

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: P192574

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192574
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-06-LED-E1-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 23401.2 lumens
Efficiency: N/A
Efficacy: 121.2 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): 193
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

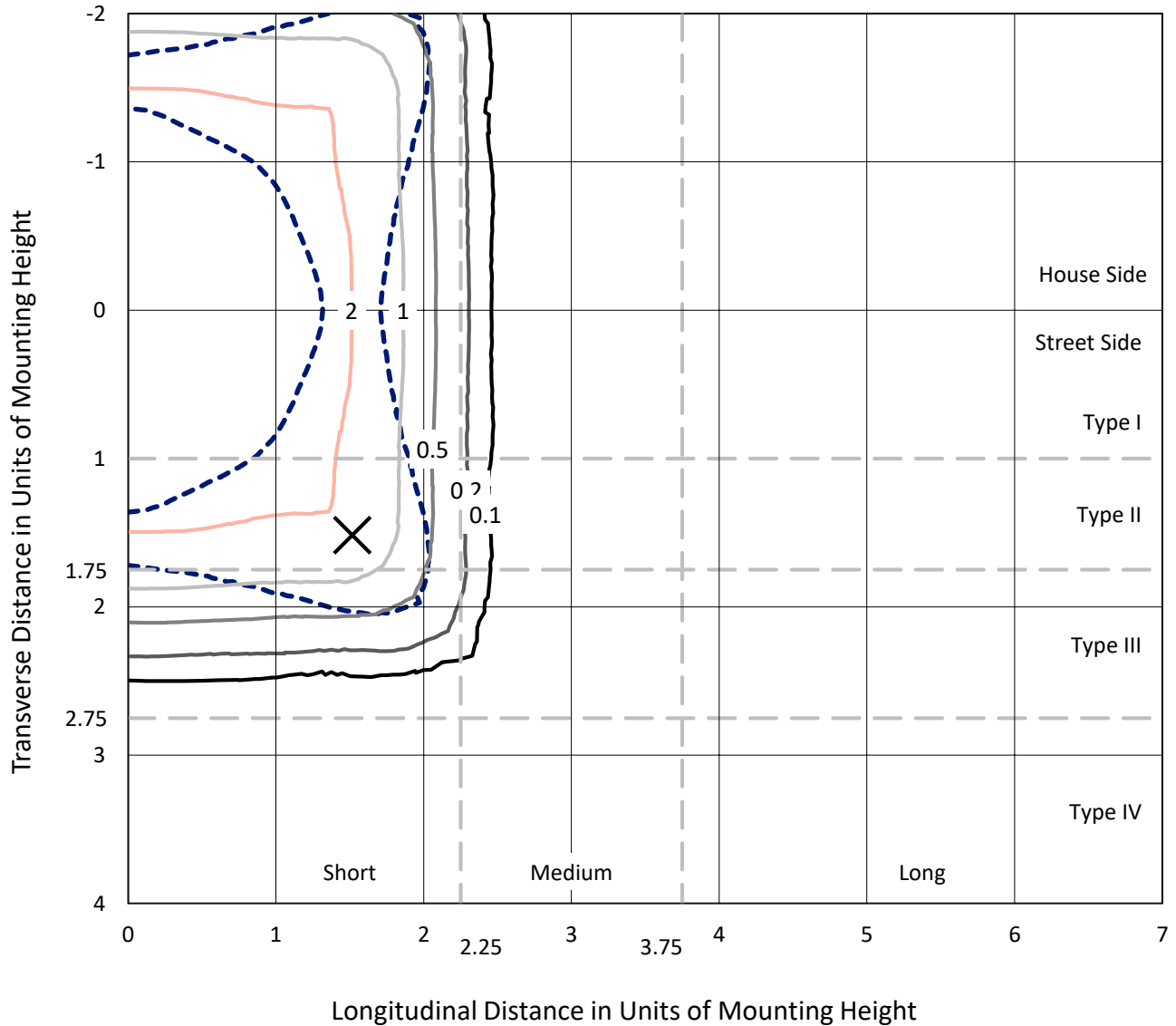


REPORT NUMBER: P192574

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

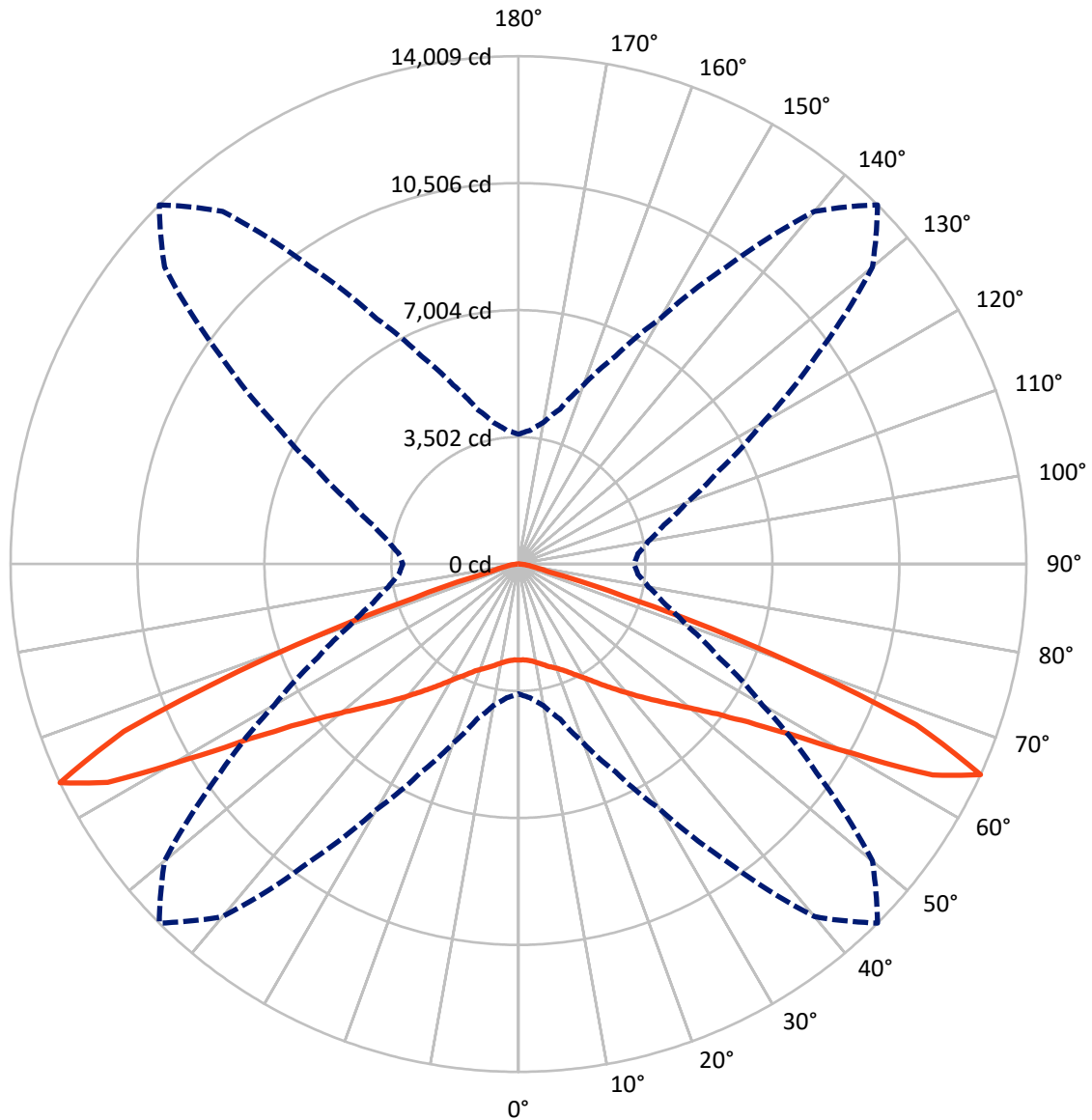


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192574

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7030-600

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	11700.6	0.0	11700.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11700.6	0.0	11700.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23401.2	0.0	23401.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	1.1
10°-20°	827.7	3.5
20°-30°	1547.7	6.6
30°-40°	2617.5	11.2
40°-50°	4279.9	18.3
50°-60°	6805.8	29.1
60°-70°	6152.0	26.3
70°-80°	778.6	3.3
80°-90°	133.9	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°	23401.2	100.0
0°-180°	23401.2	100.0



