

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: P193376

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193376
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-08-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 26456 lumens
Efficiency: N/A
Efficacy: 102.9 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): 257
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

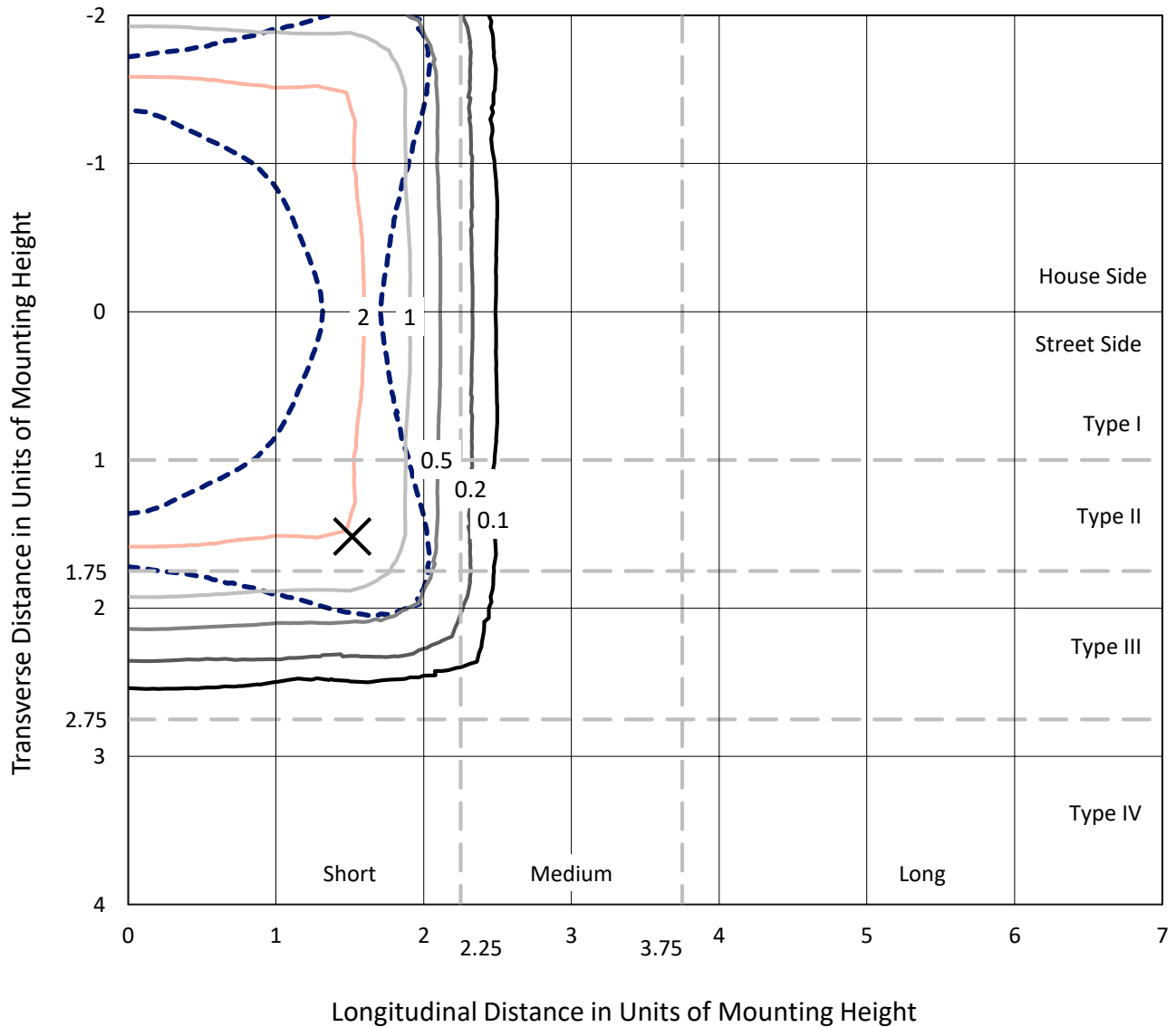


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

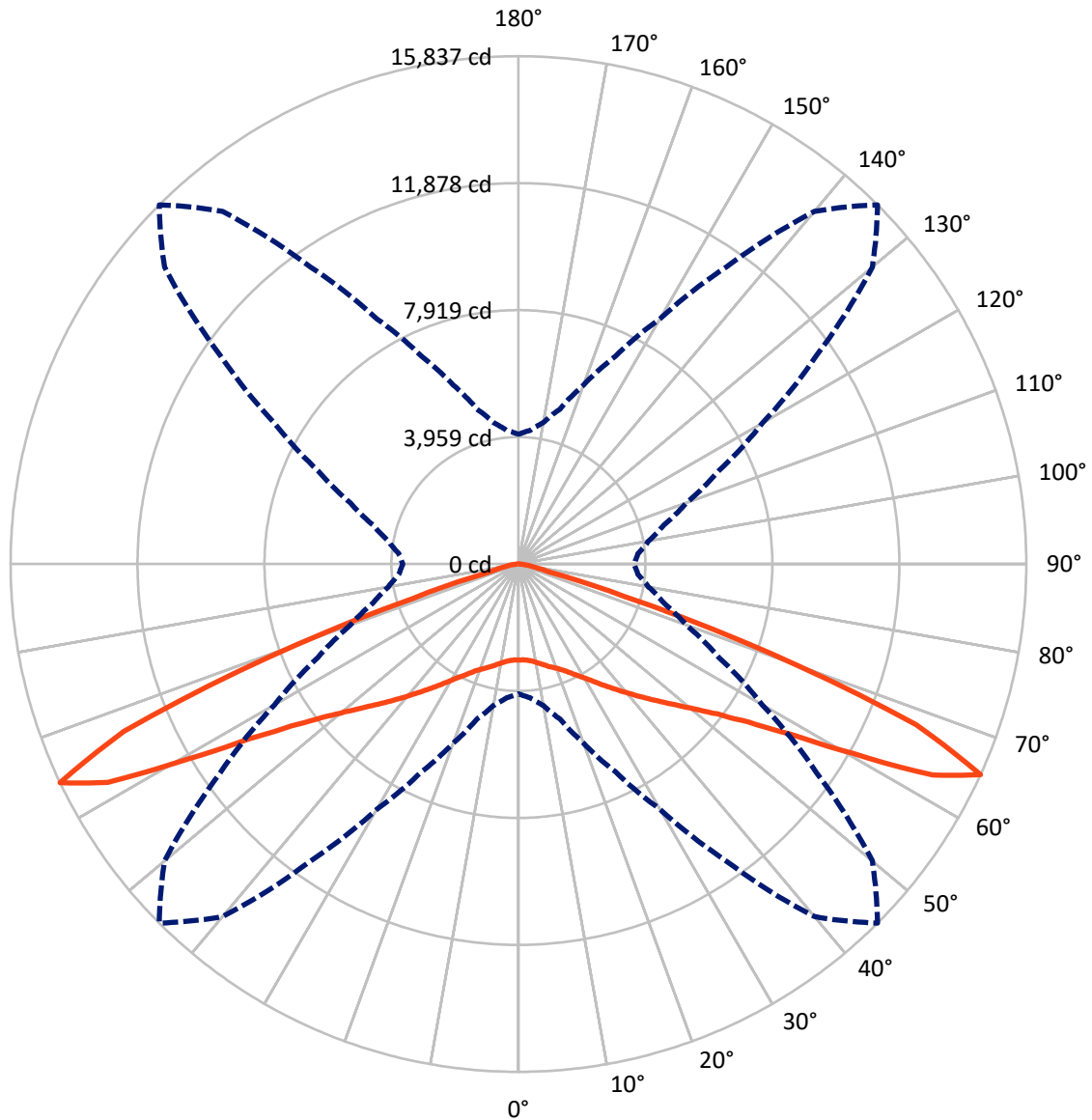


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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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	13228.0	0.0	13228.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13228.0	0.0	13228.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26456.0	0.0	26456.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	1.1
10°-20°	935.8	3.5
20°-30°	1749.7	6.6
30°-40°	2959.2	11.2
40°-50°	4838.7	18.3
50°-60°	7694.2	29.1
60°-70°	6955.1	26.3
70°-80°	880.2	3.3
80°-90°	151.4	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°	26456.0	100.0
0°-180°	26456.0	100.0



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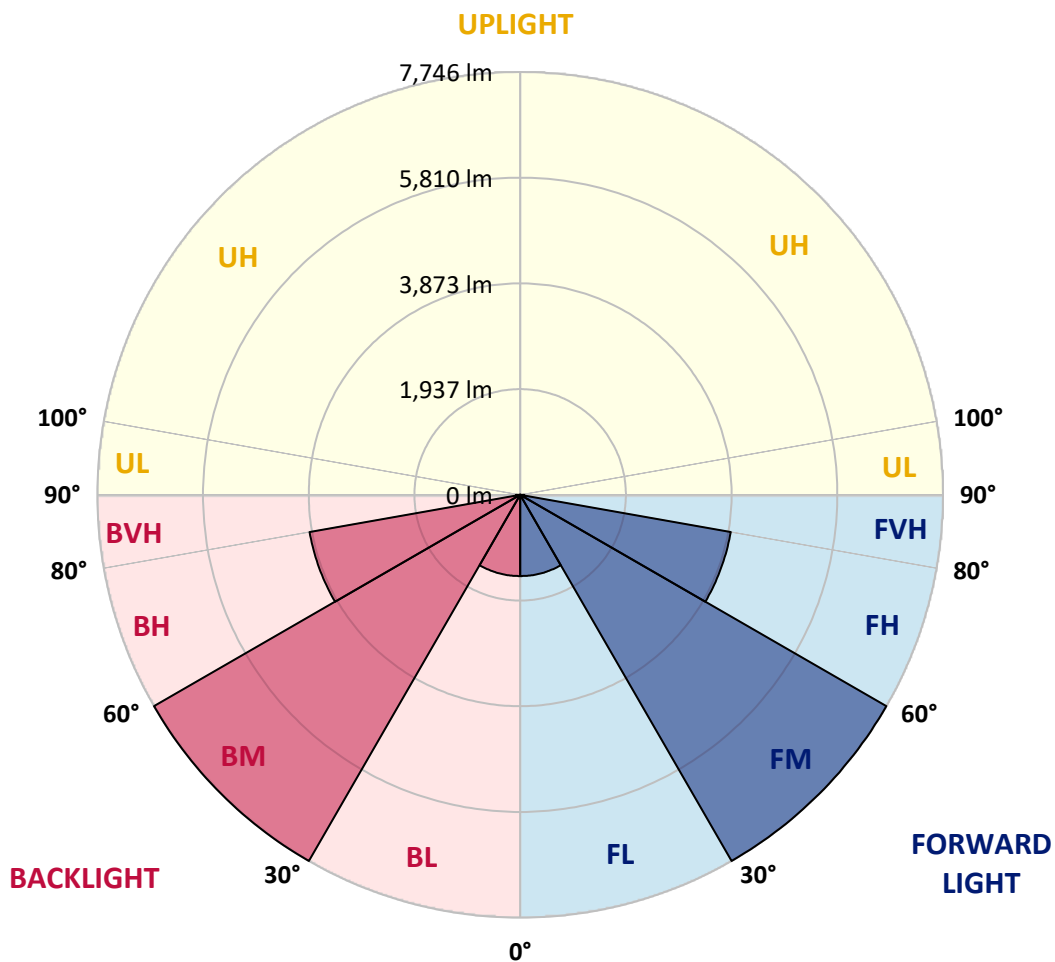
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1488.6	5.6			
FM	(30°-60°)	7746.0	29.3			
