

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: P191661

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191661  
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-03-LED-E1-5NQ-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 20564 lumens  
Efficiency: N/A  
Efficacy: 107.7 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): 191  
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

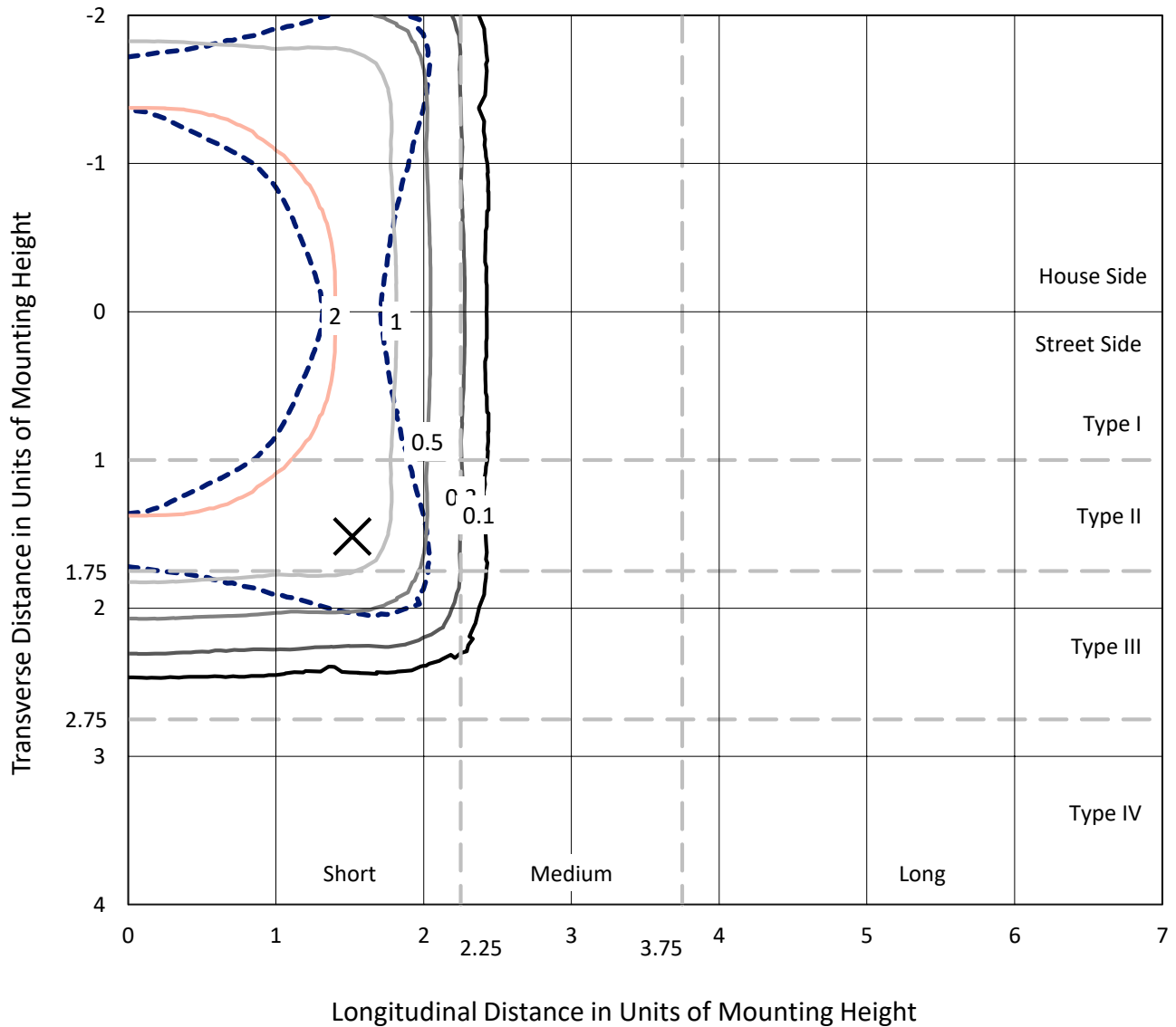


REPORT NUMBER: P191661

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-7050-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