REPORT NUMBER: P192574

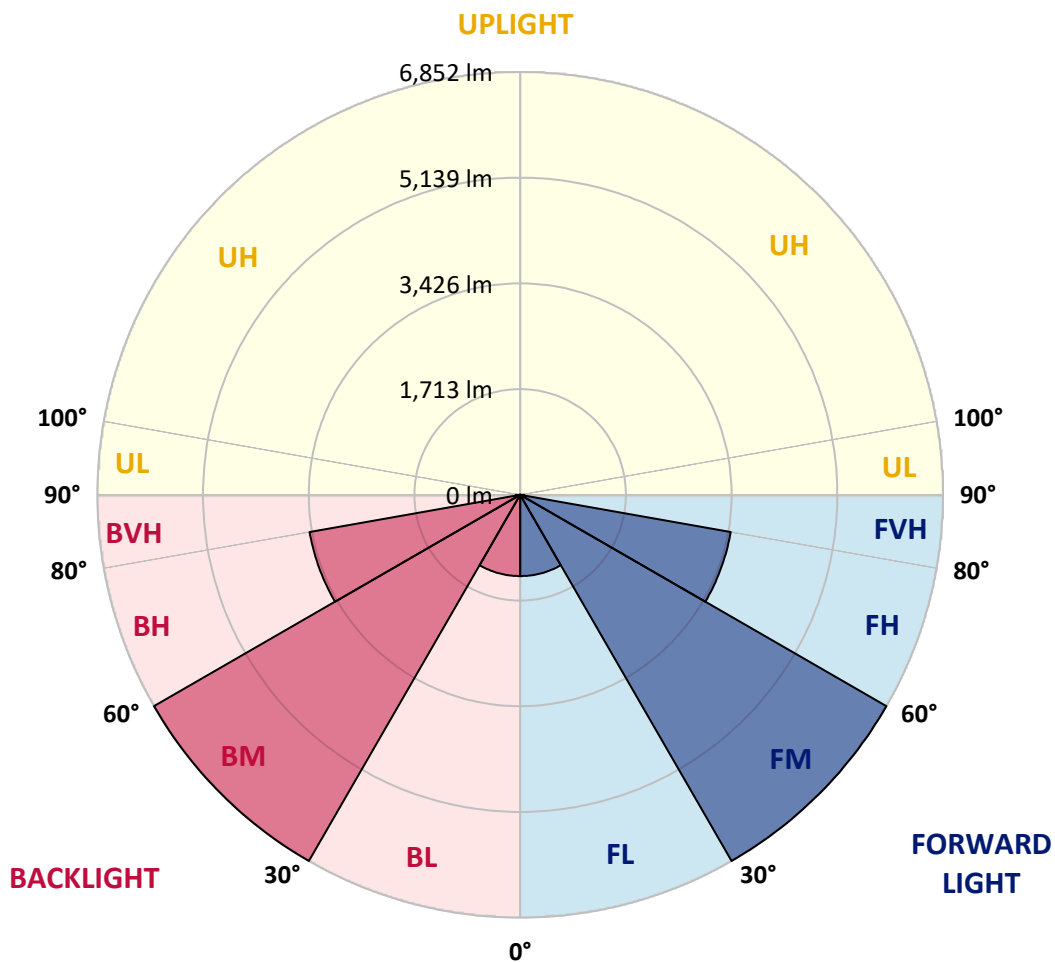
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.7	5.6			
FM	(30°-60°)	6851.6	29.3			
FH	(60°-80°)	3465.3	14.8			G2/5000
FVH	(80°-90°)	67.0	0.3			G1/100
BL	(0°-30°)	1316.7	5.6	B3/2500		
BM	(30°-60°)	6851.6	29.3	B4/8500		
BH	(60°-80°)	3465.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	67.0	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: P192574

