

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: P269205

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269205  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21519 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

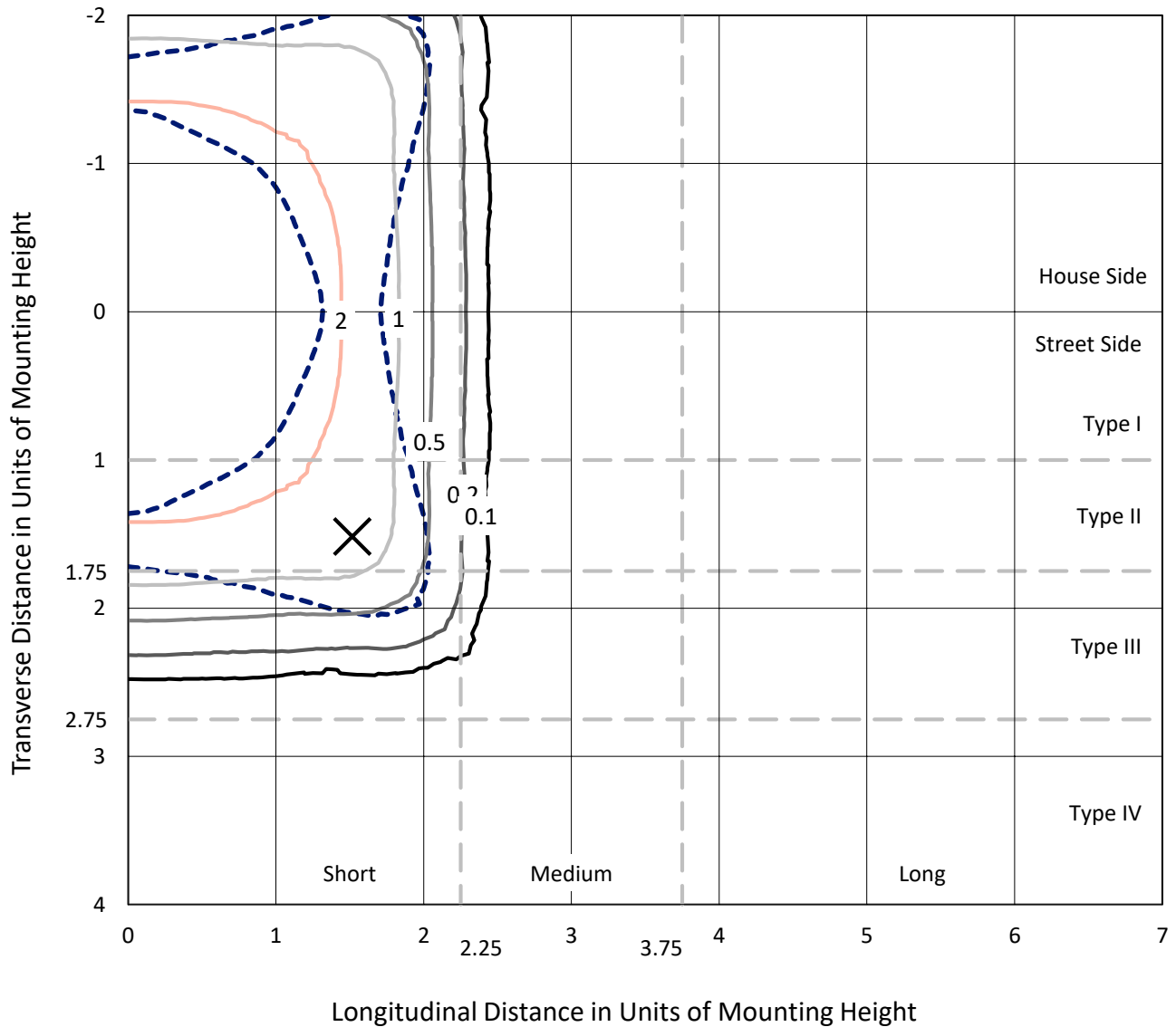
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

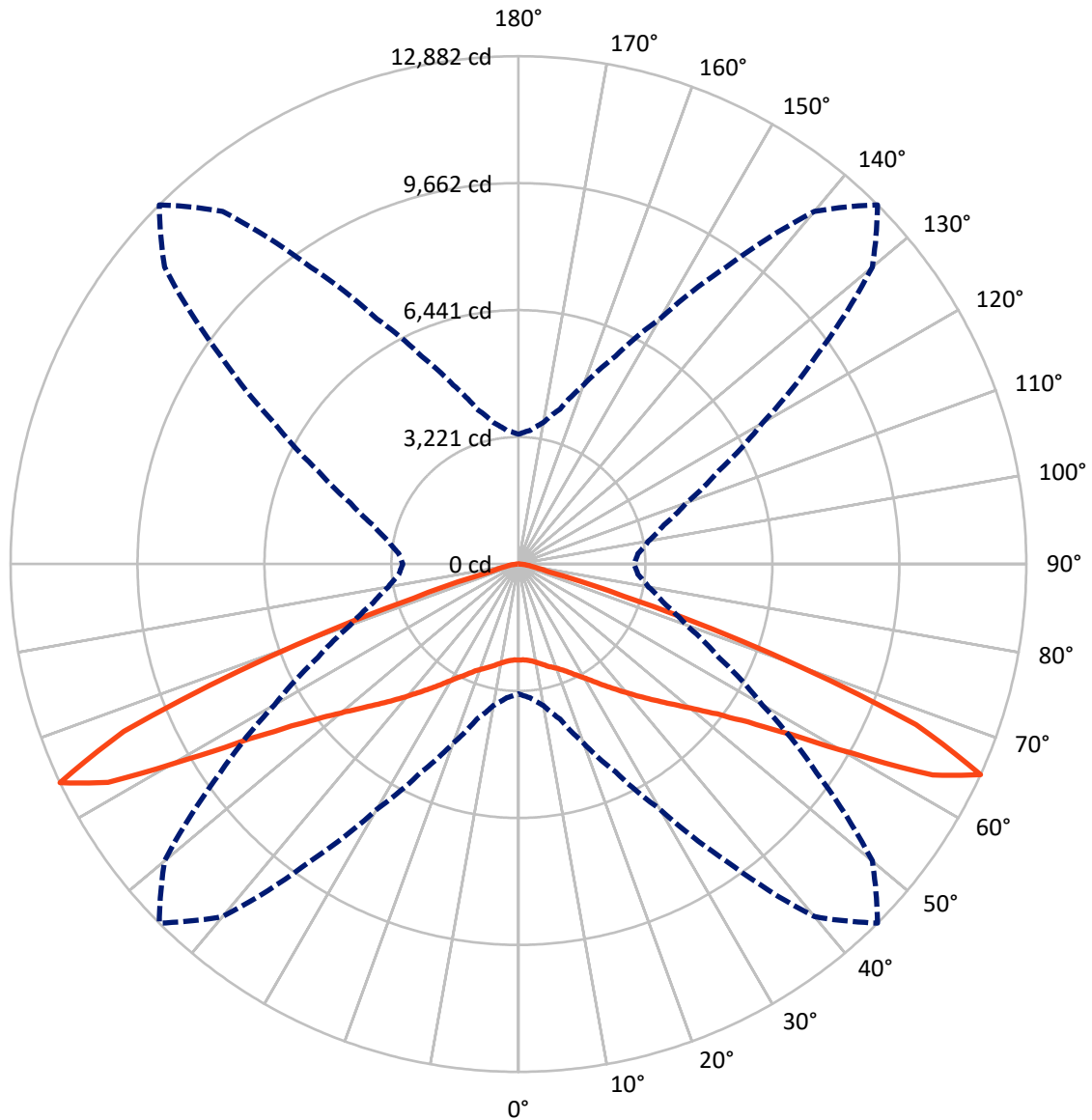
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	10759.5	0.0	10759.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10759.5	0.0	10759.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21519.0	0.0	21519.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.3	1.1
10°-20°	761.1	3.5
20°-30°	1423.2	6.6
30°-40°	2407.0	11.2
40°-50°	3935.7	18.3
50°-60°	6258.4	29.1
60°-70°	5657.2	26.3
70°-80°	715.9	3.3
80°-90°	123.2	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°	21519.0	100.0
0°-180°	21519.0	100.0



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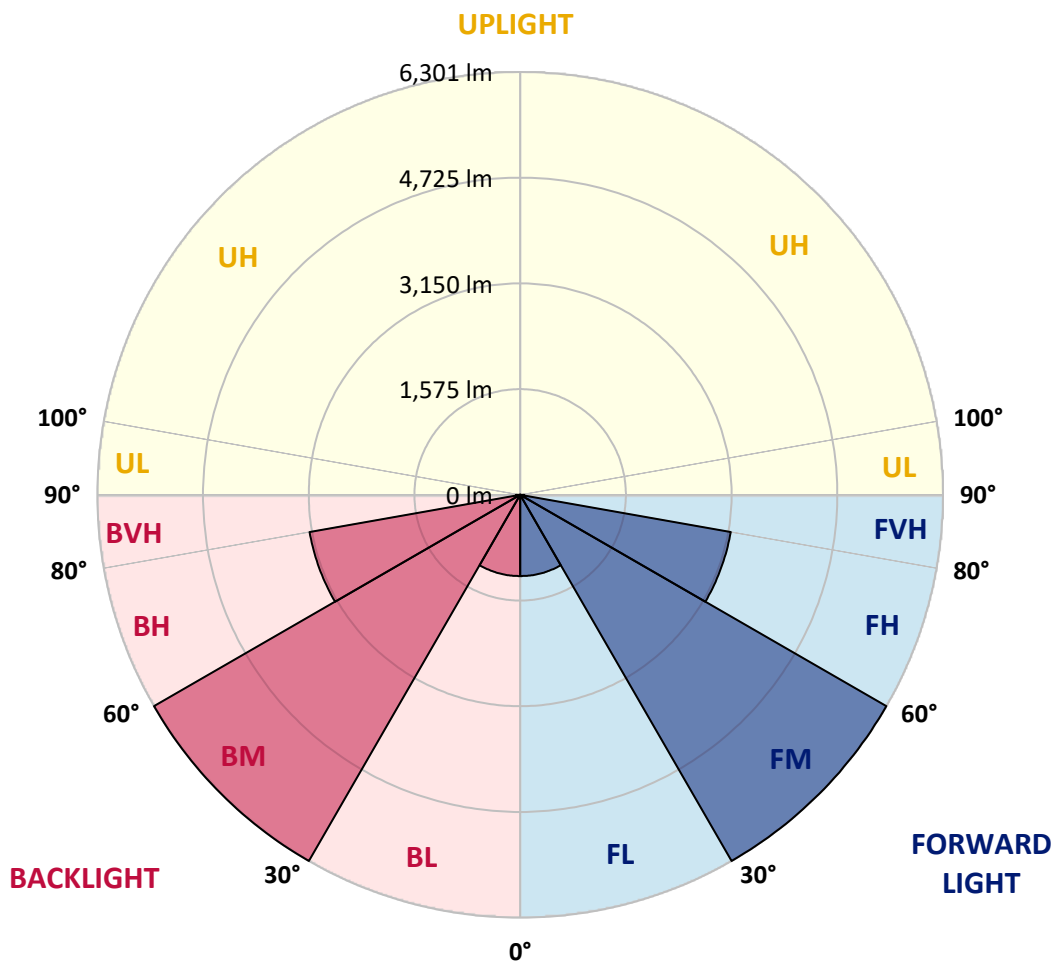
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1210.8	5.6			
FM	(30°-60°)	6300.5	29.3			
FH	(60°-80°)	3186.6	14.8			G2/5000
FVH	(80°-90°)	61.6	0.3			G1/100
BL	(0°-30°)	1210.8	5.6	B3/2500		
BM	(30°-60°)	6300.5	29.3	B4/8500		
BH	(60°-80°)	3186.6	14.8	B4/5000		G2/5000
