

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: P190993

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190993
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20495.8 lumens
Efficiency: N/A
Efficacy: 126.5 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): 162
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

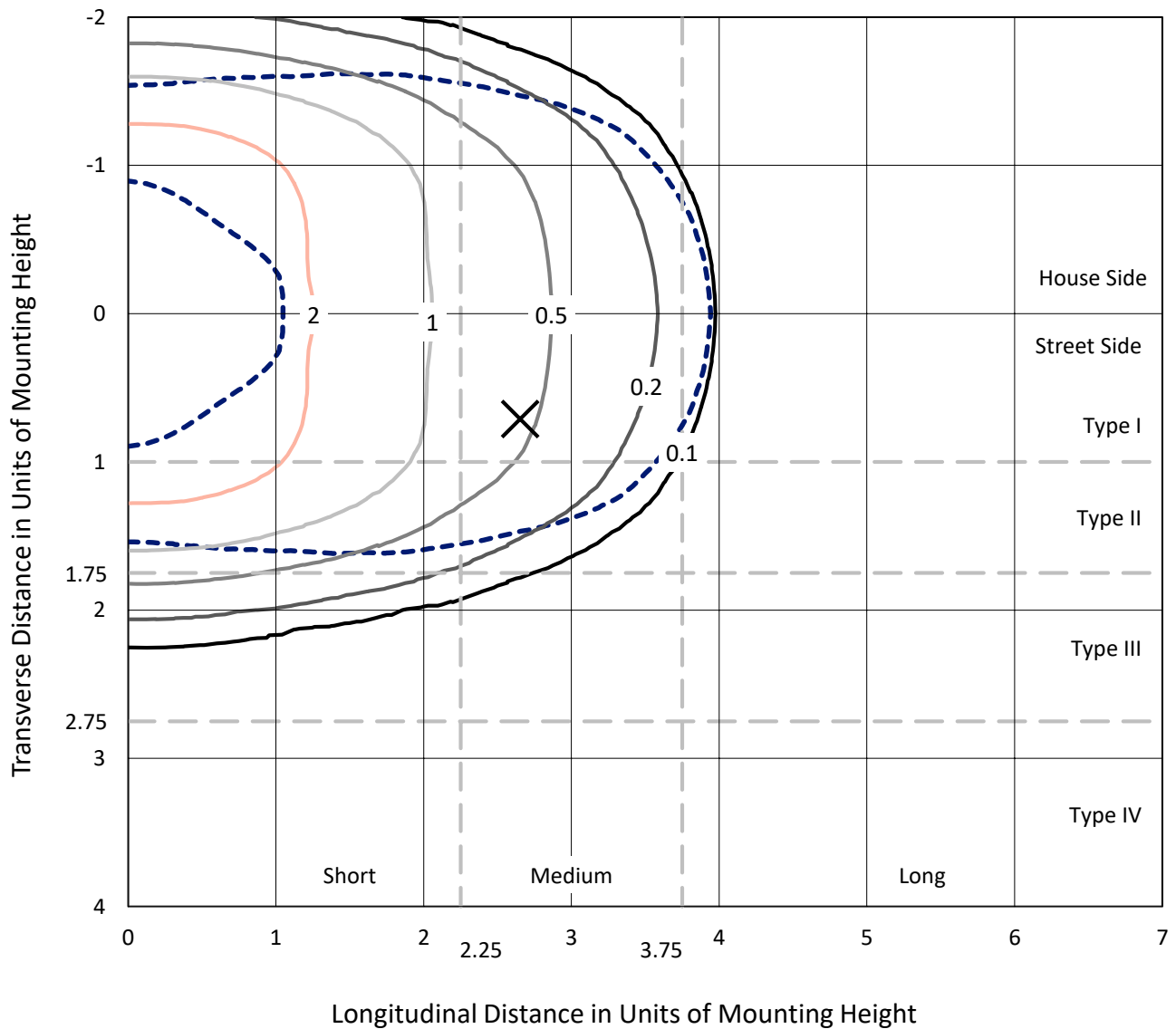


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

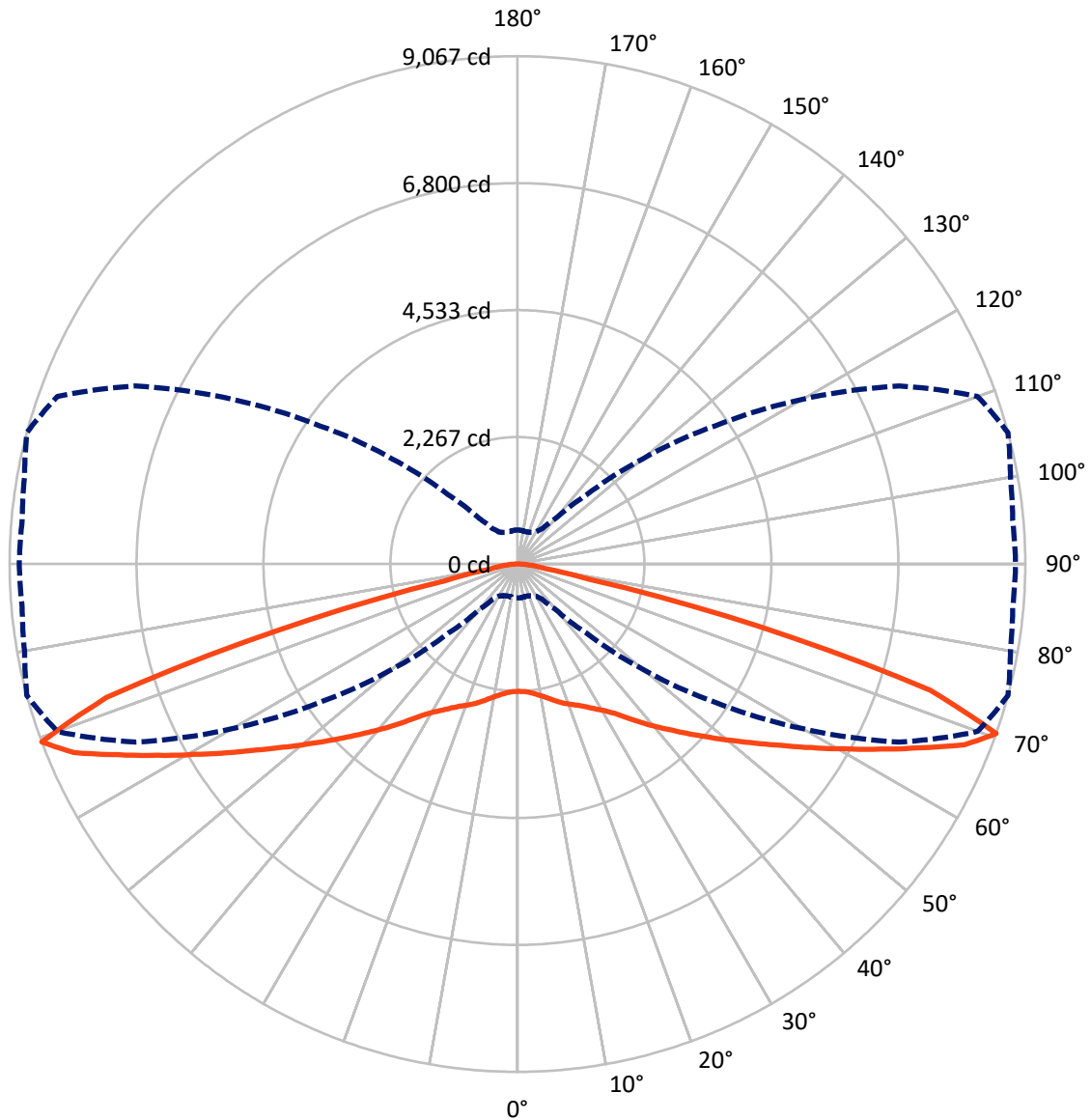


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	10247.9	0.0	10247.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10247.9	0.0	10247.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	20495.8	0.0	20495.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	1.1
10°-20°	677.5	3.3
20°-30°	1275.1	6.2
30°-40°	2258.0	11.0
40°-50°	3776.2	18.4
50°-60°	5262.1	25.7
60°-70°	4879.7	23.8
70°-80°	1944.7	9.5
80°-90°	204.4	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°	20495.8	100.0
0°-180°	20495.8	100.0

Coefficient of Utilization



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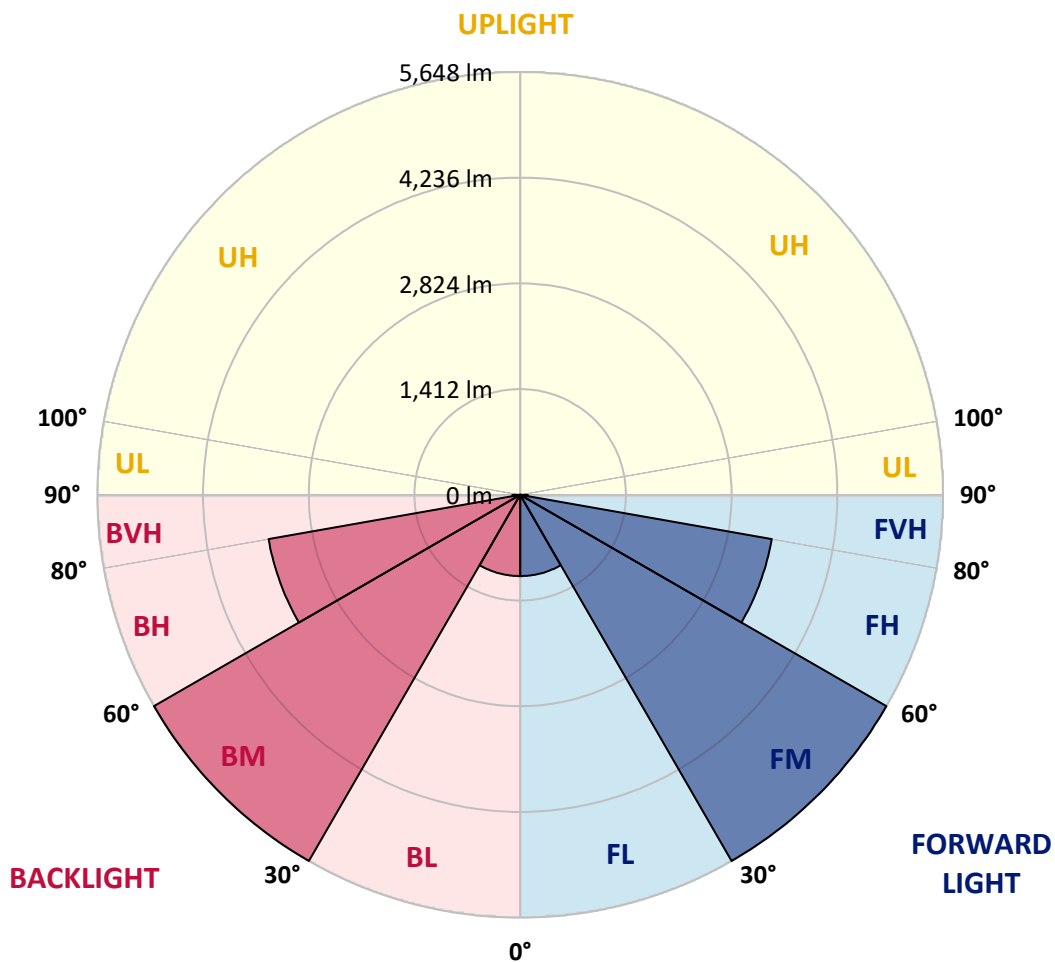
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.3	5.3			
FM	(30°-60°)	5648.1	27.6			
FH	(60°-80°)	3412.2	16.6			G2/5000
FVH	(80°-90°)	102.2	0.5			G2/225
BL	(0°-30°)	1085.3	5.3	B3/2500		