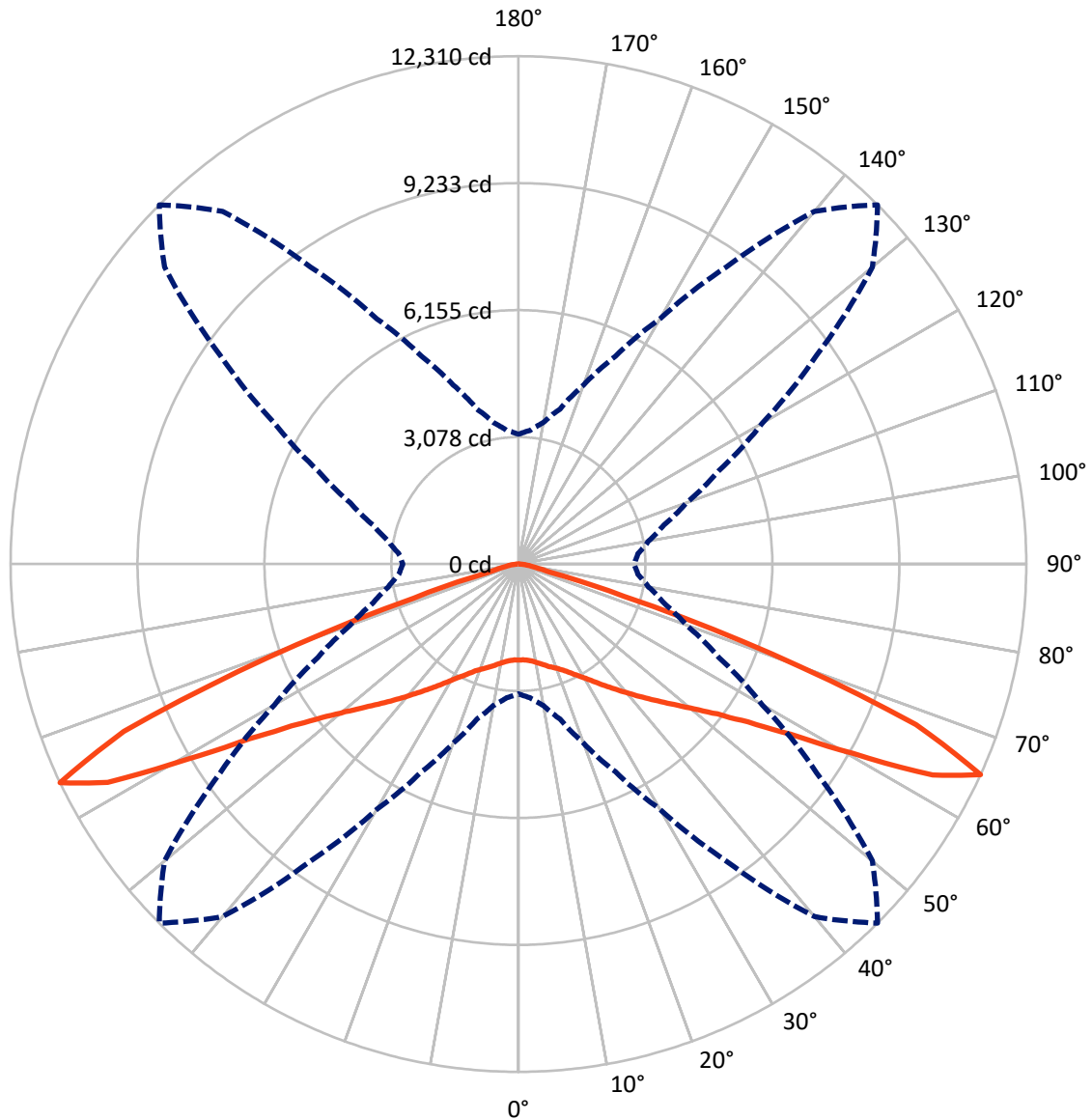


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P191661

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-7050-1200

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191661

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-7050-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10282.0	0.0	10282.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10282.0	0.0	10282.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20564.0	0.0	20564.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.8	1.1
10°-20°	727.4	3.5
20°-30°	1360.0	6.6
30°-40°	2300.2	11.2
40°-50°	3761.0	18.3
50°-60°	5980.6	29.1
60°-70°	5406.1	26.3
70°-80°	684.2	3.3
80°-90°	117.7	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°	20564.0	100.0
0°-180°	20564.0	100.0



