

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: P193383

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20232 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

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

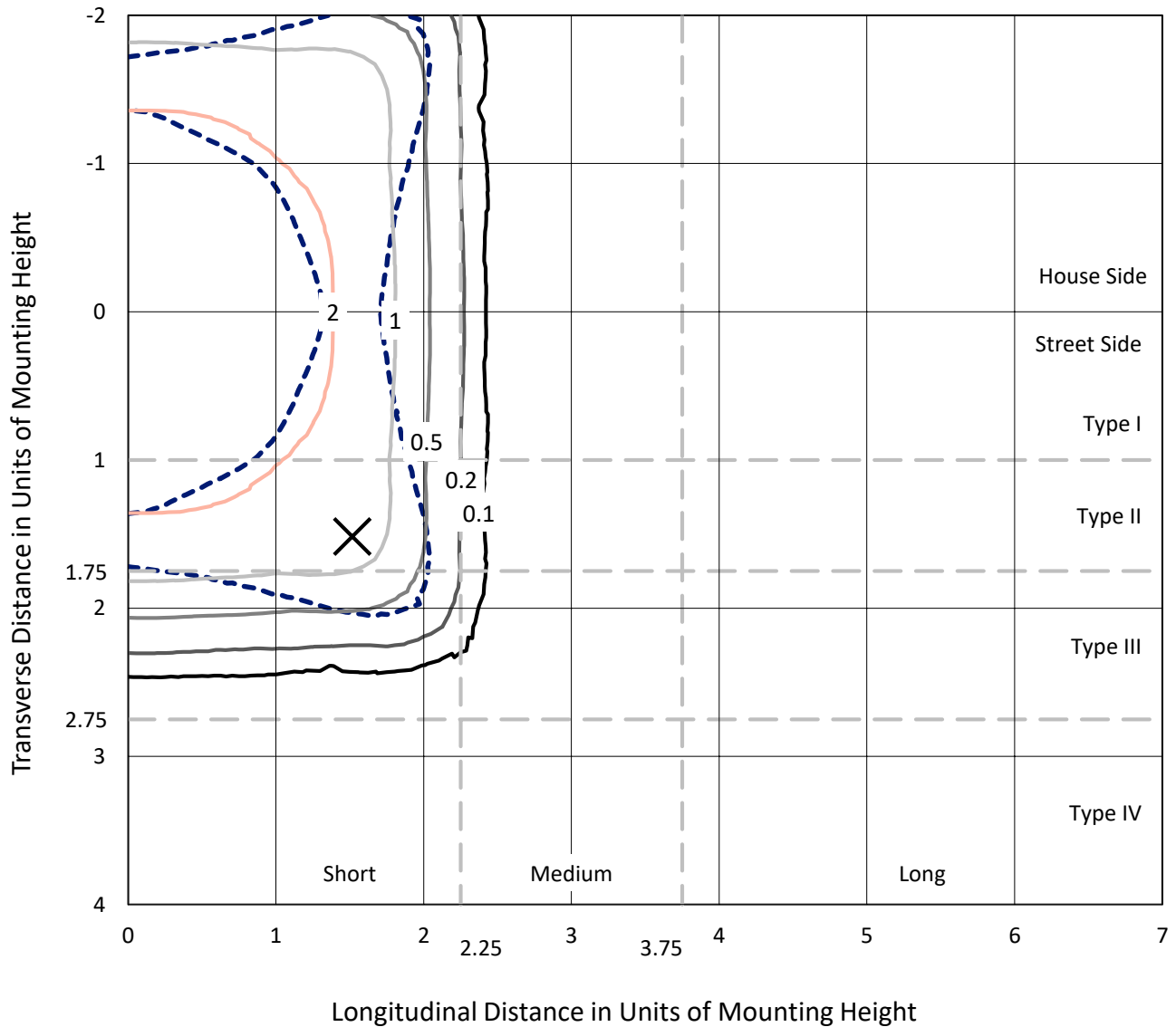


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

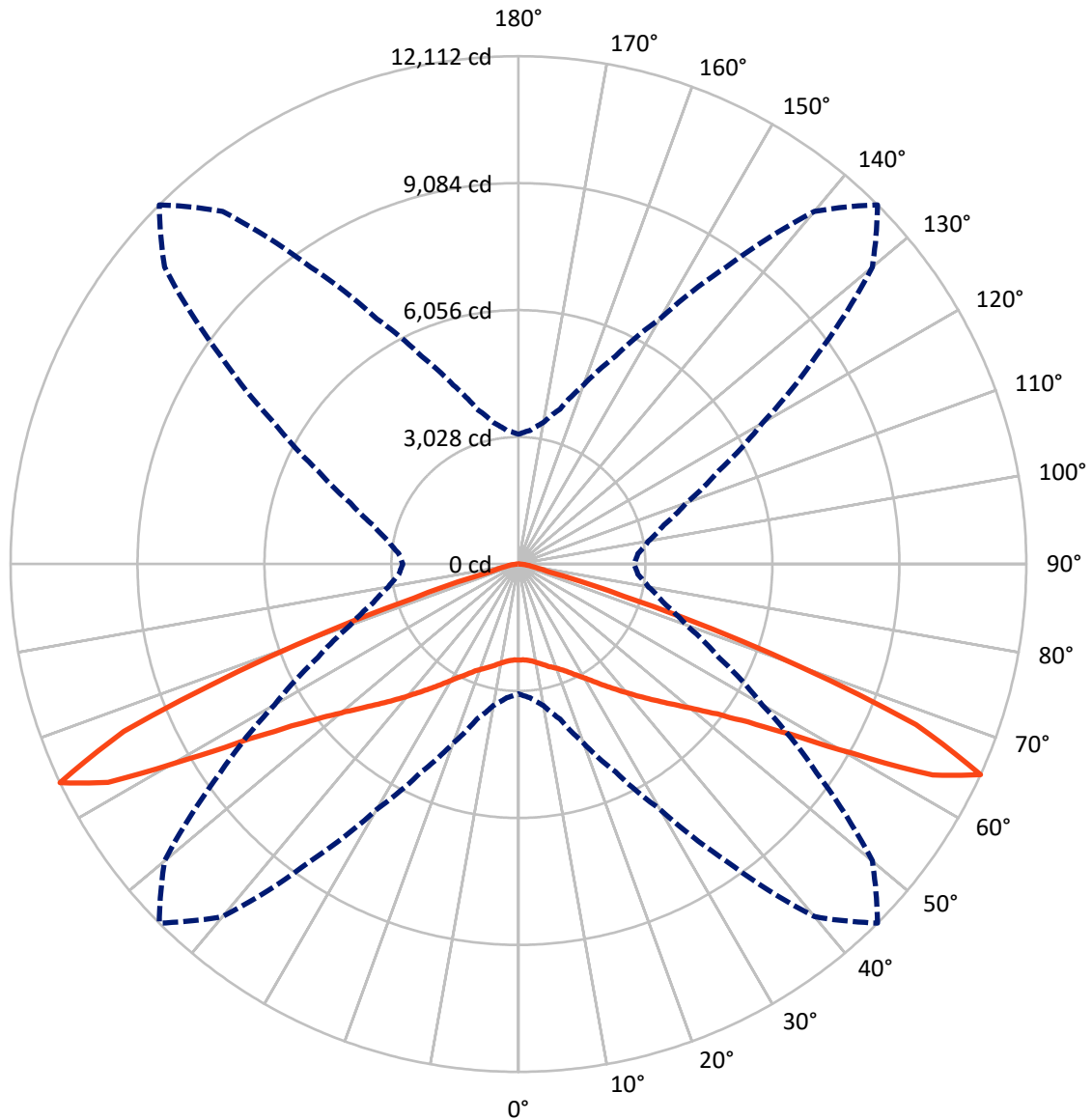


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10116.0	0.0	10116.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10116.0	0.0	10116.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20232.0	0.0	20232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.1
10°-20°	715.6	3.5
20°-30°	1338.1	6.6
30°-40°	2263.0	11.2
40°-50°	3700.3	18.3
50°-60°	5884.1	29.1
60°-70°	5318.8	26.3
70°-80°	673.1	3.3
80°-90°	115.8	0.6
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°	20232.0	100.0
0°-180°	20232.0	100.0



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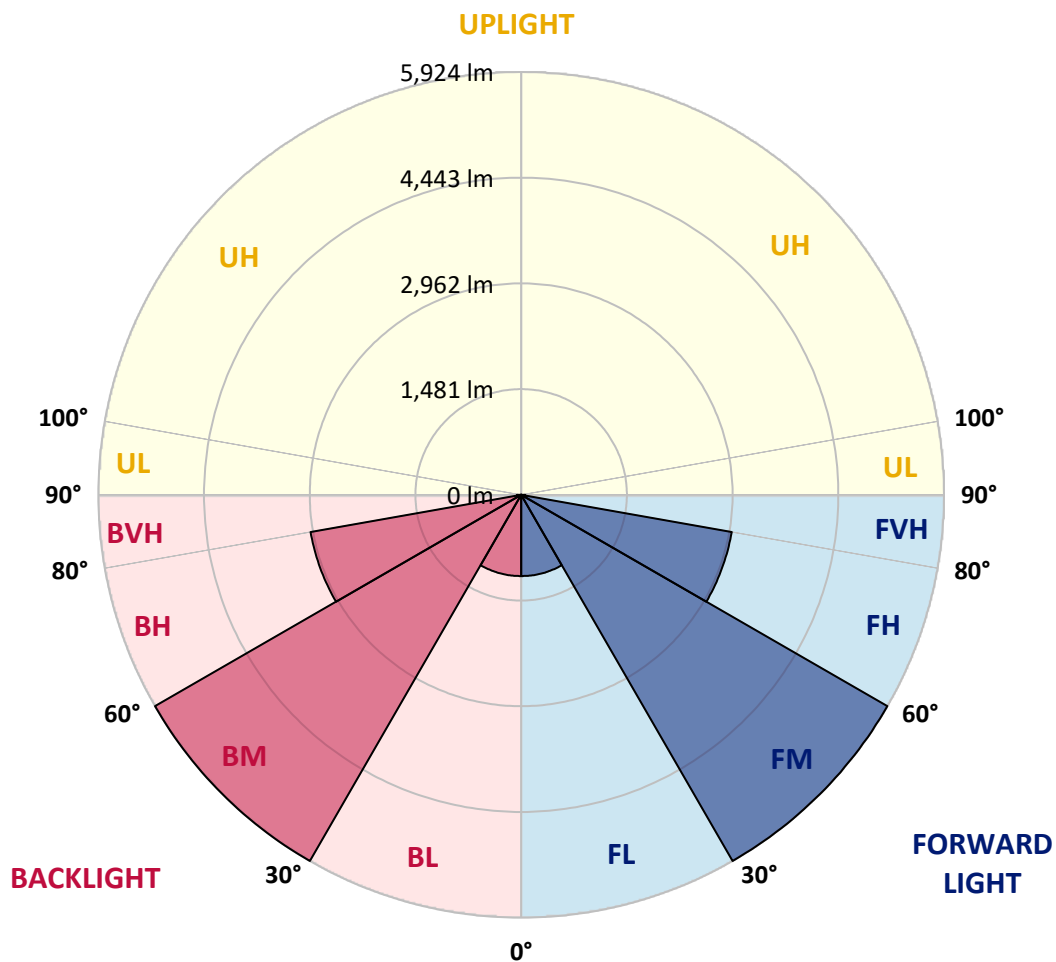
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1138.4	5.6			
FM	(30°-60°)	5923.7	29.3			
FH	(60°-80°)	2996.0	14.8			G2/5000
FVH	(80°-90°)	57.9	0.3			G1/100
BL	(0°-30°)	1138.4	5.6	B3/2500		
BM	(30°-60°)	5923.7	29.3	B4/8500		
