

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: P190843

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190843  
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-05-LED-E1-5NQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25363 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

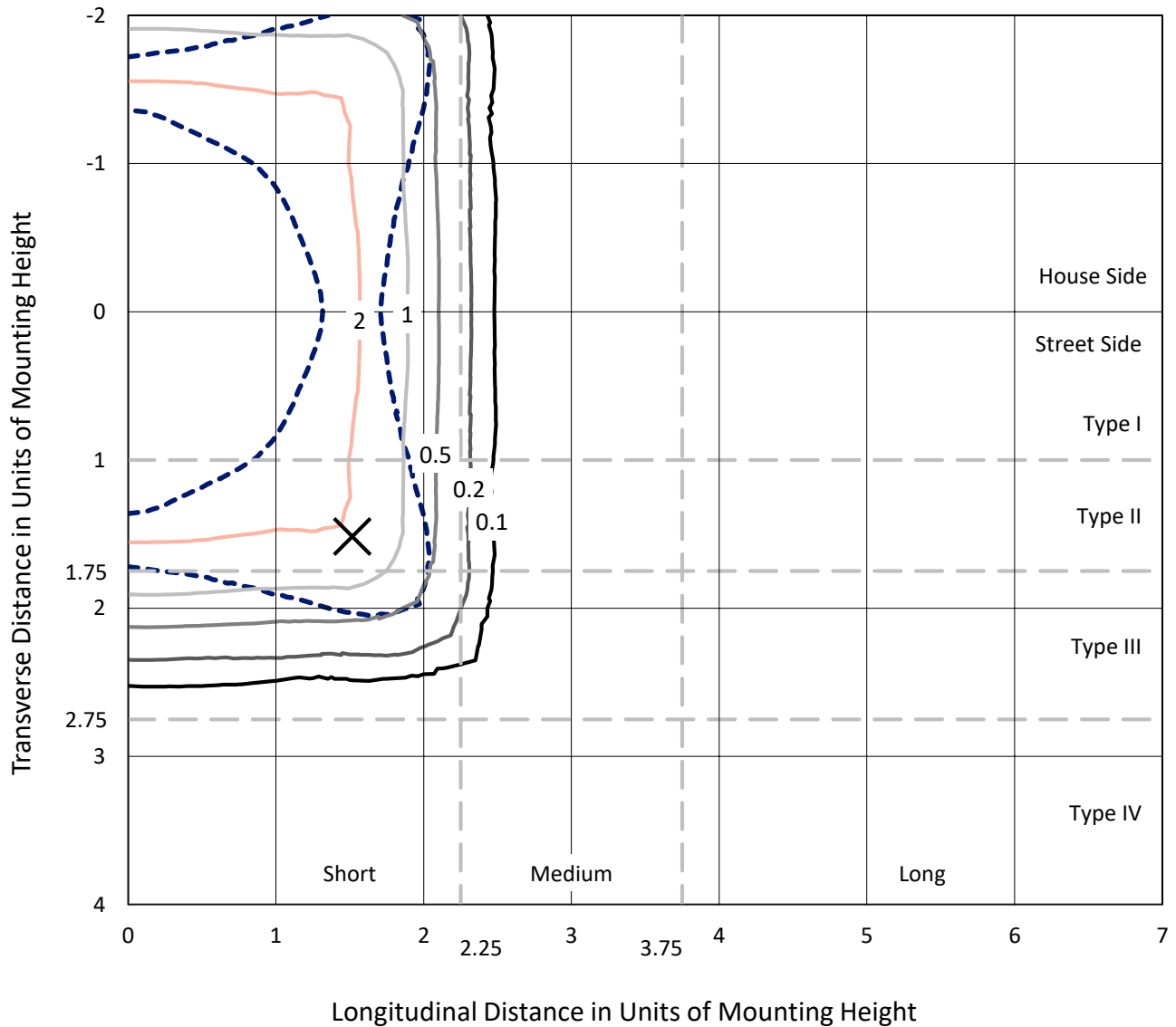
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P190843  
 CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-800

