

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: P193402

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193402  
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-04-LED-E1-5NQ-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 22172 lumens  
Efficiency: N/A  
Efficacy: 85.9 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): 258  
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

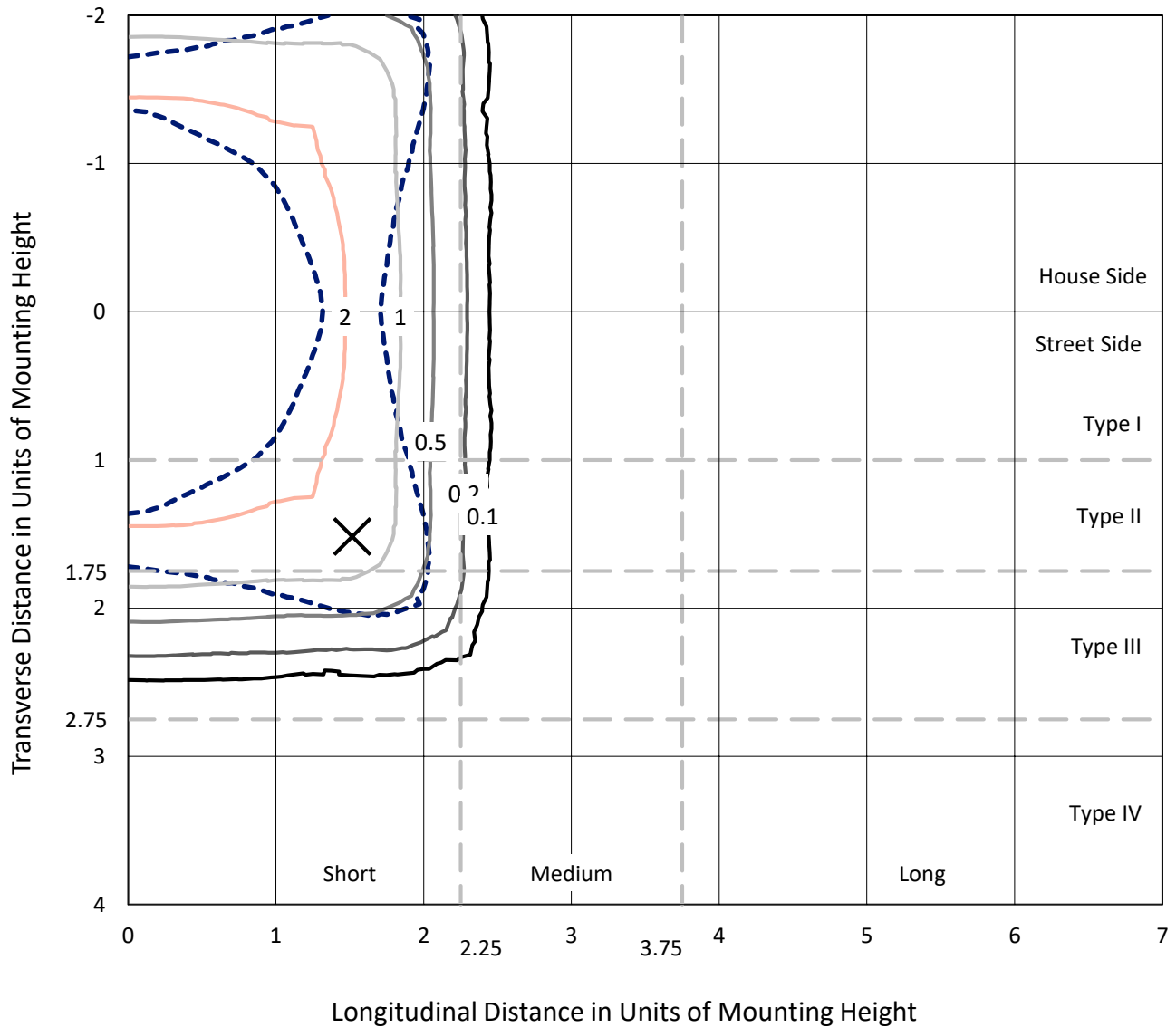


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

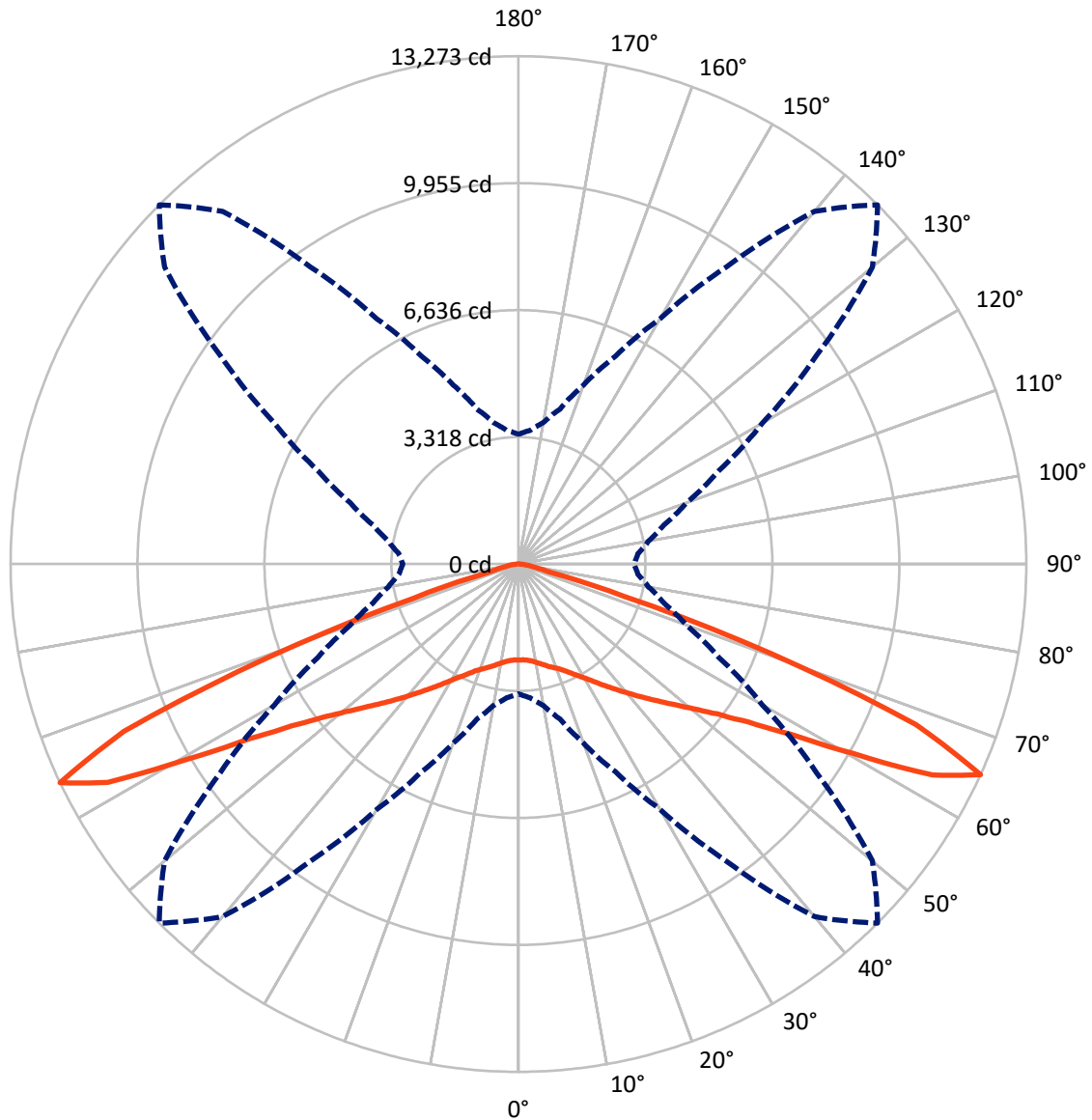


Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	11086.0	0.0	11086.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11086.0	0.0	11086.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22172.0	0.0	22172.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.5	1.1
10°-20°	784.2	3.5
20°-30°	1466.4	6.6
30°-40°	2480.0	11.2
40°-50°	4055.1	18.3
50°-60°	6448.3	29.1
60°-70°	5828.8	26.3
70°-80°	737.7	3.3
80°-90°	126.9	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°	22172.0	100.0
0°-180°	22172.0	100.0



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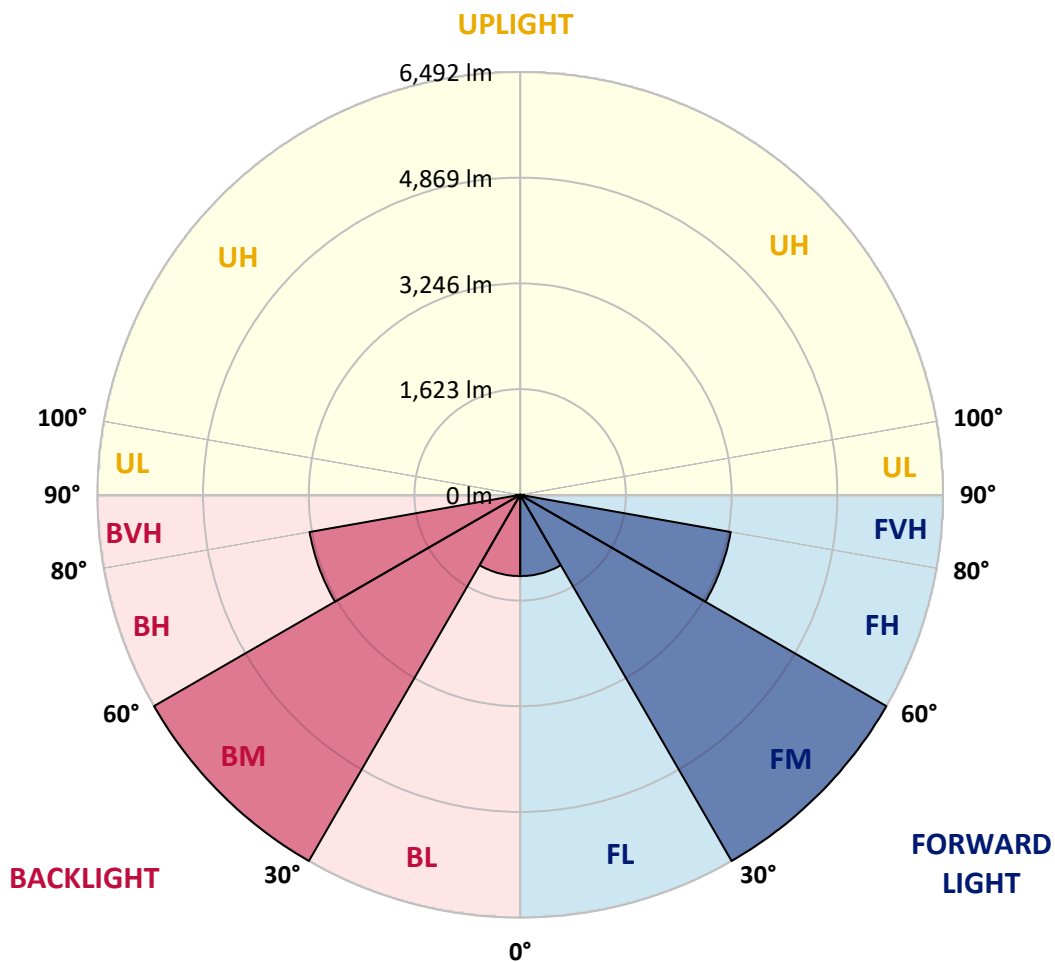
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1247.6	5.6			
FM	(30°-60°)	6491.7	29.3			
FH	(60°-80°)	3283.3	14.8			G2/5000
FVH	(80°-90°)	63.4	0.3			G1/100
