

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: P190833

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190833
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20683 lumens
Efficiency: N/A
Efficacy: 127.7 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

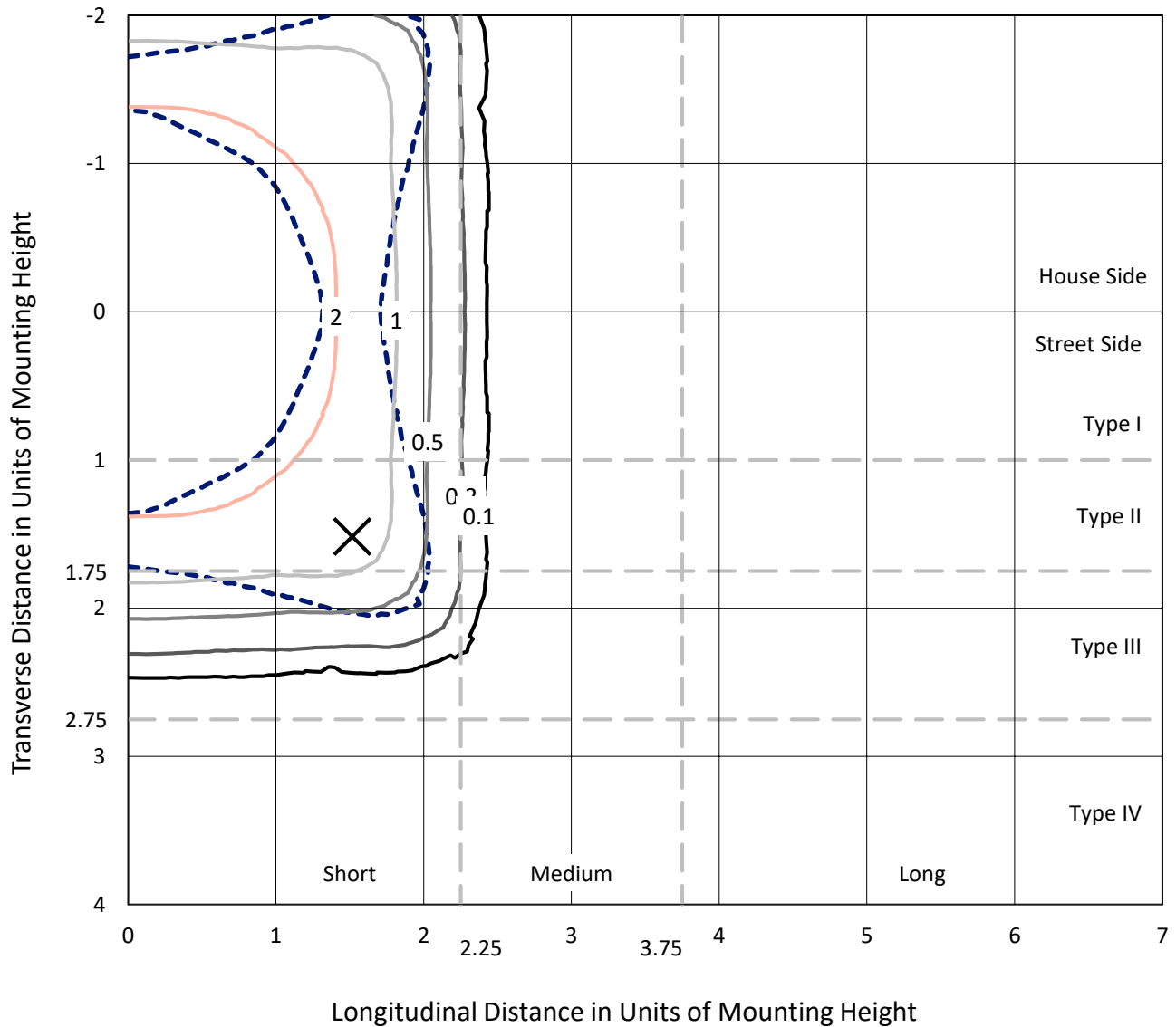
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190833
 CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-600