### Iso-Footcandle Lines of Horizontal Illumination

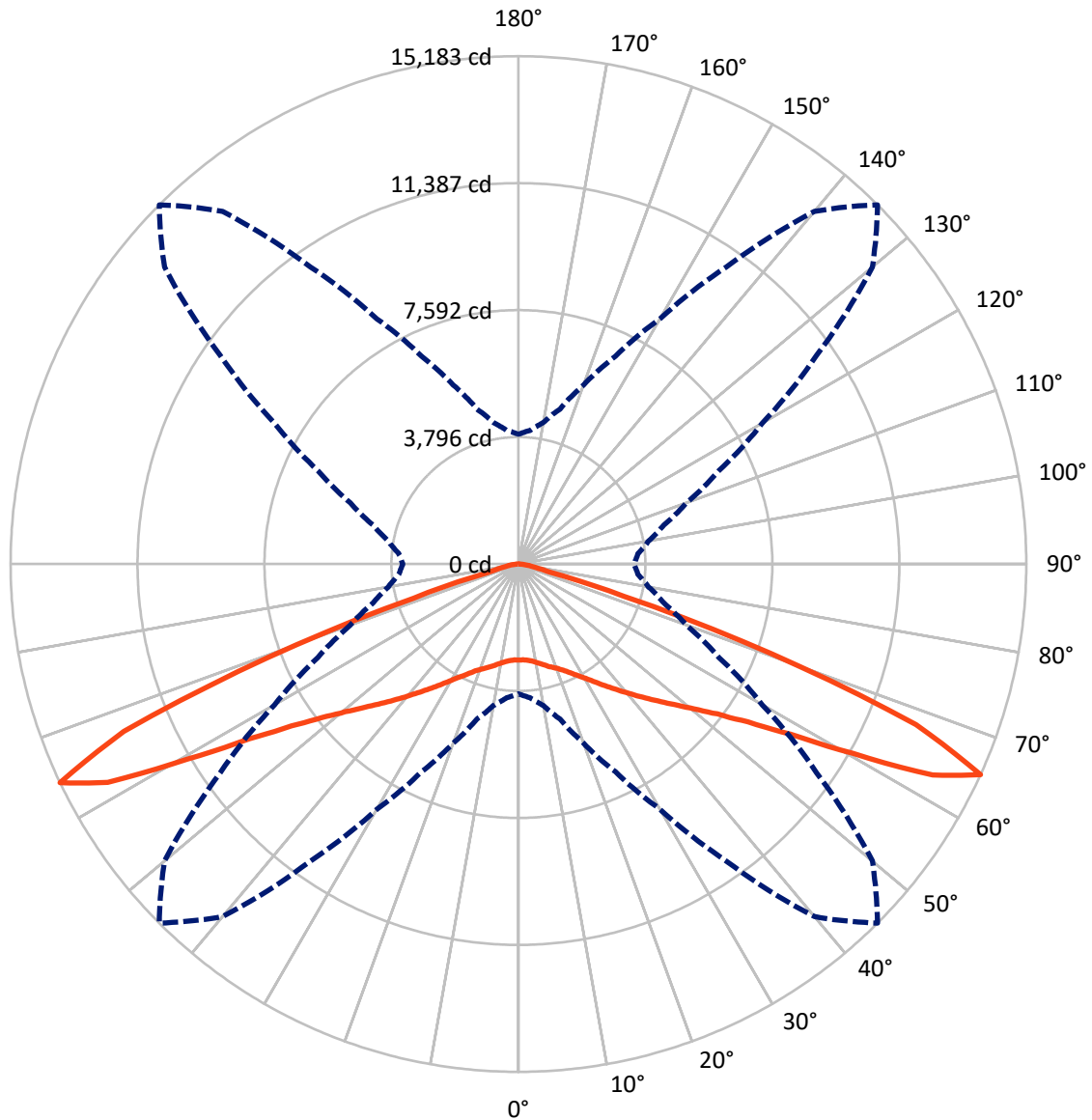
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P190843  
CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P190843

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12681.5	0.0	12681.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12681.5	0.0	12681.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25363.0	0.0	25363.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.7	1.1
10°-20°	897.1	3.5
20°-30°	1677.4	6.6
30°-40°	2837.0	11.2
40°-50°	4638.8	18.3
50°-60°	7376.4	29.1
60°-70°	6667.7	26.3
70°-80°	843.8	3.3
80°-90°	145.2	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°	25363.0	100.0
0°-180°	25363.0	100.0