BVH	(80°-90°)	61.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9
2.5°	2436.9	2438.9	2441.0	2438.9	2441.0	2437.9	2435.9	2438.9	2435.9	2432.9	2434.9
5°	2458.0	2459.1	2459.1	2456.1	2459.1	2457.0	2454.0	2458.0	2455.1	2452.1	2454.0
7.5°	2493.3	2497.4	2494.4	2491.3	2493.3	2491.3	2489.4	2490.3	2489.4	2486.2	2487.2
10°	2540.6	2543.7	2541.8	2540.6	2542.7	2541.8	2539.7	2538.7	2539.7	2536.6	2536.6
12.5°	2598.2	2597.1	2596.1	2597.1	2600.1	2600.1	2599.2	2600.1	2602.2	2603.2	2601.2
15°	2654.6	2656.6	2656.6	2656.6	2662.7	2667.6	2670.8	2672.7	2676.8	2677.8	2673.7
17.5°	2725.2	2725.2	2724.1	2725.2	2731.1	2739.2	2742.3	2746.3	2750.3	2753.3	2748.4
20°	2803.7	2805.8	2805.8	2807.8	2815.8	2824.9	2824.9	2827.0	2824.9	2827.0	2823.9
22.5°	2899.5	2905.6	2905.6	2906.6	2914.6	2925.7	2922.6	2925.7	2920.7	2924.7	2920.7
25°	3024.5	3033.5	3031.5	3031.5	3037.6	3044.6	3045.7	3051.6	3050.6	3055.8	3052.7
27.5°	3165.5	3179.7	3183.8	3182.7	3186.6	3193.7	3195.8	3202.8	3198.9	3202.8	3200.8
30°	3334.9	3340.8	3349.1	3351.9	3357.1	3364.2	3364.2	3365.1	3360.1	3366.0	3369.2
32.5°	3510.2	3521.4	3529.4	3547.4	3556.6	3561.6	3560.6	3562.7	3557.6	3565.6	3571.8
35°	3742.0	3750.1	3763.2	3777.4	3789.4	3788.4	3785.4	3786.4	3786.4	3793.5	3799.6
37.5°	4021.3	4023.1	4040.3	4060.5	4066.5	4060.5	4042.4	4038.3	4029.3	4038.3	4048.4
