

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: P193375

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193375
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-07-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 23349 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 226
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

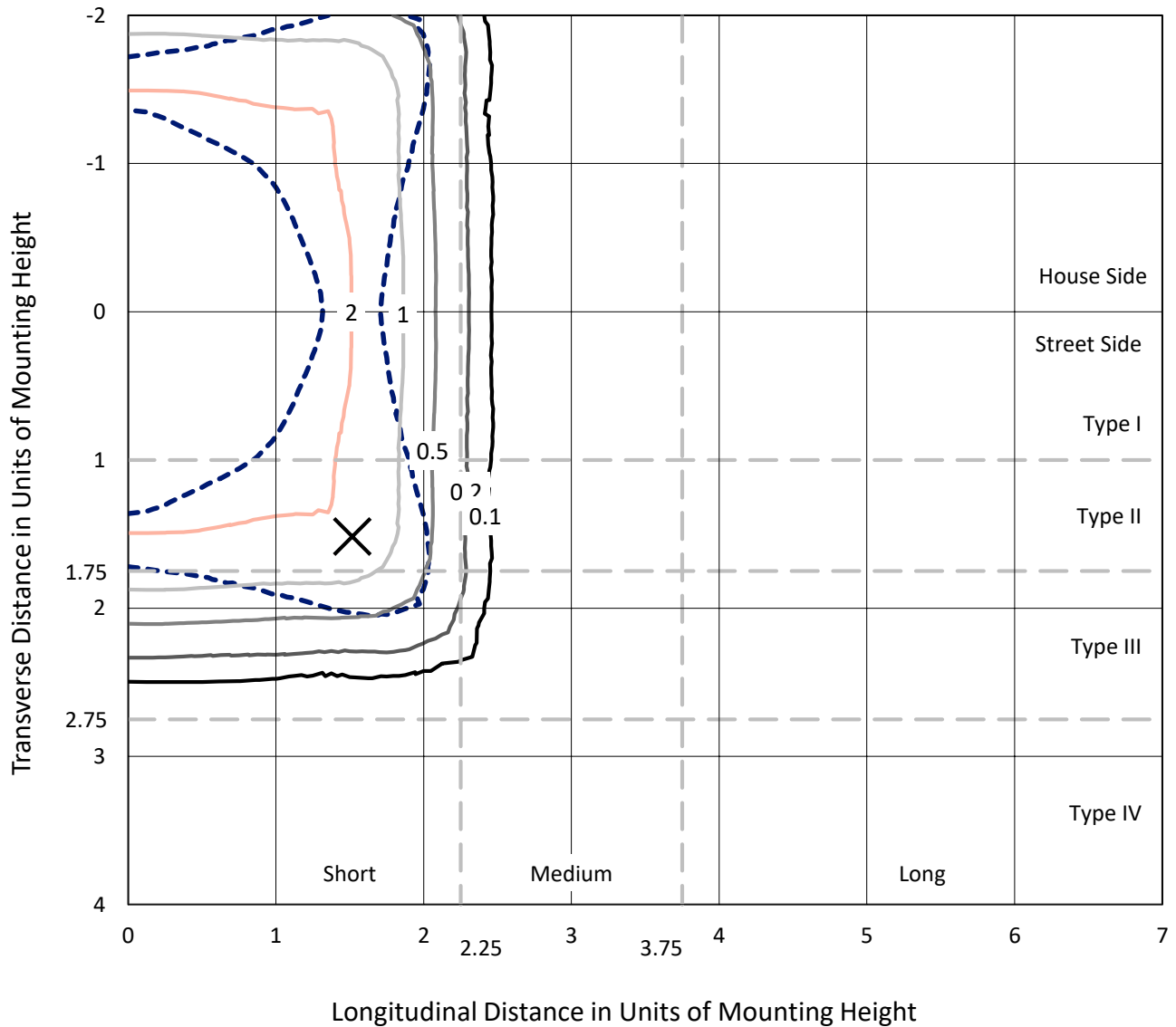


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

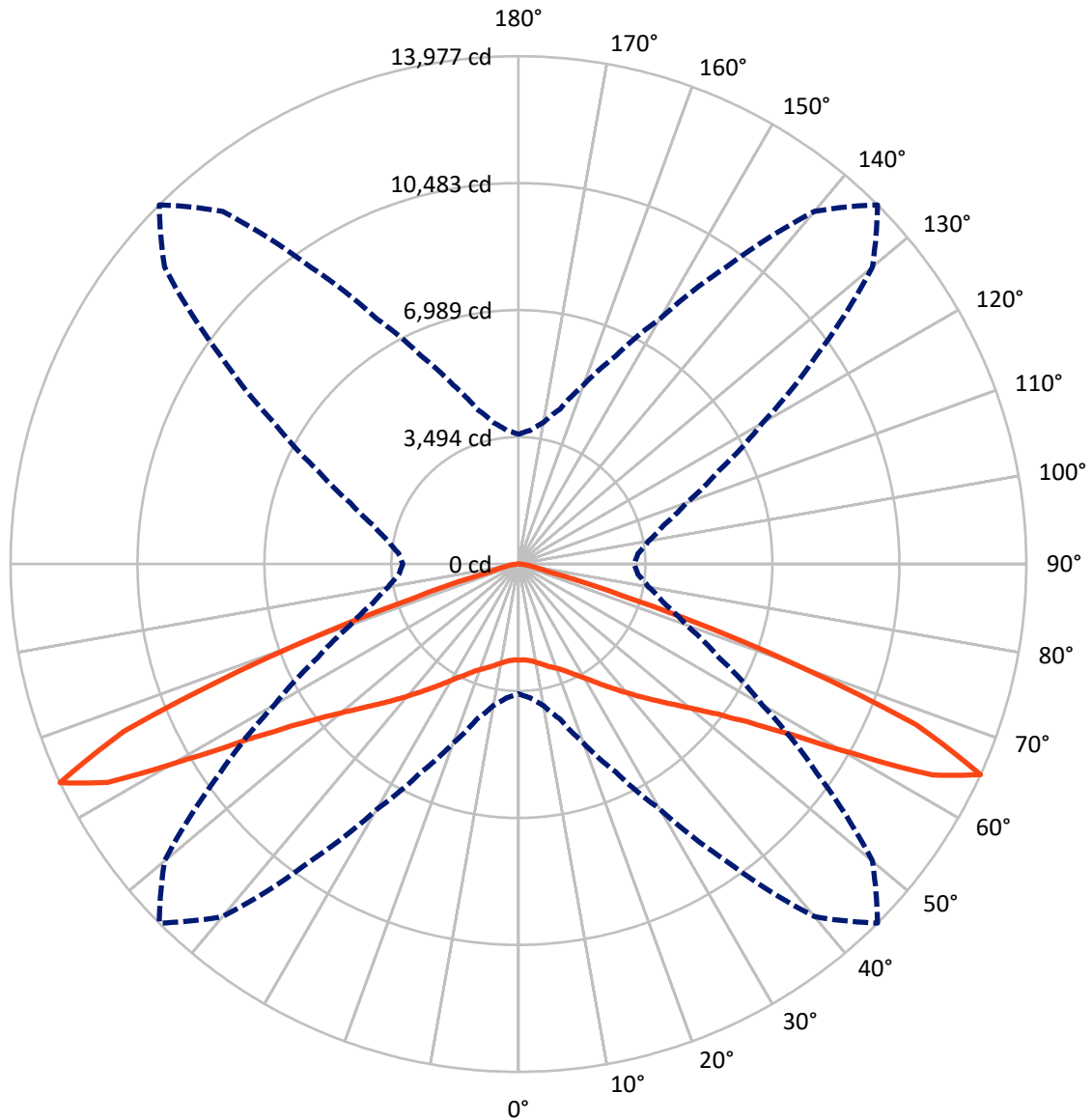


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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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	11674.5	0.0	11674.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11674.5	0.0	11674.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23349.0	0.0	23349.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	1.1
10°-20°	825.9	3.5
20°-30°	1544.2	6.6
30°-40°	2611.7	11.2
40°-50°	4270.4	18.3
50°-60°	6790.6	29.1
60°-70°	6138.3	26.3
70°-80°	776.8	3.3
80°-90°	133.6	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°	23349.0	100.0
0°-180°	23349.0	100.0



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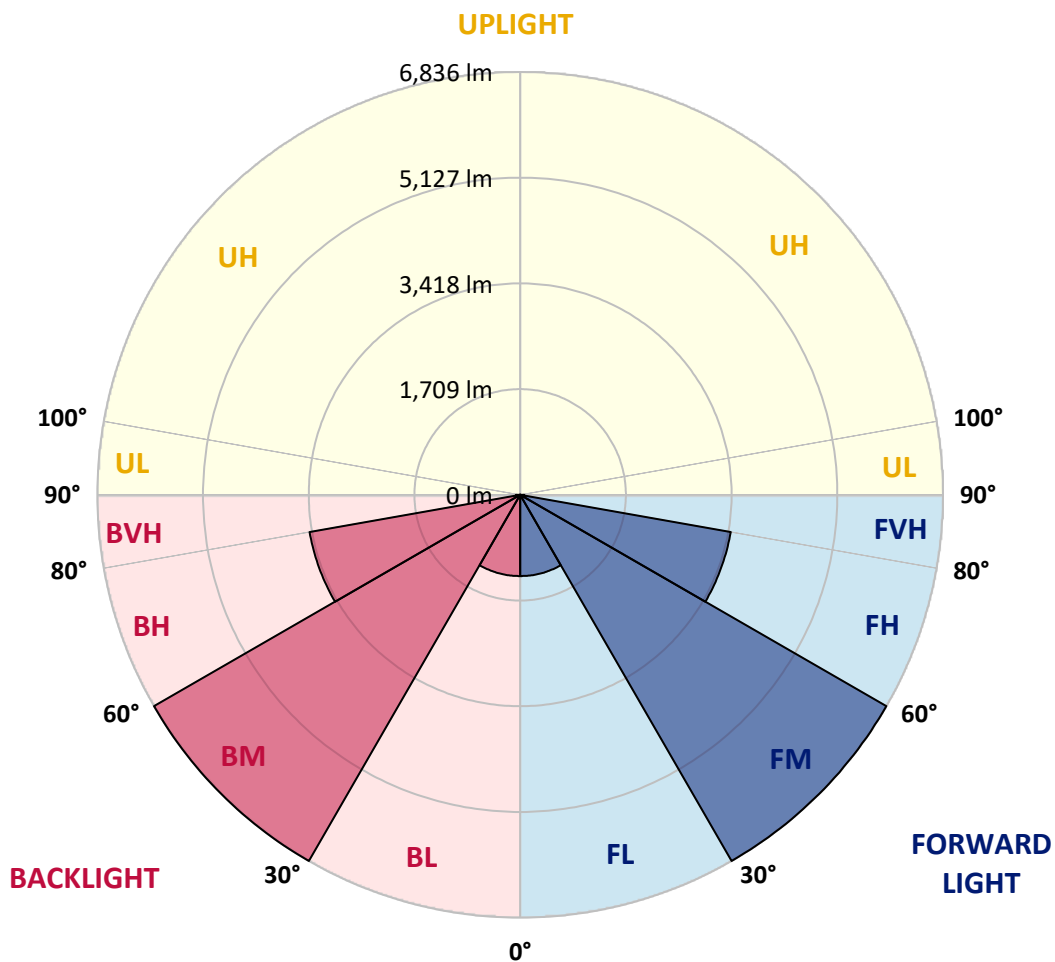
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1313.8	5.6			
FM	(30°-60°)	6836.3	29.3			
FH	(60°-80°)	3457.5	14.8			G2/5000
