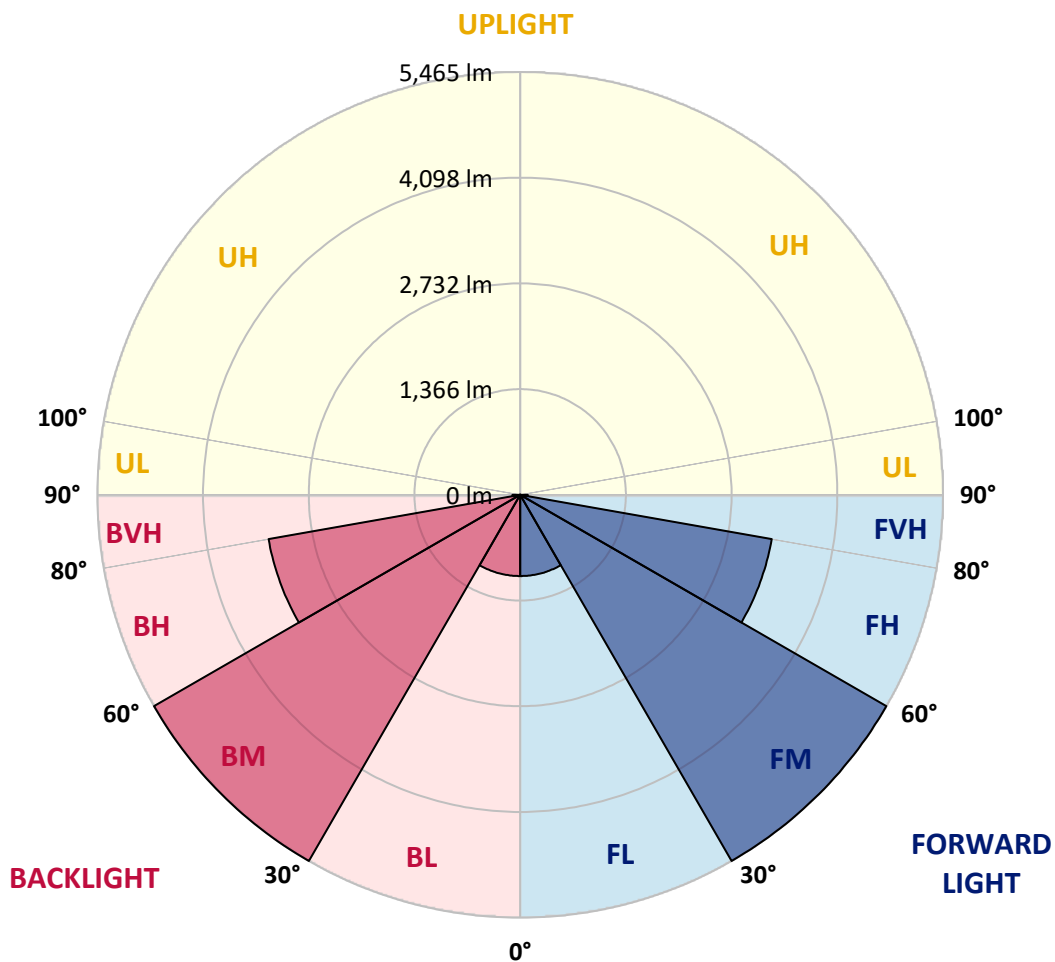
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.1	5.3			
FM	(30°-60°)	5464.7	27.6			
FH	(60°-80°)	3301.4	16.6			G2/5000
FVH	(80°-90°)	98.9	0.5			G1/100
BL	(0°-30°)	1050.1	5.3	B3/2500		
BM	(30°-60°)	5464.7	27.6	B4/8500		
BH	(60°-80°)	3301.4	16.6	B4/5000		G4/5000
BVH	(80°-90°)	98.9	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





REPORT NUMBER: P191802

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6
2.5°	2195.9	2194.0	2195.9	2194.9	2196.8	2196.8	2198.7	2202.4	2202.4	2205.2	2204.3
5°	2174.3	2173.4	2176.2	2179.0	2181.8	2187.4	2193.0	2201.5	2208.0	2212.7	2217.4
7.5°	2132.1	2132.1	2135.9	2142.4	2149.0	2161.2	2174.3	2191.2	2208.0	2222.1	2234.3
10°	2097.5	2099.3	2104.0	2115.3	2126.5	2145.3	2163.1	2187.4	2210.9	2234.3	2253.0
12.5°	2076.8	2079.6	2088.1	2105.0	2123.7	2149.0	2176.2	2207.1	2233.3	2261.5	2280.2
15°	2083.4	2085.3	2097.5	2118.1	2142.4	2174.3	2210.9	2247.4	2278.3	2308.3	2333.6
17.5°	2119.9	2122.8	2136.8	2160.2	2185.6	2223.0	2262.4	2303.6	2342.1	2375.8	2406.7
20°	2185.6	2188.4	2206.2	2231.5	2261.5	2299.9	2339.3	2382.4	2425.5	2461.1	2495.8
22.5°	2278.3	2283.0	2299.9	2325.2	2358.9	2400.2	2447.0	2493.0	2534.2	2567.0	2597.9
25°	2400.2	2410.5	2426.4	2454.5	2490.1	2527.6	2578.2	2625.1	2664.5	2695.4	2717.9
27.5°	2572.6	2586.7	2598.9	2626.0	2660.7	2696.3	2746.9	2788.2	2825.7	2855.6	2872.5
30°	2801.3	2815.3	2827.5	2853.8	2885.6	2919.4	2967.2	3003.7	3027.2	3050.6	3049.6
32.5°	3078.7	3093.7	3098.4	3126.5	3159.3	3195.9	3239.0	3259.6	3278.3	3281.1	3264.3
35°	3388.9	3396.4	3415.2	3452.6	3490.1	3520.1	3561.4	3571.7	3571.7	3557.6	3520.1
37.5°	3729.1	3733.8	3760.0	3802.2	3840.6	3871.6	3899.7	3920.3	3910.0	3880.0	3817.2
40°	4102.1	4110.6	4148.0	4185.5	4228.6	4257.7	4287.7	4291.4	4281.1	4237.1	4151.8
42.5°	4458.3	4465.8	4503.2	4562.3	4618.5	4658.8	4686.9	4692.6	4659.8	4619.5	4513.6