CATALOG NUMBER: GLEON-AF-06-LED-E1-5NQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9
2.5°	2650.1	2652.3	2654.5	2652.3	2654.5	2651.1	2649.0	2652.3	2649.0	2645.7	2647.9
5°	2673.0	2674.1	2674.1	2670.9	2674.1	2671.9	2668.6	2673.0	2669.8	2666.5	2668.6
7.5°	2711.4	2715.7	2712.5	2709.2	2711.4	2709.2	2707.0	2708.1	2707.0	2703.7	2704.8
10°	2762.9	2766.2	2764.0	2762.9	2765.2	2764.0	2761.8	2760.8	2761.8	2758.6	2758.6
12.5°	2825.5	2824.4	2823.3	2824.4	2827.6	2827.6	2826.5	2827.6	2829.9	2830.9	2828.7
15°	2886.7	2889.0	2889.0	2889.0	2895.6	2901.1	2904.3	2906.6	2910.8	2912.0	2907.6
17.5°	2963.4	2963.4	2962.3	2963.4	2970.1	2978.9	2982.1	2986.5	2990.9	2994.1	2988.7
20°	3049.0	3051.2	3051.2	3053.4	3062.1	3072.1	3072.1	3074.2	3072.1	3074.2	3070.8
22.5°	3153.1	3159.7	3159.7	3160.8	3169.5	3181.6	3178.4	3181.6	3176.0	3180.5	3176.0
25°	3289.0	3298.9	3296.7	3296.7	3303.2	3310.9	3311.9	3318.5	3317.4	3323.0	3319.8
27.5°	3442.4	3457.7	3462.2	3461.0	3465.4	3473.2	3475.3	3482.9	3478.6	3482.9	3480.8
30°	3626.6	3633.1	3641.9	3645.2	3650.7	3658.3	3658.3	3659.4	3653.9	3660.5	3663.8
32.5°	3817.3	3829.3	3838.1	3857.8	3867.7	3873.1	3872.0	3874.3	3868.8	3877.5	3884.0
35°	4069.4	4078.1	4092.3	4107.7	4120.8	4119.7	4116.5	4117.6	4117.6	4125.2	4131.7
37.5°	4372.9	4375.1	4393.8	4415.6	4422.3	4415.6	4395.9	4391.5	4381.7	4391.5	4402.5
40°	4694.0	4701.7	4738.9	4753.3	4756.5	4744.5	4715.9	4699.5	4677.6	4689.6	4705.0
42.5°	5030.6	5045.8	5079.8	5105.0	5115.9	5108.3	5068.9	5043.6	5015.1	5021.7	5037.1
45°	5403.1	5421.8	5469.9	5494.1	5514.9	5502.9	5464.5	5426.2	5381.2	5384.6	5408.6
47.5°	5819.5	5838.2	5900.6	5941.2	5952.2	5950.0	5907.2	5854.6	5793.3	5791.1	5811.9
50°	6286.4	6305.2	6382.9	6445.4	6477.1	6473.8	6423.5	6348.9	6274.4	6275.6	6301.8
52.5°	6742.4	6765.5	6846.5	6954.0	7016.4	7061.3	7030.7	6960.5	6869.4	6871.8	6895.8
55°	7169.8	7208.2	7301.4	7447.1	7563.3	7689.3	7725.5	7723.3	7668.5	7683.7	7707.9
57.5°	7376.9	7433.9	7577.4	7807.6	8044.4	8300.9	8517.9	8680.0	8749.1	8853.2	8829.1
60°	6984.6	7075.5	7287.0	7625.7	8093.7	8628.5	9201.7	9761.8	10239.6	10600.3	10393.1
62.5°	5718.7	5837.0	6093.6	6527.5	7235.5	8091.5	9188.6	10512.5	11954.8	12825.0	12203.6
65°	3578.3	3701.0	3962.0	4426.6	5255.2	6319.3	7807.6	10001.8	12696.8	14008.6	12743.9
67.5°	1395.1	1462.0	1603.4	1900.4	2522.9	3469.8	4963.6	7453.6	10677.0	11826.6	10478.5
70°	699.3	705.9	732.1	786.8	920.6	1195.8	1819.2	3455.6	6123.1	7395.5	5902.8
72.5°	505.3	506.3	519.5	543.6	586.4	647.7	766.1	1057.6	1991.4	3043.5	1866.4
75°	386.9	391.2	398.9	412.1	435.1	465.8	508.5	609.3	755.1	875.7	736.5
77.5°	298.1	306.9	312.4	324.4	338.7	359.5	371.5	409.9	476.7	501.9	494.3
80°	226.8	234.6	246.6	256.4	266.4	276.2	271.8	289.3	324.4	345.3	334.3
82.5°	144.7	153.4	188.5	197.3	201.7	208.2	200.6	201.7	217.0	230.1	217.0
85°	93.2	98.7	119.4	130.4	131.5	135.9	132.6	125.0	125.0	113.9	128.3
87.5°	42.7	43.8	53.7	63.6	65.8	59.2	58.1	55.9	44.9	42.7	46.0
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: P192574