BM	(30°-60°)	5648.1	27.6	B4/8500		
BH	(60°-80°)	3412.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	102.2	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°	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5
2.5°	2269.6	2267.7	2269.6	2268.6	2270.5	2270.5	2272.5	2276.4	2276.4	2279.2	2278.3
5°	2247.3	2246.3	2249.3	2252.1	2255.1	2260.8	2266.7	2275.5	2282.2	2287.0	2291.9
7.5°	2203.7	2203.7	2207.6	2214.4	2221.1	2233.7	2247.3	2264.7	2282.2	2296.7	2309.3
10°	2167.8	2169.8	2174.7	2186.3	2197.9	2217.2	2235.7	2260.8	2285.1	2309.3	2328.6
12.5°	2146.6	2149.5	2158.2	2175.6	2195.0	2221.1	2249.3	2281.2	2308.3	2337.4	2356.8
15°	2153.3	2155.3	2167.8	2189.2	2214.4	2247.3	2285.1	2322.9	2354.8	2385.8	2412.0
17.5°	2191.2	2194.0	2208.6	2232.8	2259.0	2297.6	2338.4	2381.0	2420.7	2455.6	2487.5
20°	2259.0	2261.8	2280.3	2306.4	2337.4	2377.1	2417.8	2462.3	2506.9	2543.8	2579.6
22.5°	2354.8	2359.6	2377.1	2403.2	2438.1	2480.8	2529.2	2576.7	2619.3	2653.2	2685.1
25°	2480.8	2491.4	2507.9	2536.9	2573.7	2612.5	2664.8	2713.3	2753.9	2785.9	2809.1
27.5°	2659.0	2673.5	2686.2	2714.2	2750.1	2786.8	2839.2	2881.8	2920.5	2951.5	2969.0
30°	2895.4	2909.9	2922.5	2949.6	2982.5	3017.4	3066.8	3104.6	3128.8	3153.0	3152.0
32.5°	3182.1	3197.5	3202.4	3231.5	3265.4	3303.2	3347.7	3369.0	3388.4	3391.3	3373.9