FVH	(80°-90°)	66.8	0.3			G1/100
BL	(0°-30°)	1313.8	5.6	B3/2500		
BM	(30°-60°)	6836.3	29.3	B4/8500		
BH	(60°-80°)	3457.5	14.8	B4/5000		G2/5000
BVH	(80°-90°)	66.8	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°	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0
2.5°	2644.1	2646.3	2648.5	2646.3	2648.5	2645.2	2643.0	2646.3	2643.0	2639.8	2642.0
5°	2667.1	2668.2	2668.2	2664.9	2668.2	2666.0	2662.7	2667.1	2663.8	2660.5	2662.7
7.5°	2705.4	2709.8	2706.5	2703.2	2705.4	2703.2	2701.0	2702.1	2701.0	2697.7	2698.8
10°	2756.8	2760.1	2757.9	2756.8	2759.0	2757.9	2755.7	2754.6	2755.7	2752.4	2752.4
12.5°	2819.1	2818.0	2816.9	2818.0	2821.3	2821.3	2820.2	2821.3	2823.5	2824.6	2822.4
15°	2880.3	2882.5	2882.5	2882.5	2889.1	2894.6	2897.8	2900.0	2904.4	2905.5	2901.1
17.5°	2956.9	2956.9	2955.8	2956.9	2963.4	2972.2	2975.5	2979.9	2984.2	2987.5	2982.0
20°	3042.2	3044.4	3044.4	3046.6	3055.3	3065.1	3065.1	3067.3	3065.1	3067.3	3064.1
22.5°	3146.1	3152.6	3152.6	3153.7	3162.5	3174.5	3171.2	3174.5	3169.0	3173.4	3169.0
25°	3281.7	3291.5	3289.3	3289.3	3295.9	3303.5	3304.6	3311.2	3310.1	3315.6	3312.3
27.5°	3434.8	3450.1	3454.4	3453.3	3457.7	3465.4	3467.6	3475.2	3470.8	3475.2	3473.0
30°	3618.5	3625.0	3633.8	3637.1	3642.5	3650.2	3650.2	3651.3	3645.8	3652.4	3655.6
32.5°	3808.7	3820.8	3829.5	3849.2	3859.0	3864.5	3863.4	3865.6	3860.1	3868.9	3875.4