REPORT NUMBER: P190843

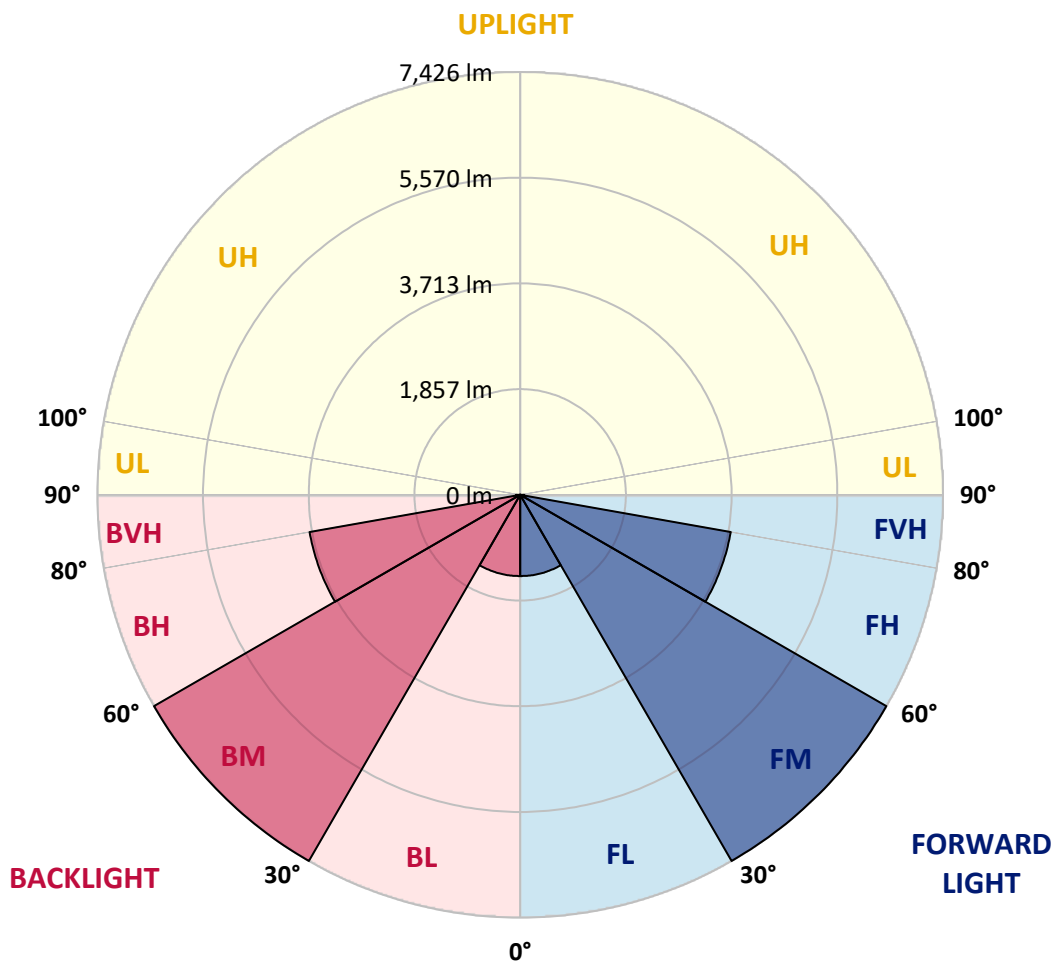
CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1427.1	5.6			
FM	(30°-60°)	7426.0	29.3			
FH	(60°-80°)	3755.8	14.8			G2/5000
FVH	(80°-90°)	72.6	0.3			G1/100
BL	(0°-30°)	1427.1	5.6	B3/2500		
BM	(30°-60°)	7426.0	29.3	B4/8500		
BH	(60°-80°)	3755.8	14.8	B4/5000		G2/5000
BVH	(80°-90°)	72.6	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: P190843