35°	3502.7	3510.5	3529.8	3568.6	3607.3	3638.3	3681.0	3691.6	3691.6	3677.1	3638.3
37.5°	3854.4	3859.2	3886.3	3929.9	3969.6	4001.6	4030.6	4051.9	4041.3	4010.3	3945.4
40°	4239.8	4248.6	4287.3	4326.1	4370.7	4400.6	4431.6	4435.5	4424.9	4379.4	4291.2
42.5°	4608.0	4615.8	4654.4	4715.5	4773.6	4815.2	4844.3	4850.1	4816.3	4774.5	4665.1
45°	4924.7	4945.0	4995.5	5067.1	5151.4	5210.5	5250.2	5266.7	5236.6	5182.4	5055.5
47.5°	5175.6	5196.0	5267.6	5352.9	5457.4	5553.4	5619.3	5654.2	5646.4	5605.7	5467.2
50°	5359.6	5379.0	5456.5	5561.2	5683.2	5802.3	5914.7	5998.0	6027.0	6008.6	5881.8
52.5°	5380.9	5412.9	5504.0	5644.4	5803.3	5966.1	6125.8	6267.3	6363.2	6377.7	6283.8
55°	5083.6	5115.6	5241.5	5449.8	5686.1	5951.5	6207.3	6445.5	6634.4	6731.3	6681.9
57.5°	4382.2	4439.4	4572.1	4816.3	5164.0	5561.2	5968.9	6392.2	6776.8	7033.5	7082.9
60°	3358.3	3426.2	3559.9	3819.5	4206.9	4680.6	5225.0	5850.8	6529.8	7107.2	7452.0
62.5°	2154.3	2218.3	2358.7	2584.4	2900.2	3413.6	3997.7	4740.7	5653.1	6564.7	7386.1
65°	1107.1	1142.0	1215.7	1352.2	1598.3	1981.9	2505.9	3246.9	4290.3	5414.9	6602.4
67.5°	701.3	708.1	724.6	743.9	806.9	939.6	1183.8	1645.7	2504.0	3677.1	5067.1
70°	606.4	606.4	598.6	595.8	603.4	621.9	659.7	767.2	1056.8	1745.6	2922.5
72.5°	555.1	549.2	535.7	525.0	523.0	523.0	530.8	547.3	593.8	711.1	1144.0
75°	511.5	495.0	476.6	464.0	459.1	454.3	453.4	456.2	466.0	484.4	546.4