40°	4316.4	4323.5	4357.8	4371.0	4373.8	4362.9	4336.7	4321.6	4301.4	4312.5	4326.5
42.5°	4625.9	4639.9	4671.2	4694.5	4704.6	4697.4	4661.1	4637.9	4611.8	4617.7	4631.9
45°	4968.5	4985.7	5030.0	5052.2	5071.3	5060.2	5024.9	4989.6	4948.4	4951.4	4973.6
47.5°	5351.6	5368.6	5426.1	5463.4	5473.5	5471.4	5432.1	5383.7	5327.3	5325.3	5344.5
50°	5780.9	5798.0	5869.5	5926.9	5956.2	5953.2	5906.9	5838.3	5769.8	5770.7	5795.0
52.5°	6200.1	6221.2	6295.9	6394.6	6452.0	6493.4	6465.1	6400.7	6317.1	6318.9	6341.1
55°	6593.1	6628.5	6714.1	6848.0	6954.9	7070.9	7104.1	7102.1	7051.6	7065.8	7087.9
57.5°	6783.6	6836.0	6968.1	7179.7	7397.4	7633.2	7832.7	7981.9	8045.4	8141.1	8119.1
60°	6422.8	6506.5	6700.9	7012.3	7442.7	7934.5	8461.7	8976.7	9416.0	9747.6	9557.1
62.5°	5258.8	5367.6	5603.4	6002.6	6653.6	7440.8	8449.5	9667.0	10993.3	11793.5	11222.0
65°	3290.5	3403.4	3643.3	4070.6	4832.5	5811.0	7179.7	9197.3	11675.5	12882.0	11718.8
67.5°	1283.0	1344.5	1474.5	1747.6	2320.1	3190.7	4564.4	6854.2	9818.1	10875.3	9635.7
70°	642.9	649.0	673.2	723.7	846.6	1099.5	1673.0	3177.7	5630.7	6800.8	5428.1
72.5°	464.7	465.6	477.7	499.8	539.3	595.7	704.5	972.5	1831.3	2798.7	1716.3
75°	355.8	359.9	366.9	378.9	400.1	428.3	467.6	560.4	694.4	805.2	677.2