Iso-Footcandle Lines of Horizontal Illumination

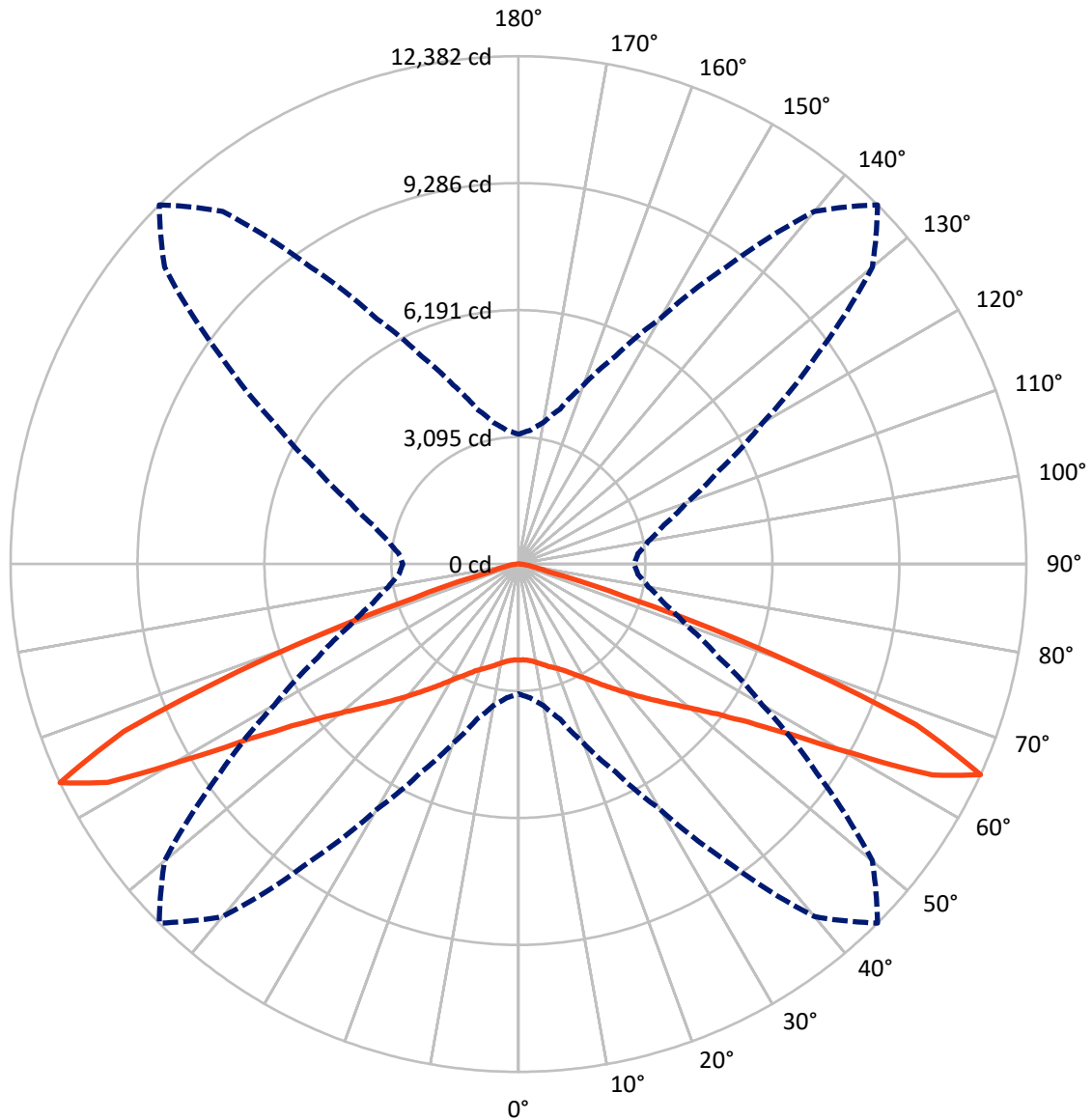
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P190833
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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	10341.5	0.0	10341.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10341.5	0.0	10341.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20683.0	0.0	20683.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	1.1
10°-20°	731.6	3.5
20°-30°	1367.9	6.6
30°-40°	2313.5	11.2
40°-50°	3782.8	18.3
50°-60°	6015.3	29.1
60°-70°	5437.4	26.3
70°-80°	688.1	3.3
80°-90°	118.4	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°	20683.0	100.0
0°-180°	20683.0	100.0