45°	4764.7	4784.4	4833.1	4902.5	4984.0	5041.2	5079.6	5095.6	5066.5	5014.0	4891.2
47.5°	5007.5	5027.1	5096.5	5179.0	5280.2	5373.0	5436.7	5470.4	5462.9	5423.6	5289.6
50°	5185.5	5204.3	5279.2	5380.5	5498.6	5613.8	5722.5	5803.1	5831.3	5813.5	5690.7
52.5°	5206.1	5237.1	5325.2	5461.1	5614.8	5772.2	5926.9	6063.7	6156.5	6170.5	6079.6
55°	4918.4	4949.4	5071.2	5272.7	5501.4	5758.2	6005.6	6236.1	6418.9	6512.6	6464.8
57.5°	4239.9	4295.2	4423.6	4659.8	4996.2	5380.5	5775.0	6184.6	6556.7	6805.0	6852.8
60°	3249.3	3314.9	3444.2	3695.4	4070.3	4528.6	5055.3	5660.7	6317.7	6876.2	7209.9
62.5°	2084.3	2146.2	2282.1	2500.5	2806.0	3302.7	3867.8	4586.7	5469.5	6351.4	7146.2
65°	1071.2	1105.0	1176.2	1308.3	1546.4	1917.5	2424.5	3141.5	4150.9	5238.9	6388.0
67.5°	678.5	685.1	701.0	719.8	780.7	909.1	1145.3	1592.3	2422.7	3557.6	4902.5
70°	586.7	586.7	579.2	576.4	583.9	601.7	638.2	742.3	1022.5	1688.8	2827.5
72.5°	537.0	531.4	518.3	508.0	506.1	506.1	513.6	529.5	574.5	687.9	1106.8
75°	494.8	478.9	461.1	448.9	444.2	439.5	438.6	441.4	450.8	468.6	528.6
77.5°	443.3	422.7	402.1	389.9	384.3	377.7	372.1	365.5	360.8	366.4	392.7
80°	381.4	358.0	342.1	334.6	329.0	319.6	307.4	296.2	285.8	284.0	299.9
82.5°	307.4	280.2	281.2	284.0	273.7	260.5	247.4	235.2	217.4	208.1	217.4
85°	248.4	234.3	227.7	245.5	230.6	210.9	190.3	168.7	140.6	118.1	128.4
87.5°	96.5	96.5	144.3	222.1	199.6	163.1	139.6	119.0	74.0	57.2	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191802

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6	2199.6
2.5°	2203.4	2205.2	2204.3	2203.4	2203.4	2202.4	2203.4	2203.4
5°	2220.2	2224.9	2224.9	2226.8	2226.8	2227.7	2228.7	2227.7
7.5°	2245.5	2254.0	2259.6	2266.2	2267.1	2268.0	2269.9	2268.0
10°	2270.8	2287.7	2299.9	2312.1	2317.7	2319.6	2321.4	2321.4
12.5°	2302.7	2326.1	2347.7	2369.2	2379.6	2385.2	2385.2	2388.9