77.5°	274.2	282.2	287.2	298.2	311.4	330.5	341.6	376.8	438.5	461.5	454.5
80°	208.6	215.7	226.7	235.9	244.9	254.0	250.0	266.1	298.2	317.6	307.4
82.5°	132.9	141.2	173.4	181.4	185.4	191.5	184.4	185.4	199.6	211.6	199.6
85°	85.7	90.6	109.9	120.0	120.9	125.0	121.9	115.0	115.0	104.8	117.9
87.5°	39.3	40.3	49.3	58.5	60.5	54.3	53.4	51.5	41.3	39.3	42.3
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°	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9
2.5°	2433.9	2435.9	2436.9	2439.9	2441.0	2441.0	2442.0	2444.0
5°	2453.0	2456.1	2457.0	2461.0	2462.1	2461.0	2463.2	2464.1
7.5°	2487.2	2492.3	2494.4	2498.4	2495.3	2499.4	2500.4	2500.4
10°	2537.7	2542.7	2543.7	2547.8	2545.7	2547.8	2547.8	2545.7
12.5°	2604.1	2605.3	2602.2	2605.3	2601.2	2603.2	2600.1	2598.2
15°	2677.8	2674.8	2667.6	2667.6	2661.7	2662.7	2661.7	2660.6
17.5°	2749.4	2743.2	2738.3	2736.1	2731.1	2730.2	2727.2	2727.2
20°	2828.0	2824.9	2821.8	2817.9	2812.9	2807.8	2806.8	2808.8
22.5°	2922.6	2921.6	2921.6	2919.6	2912.6	2907.5	2904.5	2904.5
25°	3049.7	3040.7	3040.7	3039.5	3036.5	3033.5	3027.5	3030.5
27.5°	3192.8	3187.7	3191.8	3190.7	3187.7	3187.7	3183.8	3183.8
30°	3369.2	3367.0	3373.1	3368.1	3358.0	3357.1	3353.1	3348.0
32.5°	3572.6	3570.8	3579.7	3573.6	3557.6	3548.6	3540.5	3536.4
35°	3799.6	3800.5	3811.6	3807.6	3789.4	3783.3	3769.3	3767.2