REPORT NUMBER: P191661

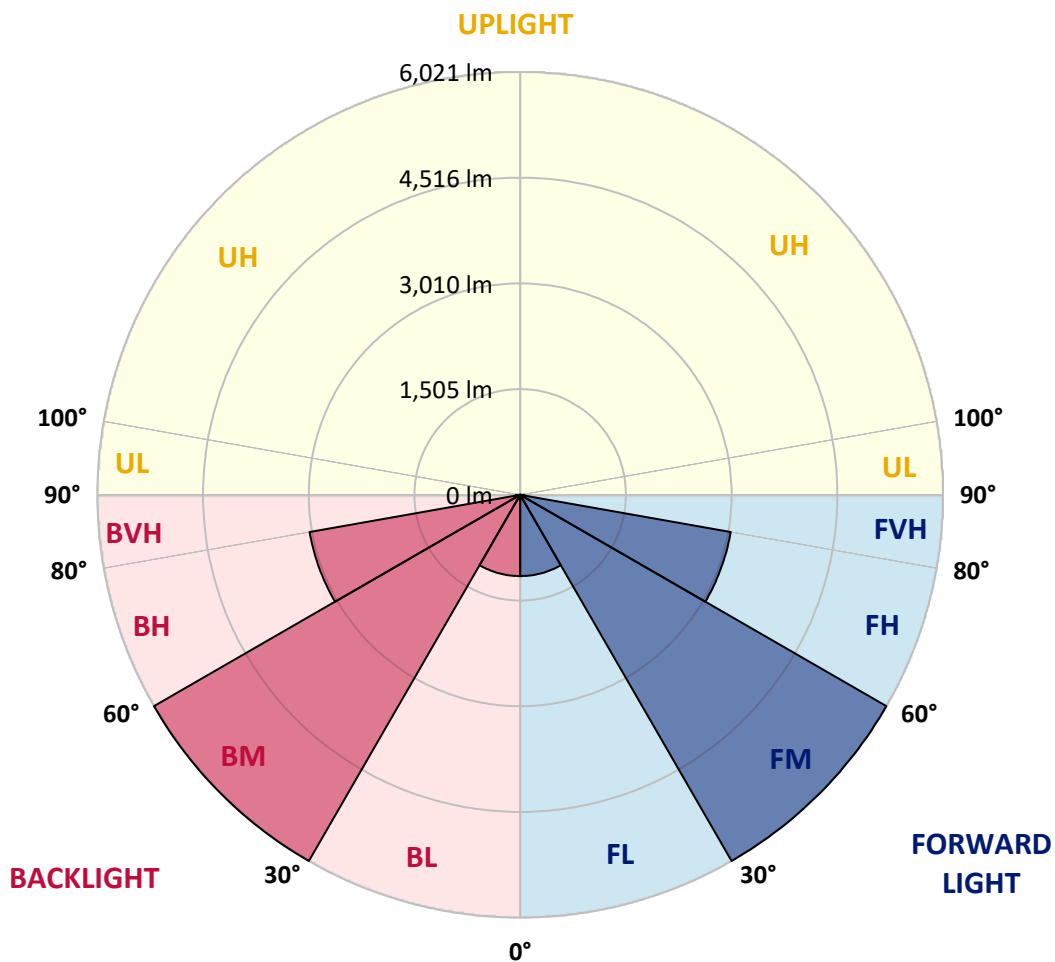
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.1	5.6			
FM	(30°-60°)	6020.9	29.3			
FH	(60°-80°)	3045.1	14.8			G2/5000
FVH	(80°-90°)	58.8	0.3			G1/100
BL	(0°-30°)	1157.1	5.6	B3/2500		
BM	(30°-60°)	6020.9	29.3	B4/8500		
BH	(60°-80°)	3045.1	14.8	B4/5000		G2/5000
BVH	(80°-90°)	58.8	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