BH	(60°-80°)	2996.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	57.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3
2.5°	2291.2	2293.1	2294.9	2293.1	2294.9	2292.1	2290.2	2293.1	2290.2	2287.4	2289.3
5°	2311.1	2312.0	2312.0	2309.2	2312.0	2310.1	2307.3	2311.1	2308.2	2305.4	2307.3
7.5°	2344.2	2348.0	2345.2	2342.3	2344.2	2342.3	2340.4	2341.4	2340.4	2337.6	2338.5
10°	2388.8	2391.6	2389.7	2388.8	2390.6	2389.7	2387.8	2386.9	2387.8	2385.0	2385.0
12.5°	2442.8	2441.8	2440.9	2441.8	2444.7	2444.7	2443.7	2444.7	2446.6	2447.5	2445.6
15°	2495.8	2497.7	2497.7	2497.7	2503.4	2508.1	2511.0	2512.9	2516.7	2517.6	2513.8
17.5°	2562.2	2562.2	2561.2	2562.2	2567.8	2575.4	2578.3	2582.1	2585.8	2588.7	2583.9
20°	2636.1	2638.0	2638.0	2639.9	2647.4	2656.0	2656.0	2657.9	2656.0	2657.9	2655.0
22.5°	2726.1	2731.8	2731.8	2732.7	2740.3	2750.7	2747.9	2750.7	2746.0	2749.8	2746.0
25°	2843.6	2852.1	2850.2	2850.2	2855.9	2862.5	2863.5	2869.2	2868.2	2872.9	2870.1
27.5°	2976.2	2989.5	2993.3	2992.3	2996.1	3002.8	3004.7	3011.3	3007.5	3011.3	3009.4
30°	3135.4	3141.1	3148.7	3151.5	3156.3	3162.9	3162.9	3163.8	3159.1	3164.8	3167.6
32.5°	3300.3	3310.7	3318.3	3335.3	3343.9	3348.6	3347.7	3349.6	3344.8	3352.4	3358.1
35°	3518.2	3525.8	3538.1	3551.4	3562.8	3561.8	3559.0	3559.9	3559.9	3566.5	3572.2
37.5°	3780.7	3782.6	3798.7	3817.6	3823.3	3817.6	3800.6	3796.8	3788.3	3796.8	3806.3
