

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: P190861

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190861
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-03-LED-E1-5NQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21036 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

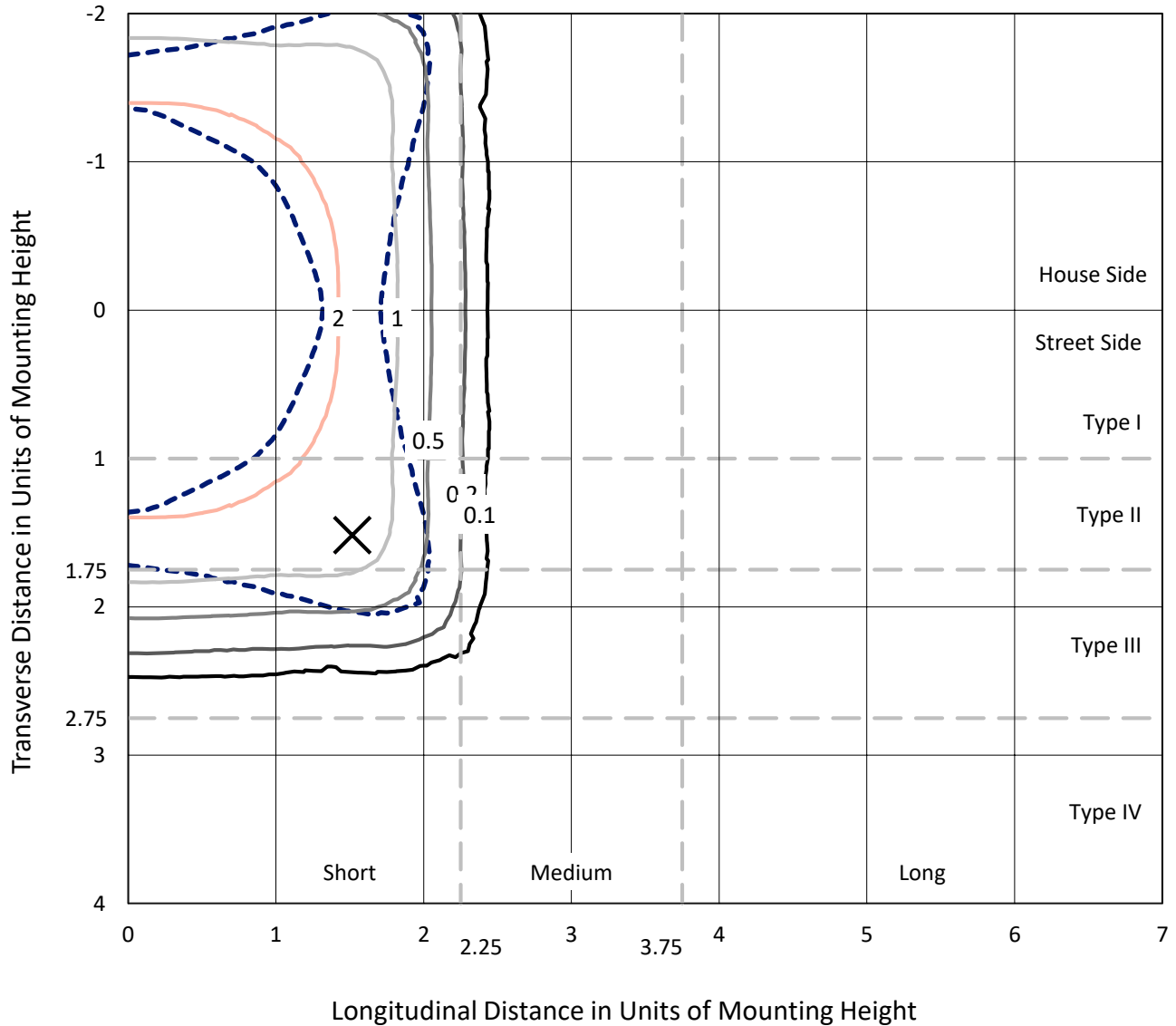
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

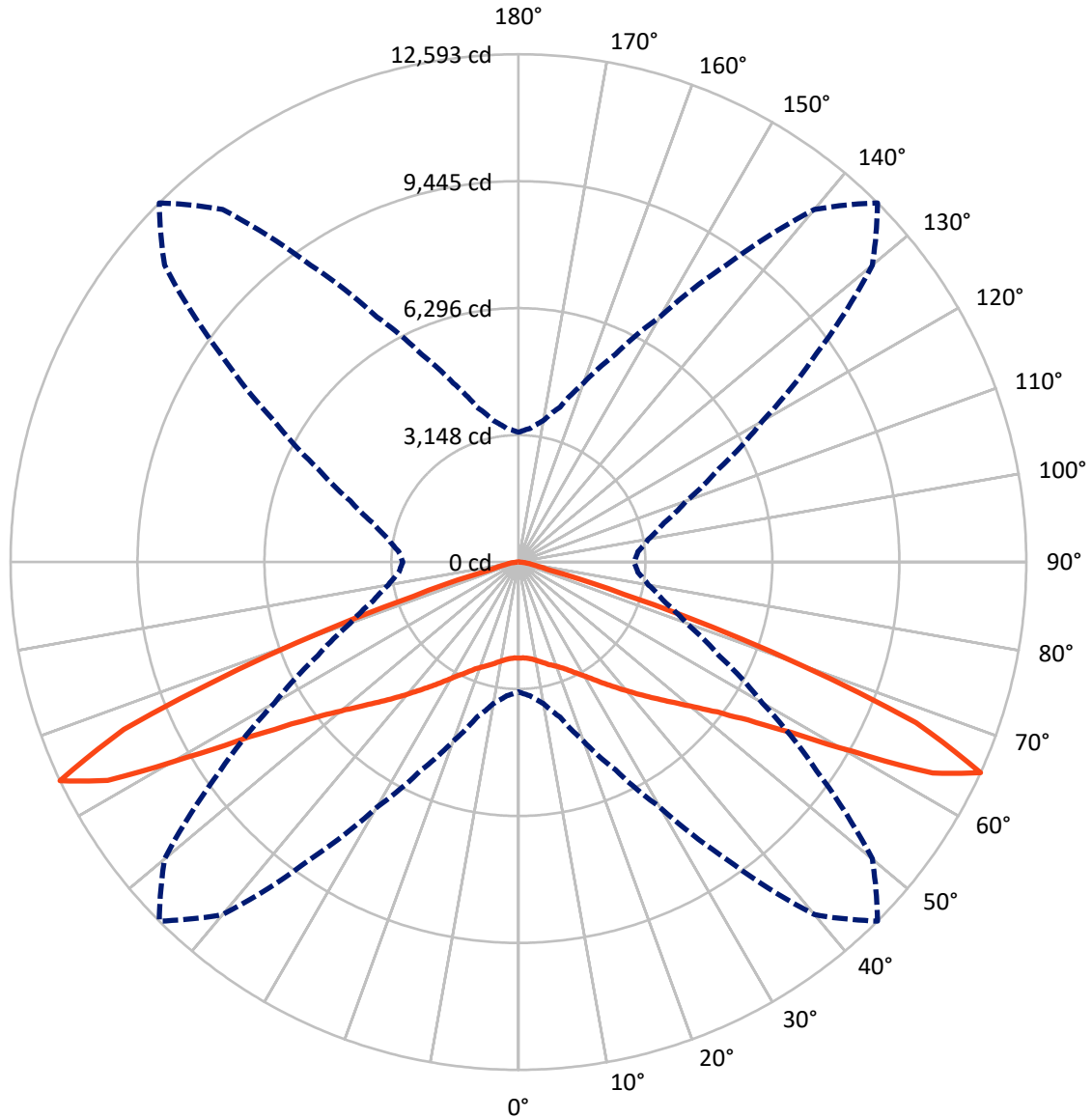
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	10518.0	0.0	10518.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10518.0	0.0	10518.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21036.0	0.0	21036.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	1.1
10°-20°	744.1	3.5
20°-30°	1391.2	6.6
30°-40°	2353.0	11.2
40°-50°	3847.4	18.3
50°-60°	6117.9	29.1
60°-70°	5530.2	26.3
70°-80°	699.9	3.3
80°-90°	120.4	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°	21036.0	100.0
0°-180°	21036.0	100.0



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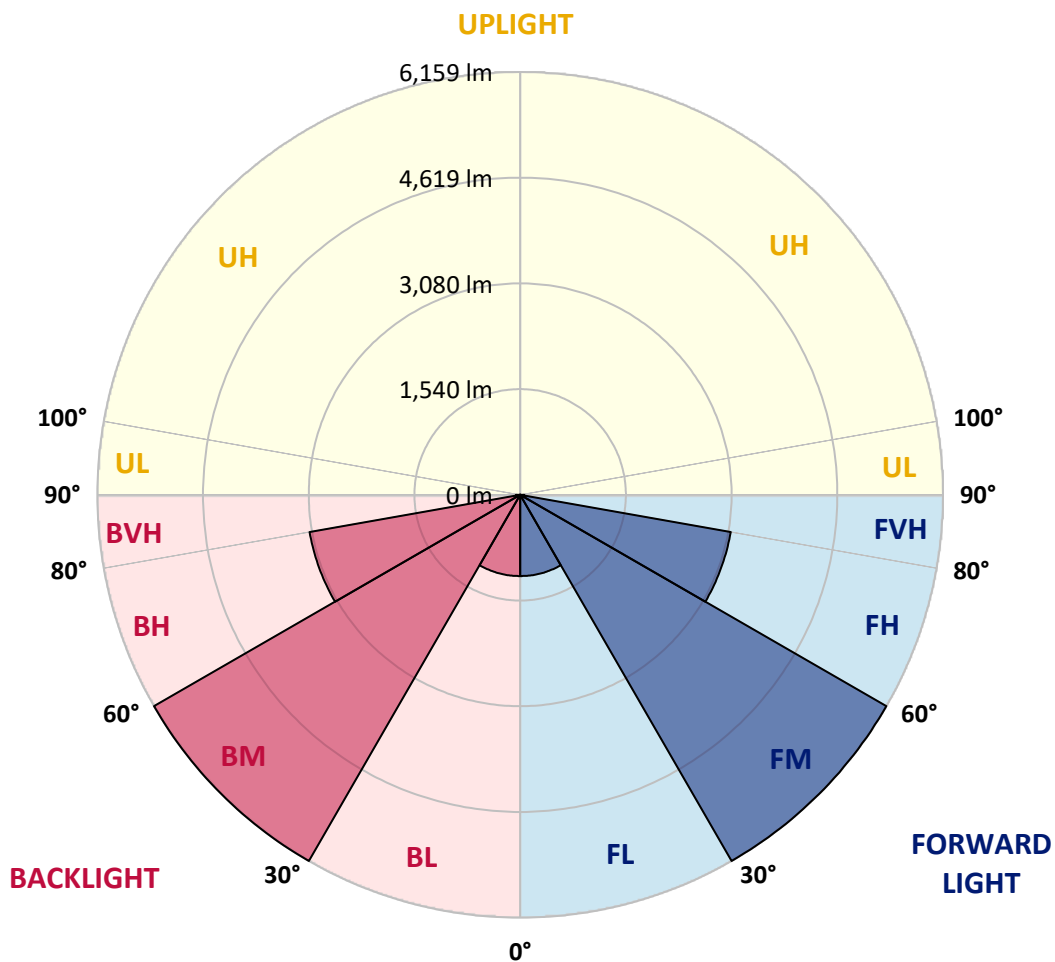
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.6	5.6			
FM	(30°-60°)	6159.1	29.3			
FH	(60°-80°)	3115.0	14.8			G2/5000
FVH	(80°-90°)	60.2	0.3			G1/100
BL	(0°-30°)	1183.6	5.6	B3/2500		
BM	(30°-60°)	6159.1	29.3	B4/8500		