FH	(60°-80°)	3917.6	14.8			G2/5000
FVH	(80°-90°)	75.7	0.3			G1/100
BL	(0°-30°)	1488.6	5.6	B3/2500		
BM	(30°-60°)	7746.0	29.3	B4/8500		
BH	(60°-80°)	3917.6	14.8	B4/5000		G2/5000
BVH	(80°-90°)	75.7	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°	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5
2.5°	2996.0	2998.5	3000.9	2998.5	3000.9	2997.2	2994.7	2998.5	2994.7	2991.0	2993.5
5°	3022.0	3023.2	3023.2	3019.5	3023.2	3020.8	3017.1	3022.0	3018.3	3014.6	3017.1
7.5°	3065.4	3070.3	3066.6	3062.9	3065.4	3062.9	3060.4	3061.7	3060.4	3056.7	3057.9
10°	3123.6	3127.3	3124.8	3123.6	3126.1	3124.8	3122.4	3121.1	3122.4	3118.7	3118.7
12.5°	3194.2	3193.0	3191.8	3193.0	3196.7	3196.7	3195.5	3196.7	3199.2	3200.4	3198.0
15°	3263.6	3266.1	3266.1	3266.1	3273.5	3279.7	3283.4	3285.9	3290.9	3292.1	3287.2
17.5°	3350.4	3350.4	3349.1	3350.4	3357.8	3367.7	3371.4	3376.4	3381.3	3385.0	3378.9
20°	3447.0	3449.5	3449.5	3452.0	3461.9	3473.0	3473.0	3475.5	3473.0	3475.5	3471.8
22.5°	3564.7	3572.1	3572.1	3573.4	3583.3	3596.9	3593.2	3596.9	3590.7	3595.7	3590.7
25°	3718.3	3729.5	3727.0	3727.0	3734.5	3743.1	3744.4	3751.8	3750.6	3756.8	3753.0
27.5°	3891.8	3909.2	3914.1	3912.9	3917.8	3926.5	3929.0	3937.7	3932.7	3937.7	3935.2
30°	4100.0	4107.4	4117.3	4121.0	4127.2	4135.9	4135.9	4137.1	4130.9	4138.4	4142.1