77.5°	458.2	436.9	415.5	402.9	397.1	390.4	384.5	377.8	373.0	378.8	405.9
80°	394.2	370.0	353.5	345.9	340.0	330.3	317.7	306.1	295.4	293.5	310.0
82.5°	317.7	289.6	290.6	293.5	282.8	269.2	255.7	243.2	224.7	215.0	224.7
85°	256.7	242.1	235.4	253.8	238.2	218.0	196.6	174.3	145.3	122.0	132.7
87.5°	99.7	99.7	149.1	229.6	206.3	168.6	144.3	123.1	76.5	59.1	60.0
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°	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5	2273.5
2.5°	2277.3	2279.2	2278.3	2277.3	2277.3	2276.4	2277.3	2277.3
5°	2294.8	2299.6	2299.6	2301.5	2301.5	2302.6	2303.5	2302.6
7.5°	2321.0	2329.7	2335.5	2342.3	2343.2	2344.2	2346.1	2344.2
10°	2347.1	2364.6	2377.1	2389.7	2395.5	2397.5	2399.4	2399.4
12.5°	2380.0	2404.2	2426.5	2448.8	2459.5	2465.3	2465.3	2469.1
15°	2434.3	2458.5	2484.6	2514.6	2533.0	2542.7	2545.6	2545.6
17.5°	2510.8	2532.1	2554.4	2583.5	2606.7	2619.3	2622.2	2621.2
20°	2599.9	2620.3	2632.9	2651.3	2671.6	2686.2	2690.0	2690.0
22.5°	2701.6	2713.3	2715.2	2720.9	2737.4	2756.9	2765.5	2767.5
25°	2813.9	2816.9	2809.1	2809.1	2819.8	2838.2	2846.9	2847.9
27.5°	2959.3	2944.8	2925.3	2918.6	2925.3	2946.7	2957.4	2961.2
30°	3140.5	3105.6	3061.0	3036.7	3032.9	3061.0	3080.4	3083.3
32.5°	3347.7	3297.4	3238.3	3188.8	3176.3	3193.7	3217.0	3216.0
35°	3593.7	3533.7	3462.1	3399.1	3370.0	3387.4	3420.3	3424.2