BH	(60°-80°)	3115.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	60.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2
2.5°	2382.2	2384.2	2386.1	2384.2	2386.1	2383.2	2381.2	2384.2	2381.2	2378.3	2380.2
5°	2402.9	2403.8	2403.8	2401.0	2403.8	2401.9	2398.9	2402.9	2399.9	2397.0	2398.9
7.5°	2437.4	2441.3	2438.3	2435.4	2437.4	2435.4	2433.4	2434.4	2433.4	2430.4	2431.5
10°	2483.7	2486.6	2484.6	2483.7	2485.7	2484.6	2482.7	2481.7	2482.7	2479.7	2479.7
12.5°	2539.8	2538.9	2537.8	2538.9	2541.8	2541.8	2540.8	2541.8	2543.8	2544.8	2542.7
15°	2595.0	2597.0	2597.0	2597.0	2602.9	2607.8	2610.8	2612.7	2616.7	2617.6	2613.7
17.5°	2664.0	2664.0	2662.9	2664.0	2669.9	2677.8	2680.7	2684.6	2688.6	2691.6	2686.6
20°	2740.8	2742.7	2742.7	2744.8	2752.7	2761.5	2761.5	2763.5	2761.5	2763.5	2760.5
22.5°	2834.4	2840.3	2840.3	2841.3	2849.2	2860.1	2857.1	2860.1	2855.1	2859.0	2855.1
25°	2956.5	2965.4	2963.5	2963.5	2969.4	2976.3	2977.3	2983.1	2982.2	2987.1	2984.2
27.5°	3094.5	3108.3	3112.2	3111.2	3115.2	3122.0	3124.1	3130.9	3127.1	3130.9	3129.0
30°	3260.0	3265.9	3273.9	3276.7	3281.7	3288.6	3288.6	3289.6	3284.6	3290.5	3293.5
32.5°	3431.4	3442.2	3450.1	3467.9	3476.7	3481.7	3480.7	3482.6	3477.7	3485.6	3491.5
35°	3658.1	3665.9	3678.7	3692.5	3704.3	3703.4	3700.4	3701.3	3701.3	3708.3	3714.2