32.5°	4315.6	4329.2	4339.1	4361.4	4372.6	4378.8	4377.5	4380.0	4373.8	4383.7	4391.1
35°	4600.5	4610.5	4626.6	4643.9	4658.8	4657.5	4653.8	4655.1	4655.1	4663.7	4671.2
37.5°	4943.8	4946.2	4967.3	4992.1	4999.5	4992.1	4969.8	4964.8	4953.7	4964.8	4977.2
40°	5306.8	5315.5	5357.6	5373.7	5377.4	5363.8	5331.6	5313.0	5288.2	5301.8	5319.2
42.5°	5687.2	5704.5	5742.9	5771.4	5783.8	5775.1	5730.5	5702.0	5669.8	5677.3	5694.6
45°	6108.4	6129.5	6184.0	6211.3	6234.8	6221.2	6177.8	6134.5	6083.7	6087.4	6114.6
47.5°	6579.3	6600.3	6671.0	6716.8	6729.2	6726.7	6678.4	6618.9	6549.5	6547.1	6570.6
50°	7107.1	7128.2	7216.1	7286.8	7322.7	7319.0	7262.0	7177.7	7093.5	7094.7	7124.5
52.5°	7622.5	7648.6	7740.3	7861.7	7932.3	7983.1	7948.4	7869.1	7766.3	7768.8	7796.0
55°	8105.8	8149.1	8254.5	8419.2	8550.6	8693.1	8734.0	8731.5	8669.5	8686.9	8714.1
57.5°	8340.0	8404.4	8566.7	8826.9	9094.5	9384.5	9629.8	9813.2	9891.2	10008.9	9981.7
60°	7896.4	7999.2	8238.3	8621.2	9150.3	9754.9	10402.9	11036.1	11576.3	11984.0	11749.8
62.5°	6465.3	6599.1	6889.0	7379.7	8180.1	9147.8	10388.1	11884.8	13515.4	14499.2	13796.7
65°	4045.5	4184.2	4479.1	5004.5	5941.2	7144.3	8826.9	11307.4	14354.2	15837.4	14407.5
67.5°	1577.3	1652.9	1812.7	2148.5	2852.3	3922.8	5611.6	8426.7	12070.7	13370.4	11846.4
70°	790.5	797.9	827.7	889.6	1040.8	1351.8	2056.8	3906.7	6922.5	8361.0	6673.4
72.5°	571.2	572.4	587.3	614.6	662.9	732.3	866.1	1195.7	2251.3	3440.8	2110.1