35°	4060.3	4069.0	4083.2	4098.5	4111.6	4110.6	4107.3	4108.4	4108.4	4116.0	4122.6
37.5°	4363.2	4365.3	4383.9	4405.8	4412.4	4405.8	4386.1	4381.7	4371.9	4381.7	4392.7
40°	4683.6	4691.2	4728.4	4742.6	4745.9	4733.9	4705.4	4689.0	4667.2	4679.2	4694.5
42.5°	5019.3	5034.6	5068.5	5093.6	5104.6	5096.9	5057.5	5032.4	5004.0	5010.5	5025.8
45°	5391.1	5409.7	5457.8	5481.8	5502.6	5490.6	5452.3	5414.0	5369.2	5372.5	5396.5
47.5°	5806.6	5825.2	5887.5	5928.0	5938.9	5936.7	5894.1	5841.6	5780.4	5778.2	5799.0
50°	6272.4	6291.0	6368.7	6431.0	6462.7	6459.4	6409.1	6334.8	6260.4	6261.5	6287.8
52.5°	6727.4	6750.3	6831.2	6938.4	7000.7	7045.6	7015.0	6945.0	6854.2	6856.4	6880.4
55°	7153.8	7192.1	7285.1	7430.5	7546.4	7672.2	7708.2	7706.1	7651.4	7666.7	7690.7
57.5°	7360.5	7417.4	7560.6	7790.3	8026.5	8282.3	8498.9	8660.7	8729.6	8833.5	8809.4
60°	6969.0	7059.8	7270.8	7608.7	8075.7	8609.3	9181.2	9740.0	10216.8	10576.6	10369.9
62.5°	5706.0	5824.1	6080.0	6513.0	7219.4	8073.5	9168.1	10489.1	11928.2	12796.4	12176.4
65°	3570.4	3692.8	3953.1	4416.7	5243.4	6305.3	7790.3	9979.5	12668.5	13977.4	12715.5
67.5°	1392.1	1458.8	1599.8	1896.2	2517.3	3462.1	4952.6	7437.1	10653.1	11800.2	10455.2
70°	697.7	704.2	730.5	785.1	918.6	1193.0	1815.2	3447.9	6109.5	7379.1	5889.7
72.5°	504.1	505.2	518.3	542.4	585.0	646.3	764.4	1055.2	1986.9	3036.7	1862.3