37.5°	3930.9	3932.9	3949.6	3969.4	3975.3	3969.4	3951.7	3947.7	3938.8	3947.7	3957.5
40°	4219.6	4226.5	4260.0	4272.8	4275.7	4264.9	4239.3	4224.5	4204.8	4215.7	4229.4
42.5°	4522.1	4535.9	4566.4	4589.1	4598.9	4592.0	4556.5	4533.8	4508.2	4514.2	4528.0
45°	4857.0	4873.7	4917.1	4938.8	4957.5	4946.7	4912.2	4877.7	4837.3	4840.3	4862.0
47.5°	5231.4	5248.1	5304.3	5340.7	5350.5	5348.6	5310.2	5262.9	5207.7	5205.8	5224.5
50°	5651.1	5667.9	5737.7	5793.9	5822.5	5819.6	5774.3	5707.2	5640.2	5641.3	5664.9
52.5°	6060.9	6081.6	6154.5	6251.0	6307.2	6347.6	6320.0	6257.0	6175.2	6177.2	6198.9
55°	6445.1	6479.6	6563.4	6694.4	6798.8	6912.1	6944.6	6942.7	6893.4	6907.2	6928.9
57.5°	6631.4	6682.5	6811.6	7018.6	7231.3	7461.9	7656.9	7802.8	7864.9	7958.4	7936.8
60°	6278.7	6360.4	6550.6	6855.0	7275.6	7756.4	8271.7	8775.2	9204.7	9528.8	9342.6
62.5°	5140.7	5247.1	5477.7	5867.9	6504.2	7273.7	8259.9	9450.0	10746.5	11528.8	10970.1
65°	3216.7	3327.0	3561.5	3979.2	4724.0	5680.7	7018.6	8990.9	11413.5	12592.7	11455.8
67.5°	1254.1	1314.3	1441.3	1708.3	2267.9	3119.1	4461.9	6700.3	9597.7	10631.2	9419.4
70°	628.6	634.4	658.1	707.4	827.6	1074.8	1635.4	3106.3	5504.3	6648.1	5306.3
72.5°	454.2	455.1	467.0	488.7	527.1	582.3	688.7	950.7	1790.1	2735.9	1677.7
75°	347.8	351.7	358.6	370.4	391.1	418.7	457.2	547.8	678.8	787.2	662.1