BL	(0°-30°)	1247.6	5.6	B3/2500		
BM	(30°-60°)	6491.7	29.3	B4/8500		
BH	(60°-80°)	3283.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	63.4	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°	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2510.9	2512.9	2515.0	2512.9	2515.0	2511.9	2509.8	2512.9	2509.8	2506.7	2508.8
5°	2532.7	2533.7	2533.7	2530.6	2533.7	2531.6	2528.5	2532.7	2529.5	2526.4	2528.5
7.5°	2569.0	2573.2	2570.0	2566.9	2569.0	2566.9	2564.8	2565.9	2564.8	2561.7	2562.8
10°	2617.8	2620.9	2618.8	2617.8	2619.9	2618.8	2616.8	2615.7	2616.8	2613.7	2613.7
12.5°	2677.0	2676.0	2674.9	2676.0	2679.1	2679.1	2678.0	2679.1	2681.1	2682.2	2680.1
15°	2735.1	2737.2	2737.2	2737.2	2743.5	2748.6	2751.8	2753.8	2758.0	2759.0	2754.9
17.5°	2807.8	2807.8	2806.8	2807.8	2814.1	2822.4	2825.5	2829.6	2833.8	2836.9	2831.7
20°	2888.8	2890.9	2890.9	2893.0	2901.3	2910.6	2910.6	2912.7	2910.6	2912.7	2909.6
22.5°	2987.5	2993.7	2993.7	2994.7	3003.1	3014.5	3011.4	3014.5	3009.3	3013.4	3009.3
25°	3116.2	3125.6	3123.5	3123.5	3129.7	3137.0	3138.0	3144.3	3143.2	3148.4	3145.3
27.5°	3261.6	3276.2	3280.3	3279.3	3283.4	3290.7	3292.8	3300.0	3295.9	3300.0	3298.0
30°	3436.1	3442.3	3450.6	3453.7	3458.9	3466.2	3466.2	3467.2	3462.0	3468.3	3471.4
32.5°	3616.7	3628.2	3636.5	3655.2	3664.5	3669.7	3668.7	3670.7	3665.6	3673.9	3680.1