75°	437.4	442.3	451.0	465.9	491.9	526.6	574.9	688.9	853.7	990.0	832.6
77.5°	337.0	346.9	353.1	366.8	382.9	406.4	420.0	463.4	539.0	567.5	558.8
80°	256.5	265.2	278.8	289.9	301.1	312.2	307.3	327.1	366.8	390.3	377.9
82.5°	163.6	173.5	213.1	223.0	228.0	235.4	226.7	228.0	245.3	260.2	245.3
85°	105.3	111.5	135.1	147.4	148.7	153.6	149.9	141.3	141.3	128.9	145.0
87.5°	48.3	49.6	60.7	71.9	74.3	66.9	65.7	63.2	50.8	48.3	52.0
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°	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5
2.5°	2992.3	2994.7	2996.0	2999.7	3000.9	3000.9	3002.2	3004.7
5°	3015.8	3019.5	3020.8	3025.7	3027.0	3025.7	3028.2	3029.4
7.5°	3057.9	3064.1	3066.6	3071.6	3067.9	3072.8	3074.0	3074.0
10°	3119.9	3126.1	3127.3	3132.3	3129.8	3132.3	3132.3	3129.8
12.5°	3201.7	3202.9	3199.2	3202.9	3198.0	3200.4	3196.7	3194.2
15°	3292.1	3288.4	3279.7	3279.7	3272.3	3273.5	3272.3	3271.1
17.5°	3380.1	3372.7	3366.5	3364.0	3357.8	3356.5	3352.8	3352.8
20°	3476.7	3473.0	3469.3	3464.3	3458.1	3452.0	3450.7	3453.2
22.5°	3593.2	3592.0	3592.0	3589.5	3580.8	3574.6	3570.9	3570.9
25°	3749.3	3738.2	3738.2	3736.9	3733.2	3729.5	3722.1	3725.8
27.5°	3925.3	3919.1	3924.0	3922.8	3919.1	3919.1	3914.1	3914.1
30°	4142.1	4139.6	4147.1	4140.9	4128.5	4127.2	4122.3	4116.1
32.5°	4392.4	4389.9	4401.1	4393.6	4373.8	4362.6	4352.7	4347.8