77.5°	268.0	275.9	280.8	291.6	304.4	323.2	334.0	368.5	428.5	451.2	444.4
80°	204.0	210.8	221.7	230.6	239.4	248.3	244.3	260.1	291.6	310.4	300.4
82.5°	130.0	137.9	169.5	177.4	181.3	187.2	180.2	181.3	195.1	206.8	195.1
85°	83.8	88.7	107.4	117.2	118.3	122.1	119.2	112.3	112.3	102.5	115.3
87.5°	38.5	39.4	48.3	57.2	59.1	53.2	52.2	50.2	40.4	38.5	41.3
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°	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2	2380.2
2.5°	2379.3	2381.2	2382.2	2385.1	2386.1	2386.1	2387.2	2389.1
5°	2398.0	2401.0	2401.9	2405.9	2406.8	2405.9	2407.8	2408.8
7.5°	2431.5	2436.4	2438.3	2442.3	2439.3	2443.3	2444.2	2444.2
10°	2480.8	2485.7	2486.6	2490.6	2488.6	2490.6	2490.6	2488.6
12.5°	2545.7	2546.7	2543.8	2546.7	2542.7	2544.8	2541.8	2539.8
15°	2617.6	2614.7	2607.8	2607.8	2601.9	2602.9	2601.9	2601.0
17.5°	2687.6	2681.7	2676.8	2674.8	2669.9	2668.9	2665.9	2665.9
20°	2764.4	2761.5	2758.6	2754.6	2749.7	2744.8	2743.8	2745.7
22.5°	2857.1	2856.1	2856.1	2854.1	2847.2	2842.3	2839.3	2839.3
25°	2981.2	2972.3	2972.3	2971.4	2968.4	2965.4	2959.5	2962.5
27.5°	3121.1	3116.2	3120.1	3119.1	3116.2	3116.2	3112.2	3112.2
30°	3293.5	3291.5	3297.5	3292.5	3282.6	3281.7	3277.7	3272.8
32.5°	3492.6	3490.5	3499.4	3493.5	3477.7	3468.8	3460.9	3457.1
35°	3714.2	3715.2	3726.0	3722.1	3704.3	3698.4	3684.7	3682.6