35°	3855.6	3863.9	3877.4	3891.9	3904.4	3903.3	3900.2	3901.3	3901.3	3908.5	3914.8
37.5°	4143.2	4145.3	4162.9	4183.7	4189.9	4183.7	4165.0	4160.9	4151.5	4160.9	4171.3
40°	4447.5	4454.7	4490.0	4503.5	4506.7	4495.2	4468.2	4452.7	4431.9	4443.3	4457.8
42.5°	4766.3	4780.8	4813.0	4836.9	4847.2	4840.0	4802.6	4778.7	4751.7	4757.9	4772.5
45°	5119.3	5137.0	5182.7	5205.5	5225.2	5213.8	5177.5	5141.1	5098.5	5101.7	5124.5
47.5°	5513.9	5531.6	5590.7	5629.2	5639.5	5637.5	5597.0	5547.1	5489.0	5486.9	5506.6
50°	5956.3	5973.9	6047.6	6106.8	6136.9	6133.8	6086.1	6015.4	5944.8	5945.9	5970.8
52.5°	6388.2	6410.0	6486.9	6588.6	6647.8	6690.4	6661.3	6594.9	6508.7	6510.8	6533.6
55°	6793.2	6829.6	6917.8	7055.9	7166.0	7285.4	7319.7	7317.6	7265.7	7280.2	7303.1
57.5°	6989.5	7043.5	7179.5	7397.6	7621.9	7864.8	8070.4	8224.1	8289.5	8388.2	8365.3
60°	6617.7	6703.9	6904.3	7225.2	7668.6	8175.3	8718.4	9249.0	9701.8	10043.4	9847.1
62.5°	5418.4	5530.5	5773.5	6184.7	6855.5	7666.5	8705.9	9960.3	11326.9	12151.4	11562.6
65°	3390.4	3506.7	3753.8	4194.1	4979.1	5987.4	7397.6	9476.4	12029.9	13272.8	12074.5
67.5°	1321.9	1385.2	1519.2	1800.6	2390.4	3287.6	4702.9	7062.2	10116.1	11205.4	9928.1
70°	662.5	668.7	693.7	745.6	872.3	1132.9	1723.7	3274.1	5801.5	7007.1	5592.8
72.5°	478.7	479.7	492.2	515.0	555.5	613.7	725.8	1002.1	1886.8	2883.6	1768.4