40°	4058.3	4065.0	4097.2	4109.5	4112.3	4101.9	4077.3	4063.1	4044.1	4054.5	4067.8
42.5°	4349.2	4362.5	4391.9	4413.7	4423.1	4416.5	4382.4	4360.6	4336.0	4341.6	4354.9
45°	4671.4	4687.5	4729.2	4750.0	4768.0	4757.6	4724.4	4691.3	4652.4	4655.3	4676.1
47.5°	5031.4	5047.6	5101.6	5136.6	5146.1	5144.2	5107.3	5061.8	5008.7	5006.8	5024.8
50°	5435.1	5451.2	5518.5	5572.5	5600.0	5597.1	5553.5	5489.1	5424.7	5425.6	5448.4
52.5°	5829.3	5849.2	5919.3	6012.2	6066.2	6105.0	6078.5	6017.8	5939.2	5941.1	5961.9
55°	6198.8	6232.0	6312.5	6438.5	6539.0	6648.0	6679.2	6677.3	6630.0	6643.2	6664.1
57.5°	6377.9	6427.2	6551.3	6750.3	6955.0	7176.7	7364.3	7504.5	7564.2	7654.2	7633.4
60°	6038.7	6117.3	6300.2	6593.0	6997.6	7460.0	7955.6	8439.8	8852.9	9164.6	8985.5
62.5°	4944.3	5046.6	5268.3	5643.6	6255.7	6995.7	7944.2	9088.8	10335.8	11088.1	10550.9
65°	3093.7	3199.8	3425.4	3827.1	4543.5	5463.5	6750.3	8647.3	10977.3	12111.5	11018.0
67.5°	1206.2	1264.0	1386.3	1643.0	2181.2	2999.9	4291.4	6444.2	9231.0	10224.9	9059.4
70°	604.5	610.2	633.0	680.3	795.9	1033.8	1572.9	2987.6	5293.9	6394.0	5103.5
72.5°	436.8	437.8	449.1	470.0	506.9	560.0	662.3	914.4	1721.7	2631.3	1613.7
75°	334.5	338.3	344.9	356.3	376.2	402.7	439.7	526.8	652.9	757.1	636.7