37.5°	3956.6	3972.3	3991.0	3994.9	3980.2	3976.2	3961.5	3953.6
40°	4241.3	4261.9	4290.6	4297.4	4281.7	4278.7	4258.0	4247.2
42.5°	4544.7	4580.2	4615.7	4621.6	4605.7	4590.0	4570.3	4562.5
45°	4883.6	4926.0	4972.3	4984.1	4960.5	4941.8	4916.1	4916.1
47.5°	5263.9	5317.1	5369.3	5401.8	5380.1	5360.5	5329.9	5310.2
50°	5713.2	5786.0	5854.0	5887.5	5853.0	5815.6	5762.4	5744.7
52.5°	6276.7	6355.5	6414.6	6396.8	6343.6	6291.5	6233.4	6209.7
55°	6995.9	7022.5	7022.5	6955.5	6849.1	6761.4	6669.7	6639.3
57.5°	7895.3	7792.8	7635.3	7435.2	7184.1	6965.4	6817.6	6747.6
60°	8952.5	8459.9	7903.2	7356.4	6907.2	6536.8	6317.0	6216.6
62.5°	9656.9	8368.2	7253.0	6375.2	5728.9	5282.6	4979.2	4861.0
65°	9025.4	6979.1	5485.6	4435.3	3730.9	3276.7	2976.3	2865.9
67.5°	6610.6	4373.3	2921.1	2093.6	1533.9	1223.7	1100.5	1049.2
70°	2967.4	1539.8	943.8	736.9	635.5	583.2	560.6	552.7
72.5°	894.6	647.3	545.8	492.6	452.2	426.6	407.9	405.9
75°	539.9	449.3	399.1	367.4	341.9	321.2	311.3	308.3
77.5°	377.4	330.0	306.4	283.8	264.0	248.3	239.4	232.5
80°	265.0	242.3	231.5	218.7	205.9	191.1	178.3	172.4
82.5°	177.4	172.4	172.4	164.5	153.6	139.9	114.3	108.3
85°	114.3	113.3	115.3	112.3	104.4	89.6	73.9	70.0
87.5°	53.2	54.2	60.0	59.1	57.2	47.3	37.4	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)