75°	366.6	370.7	378.0	390.4	412.2	441.3	481.8	577.4	715.5	829.7	697.8
77.5°	282.4	290.8	295.9	307.4	320.9	340.6	352.0	388.4	451.7	475.6	468.3
80°	214.9	222.2	233.6	243.0	252.3	261.7	257.5	274.1	307.4	327.1	316.7
82.5°	137.1	145.4	178.6	186.9	191.1	197.3	190.0	191.1	205.6	218.1	205.6
85°	88.3	93.5	113.2	123.6	124.6	128.8	125.6	118.4	118.4	108.0	121.5
87.5°	40.5	41.5	50.9	60.2	62.3	56.1	55.0	53.0	42.6	40.5	43.6
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°	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2507.7	2509.8	2510.9	2514.0	2515.0	2515.0	2516.0	2518.1
5°	2527.5	2530.6	2531.6	2535.8	2536.8	2535.8	2537.8	2538.9
7.5°	2562.8	2568.0	2570.0	2574.2	2571.1	2575.2	2576.3	2576.3
10°	2614.7	2619.9	2620.9	2625.1	2623.0	2625.1	2625.1	2623.0
12.5°	2683.2	2684.3	2681.1	2684.3	2680.1	2682.2	2679.1	2677.0
15°	2759.0	2755.9	2748.6	2748.6	2742.4	2743.5	2742.4	2741.4
17.5°	2832.8	2826.5	2821.3	2819.3	2814.1	2813.0	2809.9	2809.9
20°	2913.7	2910.6	2907.5	2903.4	2898.2	2893.0	2891.9	2894.0
22.5°	3011.4	3010.3	3010.3	3008.2	3001.0	2995.8	2992.7	2992.7
25°	3142.2	3132.9	3132.9	3131.8	3128.7	3125.6	3119.4	3122.5
27.5°	3289.7	3284.5	3288.6	3287.6	3284.5	3284.5	3280.3	3280.3
30°	3471.4	3469.3	3475.5	3470.3	3459.9	3458.9	3454.8	3449.6
32.5°	3681.1	3679.1	3688.4	3682.2	3665.6	3656.2	3647.9	3643.7