REPORT NUMBER: P190833

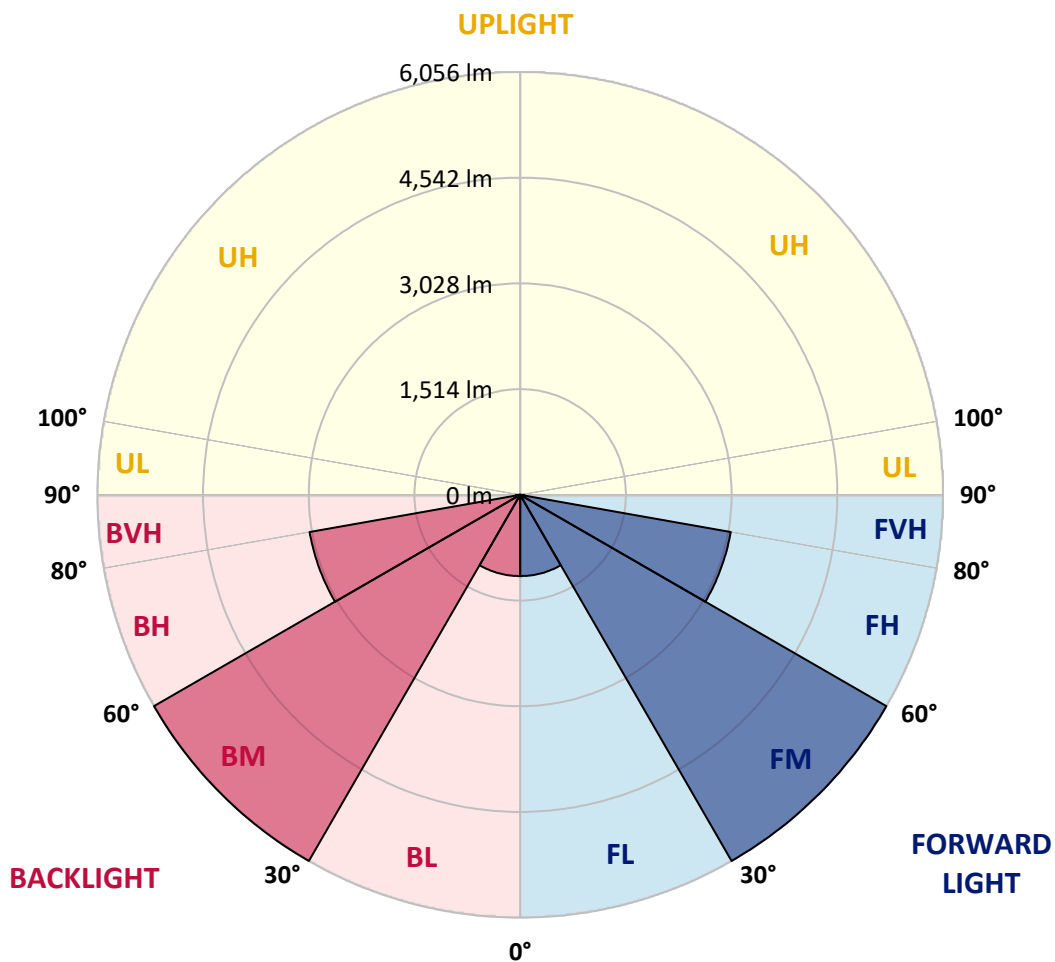
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.8	5.6			
FM	(30°-60°)	6055.8	29.3			
FH	(60°-80°)	3062.8	14.8			G2/5000
FVH	(80°-90°)	59.2	0.3			G1/100
BL	(0°-30°)	1163.8	5.6	B3/2500		
BM	(30°-60°)	6055.8	29.3	B4/8500		
BH	(60°-80°)	3062.8	14.8	B4/5000		G2/5000
BVH	(80°-90°)	59.2	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