75°	386.0	390.4	398.0	411.2	434.1	464.7	507.4	608.0	753.4	873.7	734.8
77.5°	297.4	306.2	311.7	323.7	337.9	358.7	370.7	409.0	475.7	500.8	493.2
80°	226.4	234.0	246.0	255.9	265.7	275.6	271.2	288.7	323.7	344.5	333.5
82.5°	144.3	153.1	188.1	196.8	201.2	207.8	200.1	201.2	216.5	229.6	216.5
85°	92.9	98.4	119.2	130.1	131.2	135.6	132.3	124.7	124.7	113.7	127.9
87.5°	42.6	43.7	53.6	63.4	65.6	59.1	58.0	55.8	44.8	42.6	45.9
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°	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0	2642.0
2.5°	2640.9	2643.0	2644.1	2647.4	2648.5	2648.5	2649.6	2651.8
5°	2661.6	2664.9	2666.0	2670.4	2671.5	2670.4	2672.6	2673.7
7.5°	2698.8	2704.3	2706.5	2710.8	2707.6	2711.9	2713.0	2713.0
10°	2753.5	2759.0	2760.1	2764.4	2762.2	2764.4	2764.4	2762.2
12.5°	2825.7	2826.8	2823.5	2826.8	2822.4	2824.6	2821.3	2819.1
15°	2905.5	2902.2	2894.6	2894.6	2888.0	2889.1	2888.0	2886.9
17.5°	2983.1	2976.6	2971.1	2968.9	2963.4	2962.4	2959.1	2959.1
20°	3068.4	3065.1	3061.9	3057.5	3052.0	3046.6	3045.5	3047.6
22.5°	3171.2	3170.1	3170.1	3167.9	3160.3	3154.8	3151.5	3151.5
25°	3309.0	3299.2	3299.2	3298.1	3294.8	3291.5	3284.9	3288.2
27.5°	3464.3	3458.8	3463.2	3462.1	3458.8	3458.8	3454.4	3454.4
30°	3655.6	3653.5	3660.0	3654.6	3643.6	3642.5	3638.2	3632.7
32.5°	3876.5	3874.4	3884.2	3877.6	3860.1	3850.3	3841.5	3837.2