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9	2647.9
2.5°	2646.8	2649.0	2650.1	2653.4	2654.5	2654.5	2655.5	2657.7
5°	2667.6	2670.9	2671.9	2676.3	2677.4	2676.3	2678.5	2679.6
7.5°	2704.8	2710.2	2712.5	2717.0	2713.6	2718.1	2719.1	2719.1
10°	2759.7	2765.2	2766.2	2770.6	2768.4	2770.6	2770.6	2768.4
12.5°	2832.0	2833.1	2829.9	2833.1	2828.7	2830.9	2827.6	2825.5
15°	2912.0	2908.7	2901.1	2901.1	2894.5	2895.6	2894.5	2893.3
17.5°	2989.8	2983.3	2977.8	2975.5	2970.1	2969.0	2965.8	2965.8
20°	3075.3	3072.1	3068.6	3064.2	3058.8	3053.4	3052.2	3054.5
22.5°	3178.4	3177.2	3177.2	3175.0	3167.3	3161.9	3158.5	3158.5
25°	3316.3	3306.5	3306.5	3305.4	3302.2	3298.9	3292.3	3295.6
27.5°	3472.0	3466.6	3470.9	3469.8	3466.6	3466.6	3462.2	3462.2
30°	3663.8	3661.6	3668.2	3662.7	3651.8	3650.7	3646.3	3640.8
32.5°	3885.2	3883.0	3892.9	3886.3	3868.8	3858.9	3850.1	3845.7
35°	4131.7	4132.8	4145.0	4140.6	4120.8	4114.2	4098.9	4096.6
37.5°	4401.4	4418.9	4439.8	4444.1	4427.7	4423.4	4406.9	4398.1
40°	4718.2	4741.2	4772.9	4780.6	4763.0	4759.8	4736.7	4724.7
42.5°	5055.7	5095.2	5134.6	5141.2	5123.6	5106.1	5084.2	5075.4
45°	5432.7	5479.8	5531.4	5544.5	5518.1	5497.4	5468.9	5468.9
47.5°	5855.8	5915.0	5972.9	6009.2	5985.1	5963.2	5929.2	5907.2
50°	6355.5	6436.6	6512.2	6549.4	6511.1	6469.5	6410.3	6390.6
52.5°	6982.4	7070.0	7135.8	7116.0	7056.9	6998.8	6934.1	6907.9
55°	7782.4	7812.0	7812.0	7737.5	7619.2	7521.6	7419.7	7385.7
57.5°	8783.1	8669.0	8493.7	8271.3	7991.8	7748.4	7584.1	7506.2
60°	9959.1	9411.0	8791.9	8183.6	7683.7	7271.7	7027.3	6915.6
62.5°	10742.7	9309.1	8068.5	7092.0	6373.1	5876.6	5539.0	5407.5
65°	10040.2	7763.9	6102.3	4934.0	4150.4	3645.2	3310.9	3188.1
67.5°	7353.9	4865.0	3249.6	2329.0	1706.4	1361.2	1224.1	1167.2
70°	3301.0	1712.9	1050.0	819.8	706.9	648.8	623.7	614.8
72.5°	995.2	720.0	607.2	547.9	503.0	474.5	453.8	451.6
75°	600.6	499.8	443.9	408.8	380.3	357.3	346.4	343.1
77.5°	419.8	367.1	340.9	315.6	293.7	276.2	266.4	258.6
80°	294.8	269.7	257.6	243.3	229.0	212.6	198.5	191.7
82.5°	197.3	191.7	191.7	183.0	171.0	155.5	127.2	120.5
85°	127.2	126.0	128.3	125.0	116.2	99.8	82.2	77.8
87.5°	59.2	60.3	66.8	65.8	63.6	52.6	41.6	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)