REPORT NUMBER: P190833

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3
2.5°	2342.3	2344.2	2346.1	2344.2	2346.1	2343.2	2341.2	2344.2	2341.2	2338.4	2340.3
5°	2362.6	2363.5	2363.5	2360.7	2363.5	2361.6	2358.7	2362.6	2359.6	2356.8	2358.7
7.5°	2396.5	2400.4	2397.5	2394.5	2396.5	2394.5	2392.6	2393.6	2392.6	2389.7	2390.6
10°	2442.0	2445.0	2443.0	2442.0	2443.9	2443.0	2441.1	2440.0	2441.1	2438.1	2438.1
12.5°	2497.2	2496.2	2495.3	2496.2	2499.2	2499.2	2498.1	2499.2	2501.1	2502.0	2500.1
15°	2551.4	2553.4	2553.4	2553.4	2559.2	2564.0	2567.0	2568.9	2572.8	2573.7	2569.9
17.5°	2619.3	2619.3	2618.3	2619.3	2625.1	2632.9	2635.7	2639.6	2643.5	2646.4	2641.6
20°	2694.9	2696.8	2696.8	2698.7	2706.4	2715.2	2715.2	2717.1	2715.2	2717.1	2714.2
22.5°	2786.8	2792.7	2792.7	2793.7	2801.4	2812.0	2809.1	2812.0	2807.2	2811.1	2807.2
25°	2906.9	2915.7	2913.8	2913.8	2919.6	2926.4	2927.3	2933.1	2932.2	2937.0	2934.1
27.5°	3042.6	3056.2	3060.1	3059.0	3062.9	3069.7	3071.6	3078.5	3074.6	3078.5	3076.5
30°	3205.3	3211.1	3218.9	3221.8	3226.6	3233.4	3233.4	3234.4	3229.6	3235.4	3238.3
32.5°	3373.9	3384.5	3392.3	3409.7	3418.4	3423.3	3422.3	3424.2	3419.4	3427.1	3432.9
35°	3596.7	3604.4	3616.9	3630.6	3642.2	3641.2	3638.3	3639.2	3639.2	3646.1	3651.8
37.5°	3865.0	3867.0	3883.4	3902.8	3908.6	3902.8	3885.3	3881.5	3872.7	3881.5	3891.1
40°	4148.8	4155.5	4188.5	4201.1	4204.0	4193.4	4168.2	4153.6	4134.3	4144.9	4158.5
42.5°	4446.2	4459.8	4489.7	4512.0	4521.7	4515.0	4480.1	4457.8	4432.7	4438.4	4452.0
45°	4775.5	4792.0	4834.6	4855.9	4874.4	4863.7	4829.8	4795.9	4756.1	4759.1	4780.4
47.5°	5143.6	5160.1	5215.3	5251.1	5260.8	5258.9	5221.1	5174.6	5120.4	5118.4	5136.8
50°	5556.3	5572.7	5641.5	5696.7	5724.8	5721.9	5677.4	5611.5	5545.6	5546.5	5569.9
52.5°	5959.2	5979.6	6051.3	6146.2	6201.4	6241.1	6214.0	6152.0	6071.6	6073.6	6094.8
55°	6337.0	6370.9	6453.3	6582.1	6684.8	6796.2	6828.1	6826.2	6777.8	6791.3	6812.6
57.5°	6520.1	6570.4	6697.4	6900.8	7110.0	7336.7	7528.5	7671.8	7732.9	7824.9	7803.6
60°	6173.3	6253.7	6440.7	6740.0	7153.6	7626.3	8133.0	8627.9	9050.3	9368.9	9185.9
62.5°	5054.5	5159.2	5385.7	5769.3	6395.2	7151.7	8121.3	9291.5	10566.2	11335.3	10786.1
65°	3162.7	3271.2	3501.8	3912.5	4644.7	5585.3	6900.8	8840.0	11222.0	12381.5	11263.6
67.5°	1233.1	1292.2	1417.2	1679.7	2229.8	3066.8	4387.1	6587.9	9436.7	10452.9	9261.4
70°	618.0	623.8	647.1	695.5	813.7	1056.8	1608.0	3054.2	5411.9	6536.6	5217.3
72.5°	446.5	447.5	459.1	480.5	518.2	572.4	677.1	934.8	1760.1	2690.0	1649.6
75°	342.0	345.9	352.6	364.2	384.5	411.6	449.5	538.6	667.4	774.0	650.9
77.5°	263.5	271.2	276.1	286.7	299.3	317.7	328.4	362.3	421.4	443.7	436.9
80°	200.5	207.2	218.0	226.7	235.4	244.1	240.2	255.7	286.7	305.1	295.4
82.5°	127.9	135.6	166.6	174.3	178.2	184.0	177.3	178.2	191.8	203.5	191.8
85°	82.3	87.2	105.6	115.3	116.2	120.1	117.2	110.5	110.5	100.8	113.3
87.5°	37.7	38.8	47.5	56.2	58.1	52.3	51.4	49.4	39.7	37.7	40.7
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: P190833