35°	4122.6	4123.7	4135.7	4131.3	4111.6	4105.1	4089.8	4087.6
37.5°	4391.6	4409.1	4429.9	4434.2	4417.8	4413.5	4397.1	4388.3
40°	4707.6	4730.6	4762.3	4769.9	4752.5	4749.2	4726.2	4714.2
42.5°	5044.4	5083.8	5123.2	5129.7	5112.2	5094.7	5072.9	5064.1
45°	5420.6	5467.6	5519.0	5532.1	5505.9	5485.1	5456.7	5456.7
47.5°	5842.7	5901.7	5959.7	5995.8	5971.7	5949.9	5916.0	5894.1
50°	6341.3	6422.3	6497.7	6534.9	6496.6	6455.1	6396.0	6376.3
52.5°	6966.8	7054.3	7119.9	7100.2	7041.2	6983.2	6918.7	6892.5
55°	7765.1	7794.6	7794.6	7720.3	7602.2	7504.8	7403.2	7369.3
57.5°	8763.5	8649.8	8474.8	8252.8	7974.0	7731.2	7567.2	7489.5
60°	9936.8	9390.1	8772.2	8165.3	7666.7	7255.5	7011.7	6900.1
62.5°	10718.7	9288.4	8050.5	7076.2	6358.8	5863.5	5526.7	5395.4
65°	10017.8	7746.5	6088.7	4923.0	4141.2	3637.1	3303.5	3181.1
67.5°	7337.5	4854.1	3242.3	2323.7	1702.6	1358.2	1221.5	1164.6
70°	3293.7	1709.2	1047.6	818.0	705.3	647.4	622.2	613.5
72.5°	992.9	718.4	605.8	546.8	501.9	473.5	452.7	450.5
75°	599.3	498.6	442.9	407.9	379.5	356.5	345.6	342.3
77.5°	418.8	366.3	340.1	314.9	293.1	275.6	265.7	258.1
80°	294.2	269.0	257.0	242.8	228.5	212.1	197.9	191.4
82.5°	196.8	191.4	191.4	182.6	170.6	155.3	126.8	120.3
85°	126.8	125.8	127.9	124.7	115.9	99.5	82.0	77.6
87.5°	59.1	60.1	66.7	65.6	63.4	52.5	41.6	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)