35°	4671.2	4672.4	4686.0	4681.1	4658.8	4651.3	4634.0	4631.5
37.5°	4976.0	4995.8	5019.3	5024.3	5005.7	5000.7	4982.2	4972.3
40°	5334.0	5360.1	5396.0	5404.7	5384.8	5381.1	5355.1	5341.5
42.5°	5715.7	5760.3	5804.9	5812.3	5792.5	5772.7	5747.9	5738.0
45°	6141.9	6195.2	6253.4	6268.3	6238.5	6215.0	6182.8	6182.8
47.5°	6620.2	6687.1	6752.7	6793.6	6766.4	6741.6	6703.2	6678.4
50°	7185.2	7276.9	7362.4	7404.5	7361.1	7314.0	7247.1	7224.8
52.5°	7893.9	7993.0	8067.4	8045.1	7978.2	7912.5	7839.4	7809.6
55°	8798.4	8831.8	8831.8	8747.6	8613.8	8503.5	8388.3	8349.9
57.5°	9929.6	9800.8	9602.5	9351.0	9035.0	8760.0	8574.1	8486.2
60°	11259.1	10639.6	9939.5	9251.9	8686.9	8221.0	7944.7	7818.3
62.5°	12145.0	10524.4	9121.8	8017.8	7205.0	6643.7	6262.1	6113.4
65°	11350.8	8777.3	6899.0	5578.1	4692.2	4121.0	3743.1	3604.4
67.5°	8313.9	5500.1	3673.7	2633.0	1929.2	1538.9	1384.0	1319.6
70°	3732.0	1936.6	1187.0	926.8	799.2	733.5	705.0	695.1
72.5°	1125.0	814.0	686.4	619.5	568.7	536.5	513.0	510.5
75°	679.0	565.0	501.8	462.2	429.9	403.9	391.5	387.8
77.5°	474.6	415.1	385.3	356.8	332.1	312.2	301.1	292.4
80°	333.3	304.8	291.2	275.1	259.0	240.4	224.3	216.8
82.5°	223.0	216.8	216.8	206.9	193.3	175.9	143.7	136.3
85°	143.7	142.5	145.0	141.3	131.3	112.8	92.9	88.0
87.5°	66.9	68.1	75.6	74.3	71.9	59.5	47.1	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)