15°	2355.2	2378.6	2403.9	2433.0	2450.8	2460.2	2463.0	2463.0
17.5°	2429.2	2449.8	2471.4	2499.5	2522.0	2534.2	2537.0	2536.1
20°	2515.4	2535.1	2547.3	2565.1	2584.8	2598.9	2602.6	2602.6
22.5°	2613.9	2625.1	2627.0	2632.6	2648.5	2667.3	2675.7	2677.6
25°	2722.6	2725.4	2717.9	2717.9	2728.2	2746.0	2754.4	2755.4
27.5°	2863.1	2849.1	2830.3	2823.8	2830.3	2851.0	2861.3	2865.0
30°	3038.4	3004.7	2961.6	2938.1	2934.4	2961.6	2980.3	2983.1
32.5°	3239.0	3190.2	3133.1	3085.3	3073.1	3089.9	3112.4	3111.5
35°	3477.0	3418.9	3349.6	3288.6	3260.5	3277.4	3309.3	3313.0
37.5°	3751.6	3675.7	3596.0	3519.2	3475.1	3479.8	3513.6	3524.8
40°	4058.1	3959.7	3859.4	3756.3	3693.5	3681.3	3722.6	3729.1
42.5°	4386.1	4259.6	4133.1	4005.6	3925.0	3906.3	3954.0	3951.2
45°	4735.7	4574.5	4426.4	4285.8	4190.2	4162.1	4201.5	4201.5
47.5°	5111.5	4912.8	4736.6	4577.3	4473.3	4433.0	4470.4	4473.3
50°	5509.8	5298.9	5091.8	4914.7	4790.0	4738.5	4787.2	4794.7
52.5°	5906.2	5701.0	5492.0	5289.6	5138.7	5075.9	5132.1	5156.5
55°	6308.3	6106.8	5907.2	5709.4	5530.4	5456.4	5516.4	5547.3
57.5°	6732.8	6546.3	6356.1	6156.5	5984.0	5868.7	5932.5	5973.7
60°	7230.5	7071.2	6873.4	6653.2	6478.9	6361.7	6398.3	6434.8
62.5°	7624.1	7686.0	7518.2	7263.3	7039.3	6889.4	6925.0	6963.4
65°	7433.9	8068.4	8217.4	7959.6	7649.4	7416.1	7401.1	7420.8
67.5°	6213.6	7446.1	8344.8	8590.4	8330.8	8006.5	7946.5	7975.6
70°	4156.5	5691.6	7277.4	8458.2	8772.2	8646.6	8587.6	8605.4
72.5°	1996.2	3314.9	4937.2	6507.0	7462.9	7901.5	8042.1	8110.5
75°	730.1	1315.8	2379.6	3585.7	4328.9	5011.2	5456.4	5638.2
77.5°	440.5	531.4	760.1	1144.3	1296.1	1450.8	1390.8	1420.8
80°	326.1	368.3	417.1	468.6	485.5	485.5	466.7	451.7
82.5°	228.7	255.9	279.3	307.4	314.9	300.8	247.4	196.8
85°	147.1	159.3	169.6	187.4	182.8	174.3	117.2	104.0
87.5°	67.5	76.9	80.6	89.0	85.3	81.5	58.1	48.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)