77.5°	257.7	265.3	270.0	280.5	292.8	310.8	321.2	354.4	412.2	434.0	427.3
80°	196.1	202.8	213.2	221.7	230.3	238.8	235.0	250.2	280.5	298.5	289.0
82.5°	125.1	132.7	163.0	170.6	174.3	180.0	173.4	174.3	187.6	199.0	187.6
85°	80.5	85.3	103.3	112.8	113.7	117.5	114.7	108.0	108.0	98.5	110.9
87.5°	37.0	37.9	46.4	55.0	56.9	51.2	50.2	48.3	38.8	37.0	39.8
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°	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3
2.5°	2288.3	2290.2	2291.2	2294.0	2294.9	2294.9	2295.9	2297.8
5°	2306.3	2309.2	2310.1	2313.9	2314.8	2313.9	2315.8	2316.7
7.5°	2338.5	2343.3	2345.2	2349.0	2346.1	2349.9	2350.9	2350.9
10°	2385.9	2390.6	2391.6	2395.4	2393.5	2395.4	2395.4	2393.5
12.5°	2448.4	2449.4	2446.6	2449.4	2445.6	2447.5	2444.7	2442.8
15°	2517.6	2514.8	2508.1	2508.1	2502.5	2503.4	2502.5	2501.5
17.5°	2584.9	2579.2	2574.5	2572.6	2567.8	2566.9	2564.0	2564.0
20°	2658.8	2656.0	2653.1	2649.3	2644.6	2639.9	2638.9	2640.8
22.5°	2747.9	2746.9	2746.9	2745.0	2738.4	2733.7	2730.8	2730.8
25°	2867.3	2858.7	2858.7	2857.8	2854.9	2852.1	2846.4	2849.3
27.5°	3001.8	2997.1	3000.9	2999.9	2997.1	2997.1	2993.3	2993.3
30°	3167.6	3165.7	3171.4	3166.7	3157.2	3156.3	3152.5	3147.7
32.5°	3359.0	3357.1	3365.7	3360.0	3344.8	3336.3	3328.7	3324.9
35°	3572.2	3573.2	3583.6	3579.8	3562.8	3557.1	3543.8	3541.9