REPORT NUMBER: P191661

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-7050-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8
2.5°	2328.8	2330.7	2332.6	2330.7	2332.6	2329.7	2327.8	2330.7	2327.8	2324.9	2326.8
5°	2349.0	2349.9	2349.9	2347.1	2349.9	2348.0	2345.1	2349.0	2346.1	2343.2	2345.1
7.5°	2382.7	2386.5	2383.6	2380.8	2382.7	2380.8	2378.8	2379.8	2378.8	2375.9	2376.9
10°	2428.0	2430.8	2428.9	2428.0	2429.9	2428.9	2427.0	2426.0	2427.0	2424.1	2424.1
12.5°	2482.8	2481.9	2480.9	2481.9	2484.8	2484.8	2483.8	2484.8	2486.7	2487.7	2485.7
15°	2536.8	2538.7	2538.7	2538.7	2544.5	2549.3	2552.2	2554.1	2558.0	2558.9	2555.1
17.5°	2604.2	2604.2	2603.2	2604.2	2610.0	2617.7	2620.6	2624.4	2628.3	2631.2	2626.3
20°	2679.3	2681.2	2681.2	2683.2	2690.9	2699.5	2699.5	2701.5	2699.5	2701.5	2698.6
22.5°	2770.8	2776.6	2776.6	2777.6	2785.3	2795.9	2793.0	2795.9	2791.0	2794.9	2791.0
25°	2890.2	2898.9	2897.0	2897.0	2902.8	2909.5	2910.5	2916.2	2915.3	2920.1	2917.2
27.5°	3025.1	3038.6	3042.4	3041.4	3045.3	3052.0	3054.0	3060.7	3056.9	3060.7	3058.8
30°	3186.9	3192.6	3200.4	3203.2	3208.1	3214.8	3214.8	3215.8	3210.9	3216.7	3219.6
32.5°	3354.4	3365.0	3372.7	3390.1	3398.7	3403.6	3402.6	3404.5	3399.7	3407.4	3413.2
35°	3576.0	3583.7	3596.2	3609.7	3621.2	3620.3	3617.4	3618.3	3618.3	3625.1	3630.9
37.5°	3842.7	3844.7	3861.0	3880.3	3886.1	3880.3	3863.0	3859.1	3850.4	3859.1	3868.7
40°	4124.9	4131.7	4164.4	4176.9	4179.8	4169.2	4144.2	4129.7	4110.5	4121.1	4134.5
42.5°	4420.6	4434.1	4463.9	4486.1	4495.7	4489.0	4454.3	4432.1	4407.1	4412.9	4426.4
45°	4748.0	4764.4	4806.8	4828.0	4846.3	4835.7	4802.0	4768.3	4728.8	4731.7	4752.9
47.5°	5114.0	5130.4	5185.3	5220.9	5230.5	5228.6	5191.1	5144.8	5090.9	5089.0	5107.3
50°	5524.3	5540.7	5609.0	5663.9	5691.9	5689.0	5644.7	5579.2	5513.7	5514.7	5537.8
52.5°	5924.9	5945.2	6016.4	6110.8	6165.7	6205.2	6178.2	6116.6	6036.7	6038.6	6059.8
55°	6300.5	6334.2	6416.1	6544.2	6646.3	6757.0	6788.8	6786.9	6738.7	6752.2	6773.4
57.5°	6482.6	6532.6	6658.8	6861.1	7069.1	7294.5	7485.1	7627.7	7688.4	7779.8	7758.7
60°	6137.8	6217.7	6403.6	6701.2	7112.4	7582.4	8086.1	8578.3	8998.2	9315.0	9133.0
62.5°	5025.4	5129.4	5354.8	5736.2	6358.3	7110.5	8074.6	9238.0	10505.4	11270.1	10724.0
65°	3144.5	3252.4	3481.6	3889.9	4618.0	5553.2	6861.1	8789.2	11157.4	12310.2	11198.8
67.5°	1226.0	1284.8	1409.0	1670.0	2217.0	3049.1	4361.8	6550.0	9382.4	10392.7	9208.1
70°	614.5	620.2	643.3	691.5	809.0	1050.7	1598.7	3036.6	5380.8	6498.9	5187.2
72.5°	444.0	444.9	456.5	477.7	515.3	569.2	673.2	929.4	1749.9	2674.5	1640.1
75°	340.0	343.8	350.6	362.1	382.3	409.3	446.9	535.5	663.6	769.5	647.2
77.5°	262.0	269.7	274.5	285.1	297.6	315.9	326.5	360.2	418.9	441.1	434.4
80°	199.4	206.1	216.7	225.4	234.0	242.7	238.8	254.3	285.1	303.4	293.7
82.5°	127.1	134.8	165.7	173.4	177.2	183.0	176.2	177.2	190.7	202.2	190.7
85°	81.9	86.7	105.0	114.6	115.6	119.4	116.5	109.8	109.8	100.2	112.7
87.5°	37.6	38.5	47.2	55.9	57.8	52.0	51.0	49.1	39.5	37.6	40.4
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: P191661