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9
2.5°	2872.2	2874.6	2876.9	2874.6	2876.9	2873.4	2871.0	2874.6	2871.0	2867.4	2869.9
5°	2897.2	2898.3	2898.3	2894.7	2898.3	2896.0	2892.4	2897.2	2893.6	2890.0	2892.4
7.5°	2938.7	2943.4	2940.0	2936.4	2938.7	2936.4	2934.0	2935.2	2934.0	2930.4	2931.6
10°	2994.6	2998.2	2995.7	2994.6	2996.9	2995.7	2993.4	2992.2	2993.4	2989.8	2989.8
12.5°	3062.3	3061.1	3059.9	3061.1	3064.7	3064.7	3063.4	3064.7	3067.0	3068.2	3065.9
15°	3128.8	3131.2	3131.2	3131.2	3138.3	3144.2	3147.8	3150.2	3154.9	3156.1	3151.4
17.5°	3212.0	3212.0	3210.7	3212.0	3219.0	3228.5	3232.1	3236.9	3241.6	3245.2	3239.3
20°	3304.6	3307.0	3307.0	3309.3	3318.9	3329.5	3329.5	3332.0	3329.5	3332.0	3328.4
22.5°	3417.5	3424.5	3424.5	3425.8	3435.3	3448.4	3444.8	3448.4	3442.4	3447.1	3442.4
25°	3564.8	3575.4	3573.1	3573.1	3580.2	3588.5	3589.6	3596.8	3595.6	3601.6	3598.0
27.5°	3731.0	3747.7	3752.4	3751.3	3756.0	3764.3	3766.7	3775.0	3770.2	3775.0	3772.6
30°	3930.6	3937.7	3947.3	3950.7	3956.8	3965.1	3965.1	3966.2	3960.3	3967.4	3971.0
32.5°	4137.3	4150.3	4159.8	4181.2	4192.0	4197.9	4196.7	4199.0	4193.1	4202.6	4209.7
35°	4410.5	4420.0	4435.4	4452.1	4466.3	4465.1	4461.6	4462.7	4462.7	4471.0	4478.2
37.5°	4739.5	4741.9	4762.0	4785.9	4792.9	4785.9	4764.5	4759.7	4749.0	4759.7	4771.6
40°	5087.5	5095.8	5136.2	5151.7	5155.3	5142.2	5111.3	5093.5	5069.7	5082.8	5099.4
42.5°	5452.2	5468.9	5505.7	5533.0	5544.9	5536.5	5493.8	5466.4	5435.6	5442.7	5459.4
45°	5856.1	5876.2	5928.5	5954.7	5977.2	5964.2	5922.6	5881.0	5832.4	5835.9	5862.0
47.5°	6307.5	6327.7	6395.4	6439.4	6451.2	6448.8	6402.5	6345.5	6279.0	6276.6	6299.1
50°	6813.5	6833.7	6918.0	6985.7	7020.2	7016.6	6962.0	6881.2	6800.5	6801.6	6830.1
52.5°	7307.7	7332.6	7420.5	7536.9	7604.6	7653.3	7620.1	7544.1	7445.4	7447.8	7474.0
55°	7770.9	7812.5	7913.4	8071.4	8197.3	8334.0	8373.2	8370.8	8311.4	8328.0	8354.1
57.5°	7995.4	8057.2	8212.8	8462.3	8718.8	8996.8	9231.9	9407.8	9482.5	9595.5	9569.3
60°	7570.1	7668.8	7898.0	8265.0	8772.2	9351.9	9973.2	10580.2	11098.1	11488.9	11264.3
62.5°	6198.2	6326.4	6604.5	7074.8	7842.1	8769.9	9958.9	11393.8	12957.0	13900.2	13226.7
65°	3878.3	4011.4	4294.0	4797.7	5695.7	6849.2	8462.3	10840.3	13761.2	15183.0	13812.3
67.5°	1512.1	1584.6	1737.8	2059.7	2734.4	3760.8	5379.8	8078.5	11572.0	12818.1	11357.0
70°	757.8	765.0	793.5	852.8	997.8	1296.0	1971.8	3745.3	6636.5	8015.6	6397.7
72.5°	547.6	548.8	563.0	589.2	635.5	702.1	830.3	1146.3	2158.3	3298.6	2022.9
75°	419.3	424.0	432.4	446.6	471.6	504.8	551.2	660.4	818.5	949.1	798.2
77.5°	323.0	332.6	338.5	351.6	367.0	389.6	402.6	444.3	516.7	544.0	535.7
80°	245.9	254.2	267.3	277.9	288.7	299.3	294.6	313.6	351.6	374.2	362.3
82.5°	156.8	166.3	204.3	213.8	218.6	225.7	217.4	218.6	235.2	249.5	235.2
85°	101.0	106.9	129.5	141.4	142.5	147.3	143.7	135.4	135.4	123.6	139.0
87.5°	46.3	47.5	58.2	68.8	71.3	64.1	62.9	60.6	48.7	46.3	49.9
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: P190843