37.5°	4047.5	4063.6	4082.6	4086.7	4071.6	4067.5	4052.4	4044.3
40°	4338.6	4359.8	4389.1	4396.0	4380.0	4376.9	4355.8	4344.7
42.5°	4649.1	4685.3	4721.6	4727.7	4711.5	4695.4	4675.3	4667.2
45°	4995.7	5039.1	5086.5	5098.5	5074.3	5055.2	5029.0	5029.0
47.5°	5384.8	5439.1	5492.5	5525.8	5503.6	5483.6	5452.4	5432.1
50°	5844.4	5918.9	5988.5	6022.6	5987.5	5949.1	5894.7	5876.6
52.5°	6420.7	6501.5	6561.8	6543.8	6489.4	6435.8	6376.4	6352.3
55°	7156.4	7183.7	7183.7	7115.1	7006.3	6916.6	6822.9	6791.6
57.5°	8076.7	7971.7	7810.6	7605.9	7349.0	7125.3	6974.1	6902.5
60°	9158.0	8654.1	8084.7	7525.5	7065.8	6686.9	6462.0	6359.3
62.5°	9878.7	8560.4	7419.6	6521.5	5860.5	5403.9	5093.5	4972.6
65°	9232.6	7139.4	5611.5	4537.2	3816.5	3351.9	3044.6	2931.8
67.5°	6762.4	4473.6	2988.2	2141.6	1569.2	1251.7	1125.8	1073.4
70°	3035.6	1575.2	965.5	753.9	650.1	596.7	573.5	565.5
72.5°	915.2	662.1	558.3	503.9	462.5	436.3	417.3	415.2
75°	552.3	459.6	408.2	375.9	349.7	328.5	318.4	315.5
77.5°	386.0	337.7	313.4	290.2	270.1	254.0	244.9	237.8
80°	271.1	247.9	236.9	223.8	210.7	195.6	182.4	176.3
82.5°	181.4	176.3	176.3	168.3	157.3	143.1	116.9	110.9
85°	116.9	115.9	117.9	115.0	106.8	91.6	75.5	71.5
87.5°	54.3	55.4	61.4	60.5	58.5	48.4	38.3	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)