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-7050-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8
2.5°	2325.9	2327.8	2328.8	2331.6	2332.6	2332.6	2333.6	2335.5
5°	2344.2	2347.1	2348.0	2351.9	2352.8	2351.9	2353.8	2354.8
7.5°	2376.9	2381.7	2383.6	2387.5	2384.6	2388.5	2389.4	2389.4
10°	2425.1	2429.9	2430.8	2434.7	2432.8	2434.7	2434.7	2432.8
12.5°	2488.6	2489.6	2486.7	2489.6	2485.7	2487.7	2484.8	2482.8
15°	2558.9	2556.0	2549.3	2549.3	2543.5	2544.5	2543.5	2542.6
17.5°	2627.3	2621.5	2616.7	2614.8	2610.0	2609.0	2606.1	2606.1
20°	2702.4	2699.5	2696.7	2692.8	2688.0	2683.2	2682.2	2684.1
22.5°	2793.0	2792.0	2792.0	2790.1	2783.3	2778.5	2775.6	2775.6
25°	2914.3	2905.6	2905.6	2904.7	2901.8	2898.9	2893.1	2896.0
27.5°	3051.1	3046.3	3050.1	3049.1	3046.3	3046.3	3042.4	3042.4
30°	3219.6	3217.7	3223.5	3218.6	3209.0	3208.1	3204.2	3199.4
32.5°	3414.2	3412.2	3420.9	3415.1	3399.7	3391.0	3383.3	3379.5
35°	3630.9	3631.8	3642.4	3638.6	3621.2	3615.4	3602.0	3600.0
37.5°	3867.8	3883.2	3901.5	3905.3	3890.9	3887.0	3872.6	3864.9
40°	4146.1	4166.3	4194.3	4201.0	4185.6	4182.7	4162.5	4151.9
42.5°	4442.7	4477.4	4512.1	4517.9	4502.4	4487.0	4467.8	4460.1
45°	4774.0	4815.5	4860.7	4872.3	4849.2	4830.9	4805.8	4805.8
47.5°	5145.8	5197.8	5248.8	5280.6	5259.4	5240.2	5210.3	5191.1
50°	5585.0	5656.2	5722.7	5755.4	5721.7	5685.1	5633.1	5615.8
52.5°	6135.9	6212.9	6270.7	6253.3	6201.3	6150.3	6093.5	6070.4
55°	6838.9	6864.9	6864.9	6799.4	6695.4	6609.7	6520.1	6490.3
57.5°	7718.2	7618.0	7464.0	7268.4	7022.9	6809.1	6664.6	6596.2
60°	8751.6	8270.1	7725.9	7191.4	6752.2	6390.1	6175.3	6077.1
62.5°	9440.2	8180.5	7090.3	6232.2	5600.4	5164.1	4867.5	4751.9
65°	8822.9	6822.5	5362.5	4335.8	3647.2	3203.2	2909.5	2801.6
67.5°	6462.3	4275.2	2855.6	2046.6	1499.5	1196.2	1075.8	1025.7
70°	2900.8	1505.3	922.6	720.4	621.2	570.1	548.0	540.3
72.5°	874.5	632.8	533.6	481.5	442.1	417.0	398.7	396.8
75°	527.8	439.2	390.1	359.2	334.2	314.0	304.3	301.4
77.5°	368.9	322.6	299.5	277.4	258.1	242.7	234.0	227.3
80°	259.1	236.9	226.3	213.8	201.3	186.8	174.3	168.5
82.5°	173.4	168.5	168.5	160.8	150.2	136.8	111.7	105.9
85°	111.7	110.8	112.7	109.8	102.1	87.6	72.2	68.4
87.5°	52.0	53.0	58.7	57.8	55.9	46.2	36.6	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)