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9
2.5°	2868.7	2871.0	2872.2	2875.8	2876.9	2876.9	2878.2	2880.5
5°	2891.3	2894.7	2896.0	2900.7	2901.9	2900.7	2903.1	2904.3
7.5°	2931.6	2937.5	2940.0	2944.7	2941.1	2945.9	2947.0	2947.0
10°	2991.0	2996.9	2998.2	3002.9	3000.5	3002.9	3002.9	3000.5
12.5°	3069.4	3070.6	3067.0	3070.6	3065.9	3068.2	3064.7	3062.3
15°	3156.1	3152.5	3144.2	3144.2	3137.1	3138.3	3137.1	3136.0
17.5°	3240.4	3233.3	3227.4	3225.1	3219.0	3217.9	3214.3	3214.3
20°	3333.1	3329.5	3326.0	3321.2	3315.3	3309.3	3308.1	3310.6
22.5°	3444.8	3443.6	3443.6	3441.2	3432.9	3427.0	3423.4	3423.4
25°	3594.4	3583.7	3583.7	3582.6	3579.0	3575.4	3568.3	3571.8
27.5°	3763.1	3757.2	3761.9	3760.8	3757.2	3757.2	3752.4	3752.4
30°	3971.0	3968.6	3975.7	3969.8	3957.9	3956.8	3952.0	3946.0
32.5°	4210.9	4208.5	4219.3	4212.1	4193.1	4182.4	4172.9	4168.1
35°	4478.2	4479.4	4492.5	4487.7	4466.3	4459.1	4442.6	4440.2
37.5°	4770.4	4789.5	4812.0	4816.8	4798.9	4794.2	4776.4	4766.8
40°	5113.7	5138.6	5173.1	5181.3	5162.4	5158.8	5133.9	5120.8
42.5°	5479.5	5522.3	5565.1	5572.2	5553.2	5534.2	5510.4	5500.9
45°	5888.2	5939.3	5995.1	6009.3	5980.8	5958.3	5927.4	5927.4
47.5°	6346.7	6410.8	6473.7	6512.9	6486.8	6463.1	6426.3	6402.5
50°	6888.3	6976.2	7058.2	7098.6	7057.0	7011.9	6947.7	6926.3
52.5°	7567.8	7662.8	7734.1	7712.7	7648.6	7585.6	7515.5	7487.0
55°	8434.9	8467.0	8467.0	8386.3	8257.9	8152.2	8041.7	8004.9
57.5°	9519.4	9395.9	9205.8	8964.7	8661.8	8398.1	8219.9	8135.5
60°	10794.0	10200.0	9528.9	8869.7	8328.0	7881.3	7616.5	7495.4
62.5°	11643.3	10089.6	8744.9	7686.6	6907.4	6369.2	6003.4	5860.9
65°	10881.8	8414.7	6614.0	5347.7	4498.4	3950.7	3588.5	3455.4
67.5°	7970.4	5272.9	3522.0	2524.1	1849.5	1475.3	1326.9	1265.1
70°	3577.8	1856.7	1137.9	888.5	766.2	703.2	675.9	666.4
72.5°	1078.6	780.4	658.1	593.9	545.2	514.3	491.7	489.4
75°	650.9	541.7	481.1	443.0	412.1	387.3	375.3	371.8
77.5°	454.9	397.9	369.4	342.1	318.3	299.3	288.7	280.3
80°	319.6	292.3	279.2	263.7	248.3	230.5	215.0	207.9
82.5°	213.8	207.9	207.9	198.4	185.3	168.7	137.8	130.6
85°	137.8	136.6	139.0	135.4	125.9	108.1	89.1	84.3
87.5°	64.1	65.4	72.4	71.3	68.8	57.0	45.1	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)