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3	2340.3
2.5°	2339.3	2341.2	2342.3	2345.1	2346.1	2346.1	2347.1	2349.0
5°	2357.7	2360.7	2361.6	2365.5	2366.5	2365.5	2367.4	2368.4
7.5°	2390.6	2395.5	2397.5	2401.3	2398.4	2402.3	2403.2	2403.2
10°	2439.1	2443.9	2445.0	2448.7	2446.9	2448.7	2448.7	2446.9
12.5°	2503.1	2504.0	2501.1	2504.0	2500.1	2502.0	2499.2	2497.2
15°	2573.7	2570.9	2564.0	2564.0	2558.3	2559.2	2558.3	2557.3
17.5°	2642.5	2636.8	2631.8	2629.9	2625.1	2624.1	2621.2	2621.2
20°	2718.1	2715.2	2712.3	2708.4	2703.6	2698.7	2697.7	2699.7
22.5°	2809.1	2808.2	2808.2	2806.3	2799.4	2794.6	2791.7	2791.7
25°	2931.2	2922.5	2922.5	2921.5	2918.6	2915.7	2909.9	2912.8
27.5°	3068.8	3063.8	3067.7	3066.8	3063.8	3063.8	3060.1	3060.1
30°	3238.3	3236.3	3242.1	3237.3	3227.6	3226.6	3222.7	3217.9
32.5°	3433.9	3432.0	3440.7	3434.9	3419.4	3410.7	3402.9	3399.1
35°	3651.8	3652.9	3663.5	3659.6	3642.2	3636.4	3622.8	3620.8
37.5°	3890.2	3905.6	3924.0	3927.9	3913.4	3909.5	3895.0	3887.2
40°	4170.1	4190.4	4218.5	4225.3	4209.9	4206.9	4186.5	4175.9
42.5°	4468.5	4503.3	4538.2	4544.0	4528.5	4513.1	4493.6	4485.8
45°	4801.6	4843.4	4888.9	4900.4	4877.2	4858.8	4833.6	4833.6
47.5°	5175.6	5227.9	5279.2	5311.2	5289.9	5270.5	5240.5	5221.1
50°	5617.3	5688.9	5755.8	5788.8	5754.8	5718.0	5665.7	5648.3
52.5°	6171.4	6248.9	6307.0	6289.5	6237.2	6185.9	6128.7	6105.5
55°	6878.5	6904.6	6904.6	6838.7	6734.2	6648.0	6557.8	6527.9
57.5°	7762.9	7662.1	7507.1	7310.5	7063.5	6848.5	6703.2	6634.3
60°	8802.3	8317.9	7770.6	7233.1	6791.3	6427.1	6211.1	6112.2
62.5°	9494.8	8227.9	7131.3	6268.2	5632.8	5194.0	4895.6	4779.4
65°	8874.0	6862.1	5393.5	4360.9	3668.3	3221.8	2926.4	2817.8
67.5°	6499.7	4299.9	2872.1	2058.4	1508.2	1203.1	1082.0	1031.6
70°	2917.7	1514.1	928.0	724.6	624.8	573.5	551.2	543.4
72.5°	879.5	636.4	536.6	484.4	444.6	419.4	401.0	399.1
75°	530.8	441.7	392.3	361.3	336.1	315.8	306.1	303.2
77.5°	371.0	324.5	301.3	279.0	259.6	244.1	235.4	228.6
80°	260.5	238.2	227.6	215.0	202.4	187.9	175.3	169.5
82.5°	174.3	169.5	169.5	161.7	151.1	137.6	112.3	106.6
85°	112.3	111.4	113.3	110.5	102.7	88.2	72.6	68.7
87.5°	52.3	53.3	59.1	58.1	56.2	46.5	36.8	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)