37.5°	3877.6	3799.1	3716.8	3637.3	3591.8	3596.7	3631.6	3643.1
40°	4194.3	4092.6	3989.0	3882.4	3817.6	3805.0	3847.5	3854.4
42.5°	4533.4	4402.6	4271.8	4140.1	4056.8	4037.4	4086.8	4083.9
45°	4894.7	4728.1	4575.0	4429.7	4331.0	4301.8	4342.5	4342.5
47.5°	5283.1	5077.7	4895.6	4730.9	4623.4	4581.8	4620.6	4623.4
50°	5694.8	5476.9	5262.8	5079.7	4950.9	4897.6	4948.0	4955.7
52.5°	6104.6	5892.4	5676.4	5467.2	5311.3	5246.3	5304.4	5329.6
55°	6520.1	6311.8	6105.5	5901.1	5716.1	5639.6	5701.6	5733.5
57.5°	6958.9	6766.1	6569.5	6363.2	6185.0	6065.8	6131.7	6174.3
60°	7473.3	7308.6	7104.2	6876.6	6696.4	6575.3	6613.1	6650.9
62.5°	7880.1	7944.0	7770.6	7507.2	7275.6	7120.7	7157.5	7197.2
65°	7683.5	8339.3	8493.3	8226.9	7906.3	7665.1	7649.6	7669.9
67.5°	6422.3	7696.1	8625.0	8878.8	8610.5	8275.4	8213.4	8243.3
70°	4296.1	5882.7	7521.8	8742.2	9066.7	8936.9	8875.9	8894.4
72.5°	2063.3	3426.2	5103.0	6725.5	7713.6	8166.8	8312.2	8382.9
75°	754.6	1360.0	2459.5	3706.2	4474.3	5179.5	5639.6	5827.5
77.5°	455.3	549.2	785.6	1182.7	1339.7	1499.5	1437.6	1468.5
80°	337.1	380.6	431.1	484.4	501.8	501.8	482.4	466.9
82.5°	236.4	264.4	288.7	317.7	325.5	311.0	255.7	203.5
85°	152.1	164.7	175.3	193.7	188.9	180.1	121.1	107.5
87.5°	69.8	79.4	83.3	92.1	88.2	84.3	60.0	50.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)