35°	3914.8	3915.8	3927.2	3923.1	3904.4	3898.2	3883.6	3881.5
37.5°	4170.2	4186.8	4206.6	4210.7	4195.1	4191.0	4175.4	4167.1
40°	4470.3	4492.1	4522.2	4529.5	4512.9	4509.8	4488.0	4476.5
42.5°	4790.1	4827.5	4864.9	4871.1	4854.5	4837.9	4817.1	4808.8
45°	5147.3	5192.0	5240.8	5253.3	5228.3	5208.6	5181.6	5181.6
47.5°	5548.2	5604.2	5659.3	5693.5	5670.7	5649.9	5617.7	5597.0
50°	6021.7	6098.5	6170.2	6205.5	6169.1	6129.7	6073.6	6054.9
52.5°	6615.6	6698.7	6761.0	6742.3	6686.3	6631.2	6570.0	6545.0
55°	7373.7	7401.7	7401.7	7331.1	7219.0	7126.5	7030.0	6997.8
57.5°	8321.7	8213.7	8047.6	7836.8	7572.0	7341.5	7185.7	7112.0
60°	9435.9	8916.7	8330.0	7753.7	7280.2	6889.8	6658.2	6552.3
62.5°	10178.4	8820.2	7644.7	6719.5	6038.3	5567.9	5248.1	5123.5
65°	9512.8	7356.0	5781.8	4674.9	3932.4	3453.7	3137.0	3020.7
67.5°	6967.7	4609.5	3078.9	2206.6	1616.8	1289.7	1159.9	1105.9
70°	3127.7	1623.0	994.8	776.7	669.8	614.7	590.8	582.5
72.5°	942.9	682.2	575.3	519.2	476.6	449.6	429.9	427.8
75°	569.0	473.5	420.6	387.3	360.3	338.5	328.1	325.0
77.5°	397.7	347.9	322.9	299.1	278.3	261.7	252.3	245.1
80°	279.3	255.4	244.0	230.5	217.0	201.4	188.0	181.7
82.5°	186.9	181.7	181.7	173.4	162.0	147.5	120.5	114.2
85°	120.5	119.4	121.5	118.4	110.1	94.5	77.9	73.7
87.5°	56.1	57.1	63.3	62.3	60.2	49.8	39.5	37.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)