37.5°	3805.3	3820.5	3838.5	3842.3	3828.1	3824.3	3810.1	3802.5
40°	4079.2	4099.1	4126.5	4133.2	4118.0	4115.2	4095.3	4084.9
42.5°	4371.0	4405.1	4439.2	4444.9	4429.8	4414.6	4395.6	4388.1
45°	4697.0	4737.7	4782.2	4793.6	4770.9	4752.9	4728.2	4728.2
47.5°	5062.7	5113.9	5164.1	5195.4	5174.5	5155.6	5126.2	5107.3
50°	5494.8	5564.9	5630.3	5662.5	5629.3	5593.3	5542.2	5525.1
52.5°	6036.8	6112.6	6169.4	6152.4	6101.2	6051.0	5995.1	5972.4
55°	6728.5	6754.1	6754.1	6689.6	6587.3	6503.0	6414.9	6385.5
57.5°	7593.6	7495.1	7343.5	7151.1	6909.5	6699.1	6557.0	6489.7
60°	8610.3	8136.5	7601.2	7075.3	6643.2	6286.9	6075.6	5979.0
62.5°	9287.8	8048.4	6975.8	6131.5	5510.0	5080.7	4788.9	4675.2
65°	8680.4	6712.4	5275.9	4265.8	3588.3	3151.5	2862.5	2756.4
67.5°	6358.0	4206.1	2809.5	2013.5	1475.3	1176.8	1058.4	1009.1
70°	2854.0	1481.0	907.7	708.8	611.2	560.9	539.2	531.6
72.5°	860.4	622.5	524.9	473.8	434.9	410.3	392.3	390.4
75°	519.3	432.1	383.8	353.4	328.8	308.9	299.4	296.6
77.5°	362.9	317.4	294.7	272.9	253.9	238.8	230.3	223.6
80°	254.9	233.1	222.7	210.4	198.0	183.8	171.5	165.8
82.5°	170.6	165.8	165.8	158.2	147.8	134.6	109.9	104.2
85°	109.9	109.0	110.9	108.0	100.4	86.2	71.1	67.3
87.5°	51.2	52.1	57.8	56.9	55.0	45.5	36.0	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)