

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: P269366

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269366  
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-06-LED-E1-5NQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 21021.4 lumens  
Efficiency: N/A  
Efficacy: 108.9 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): 193  
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

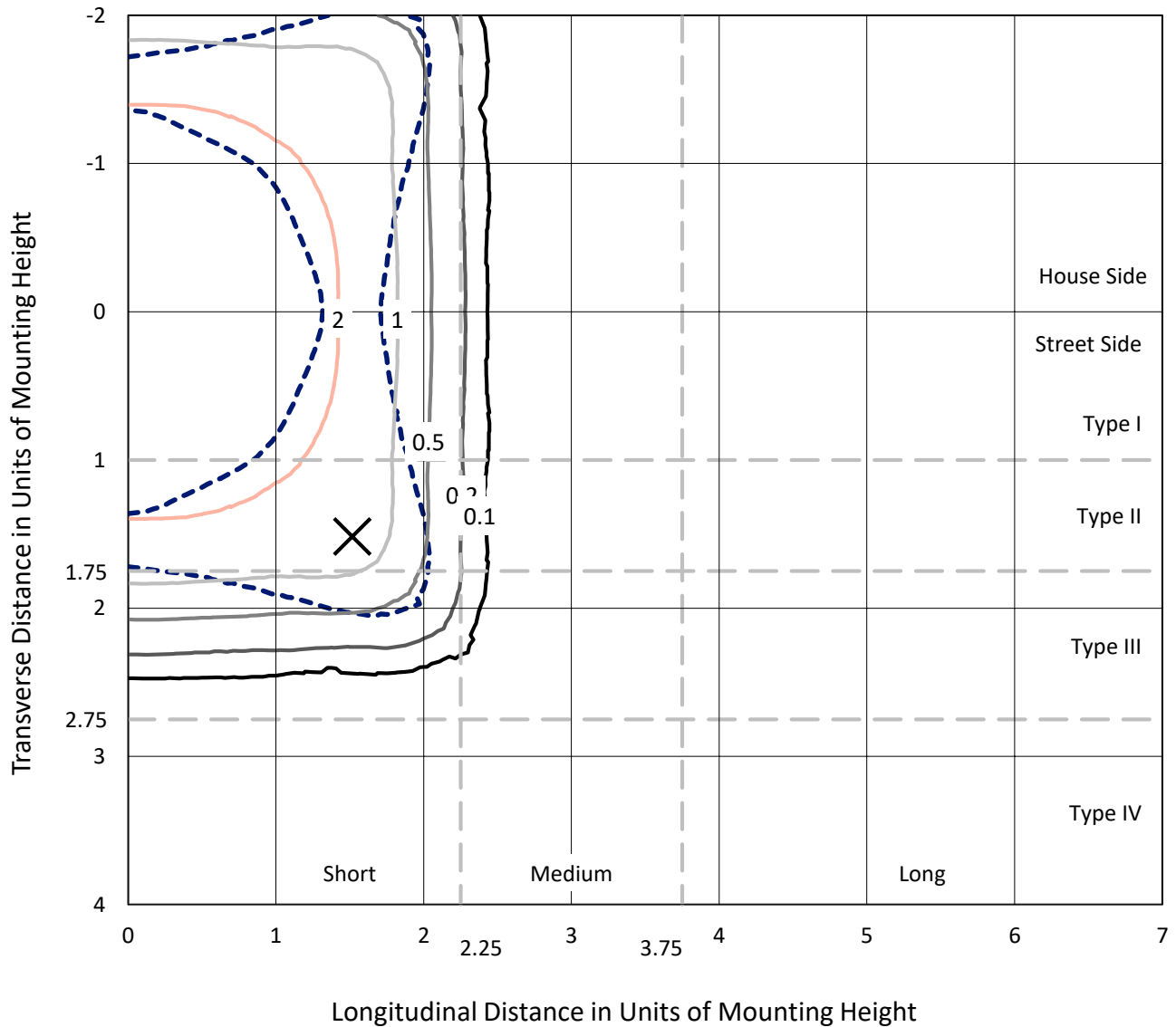


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

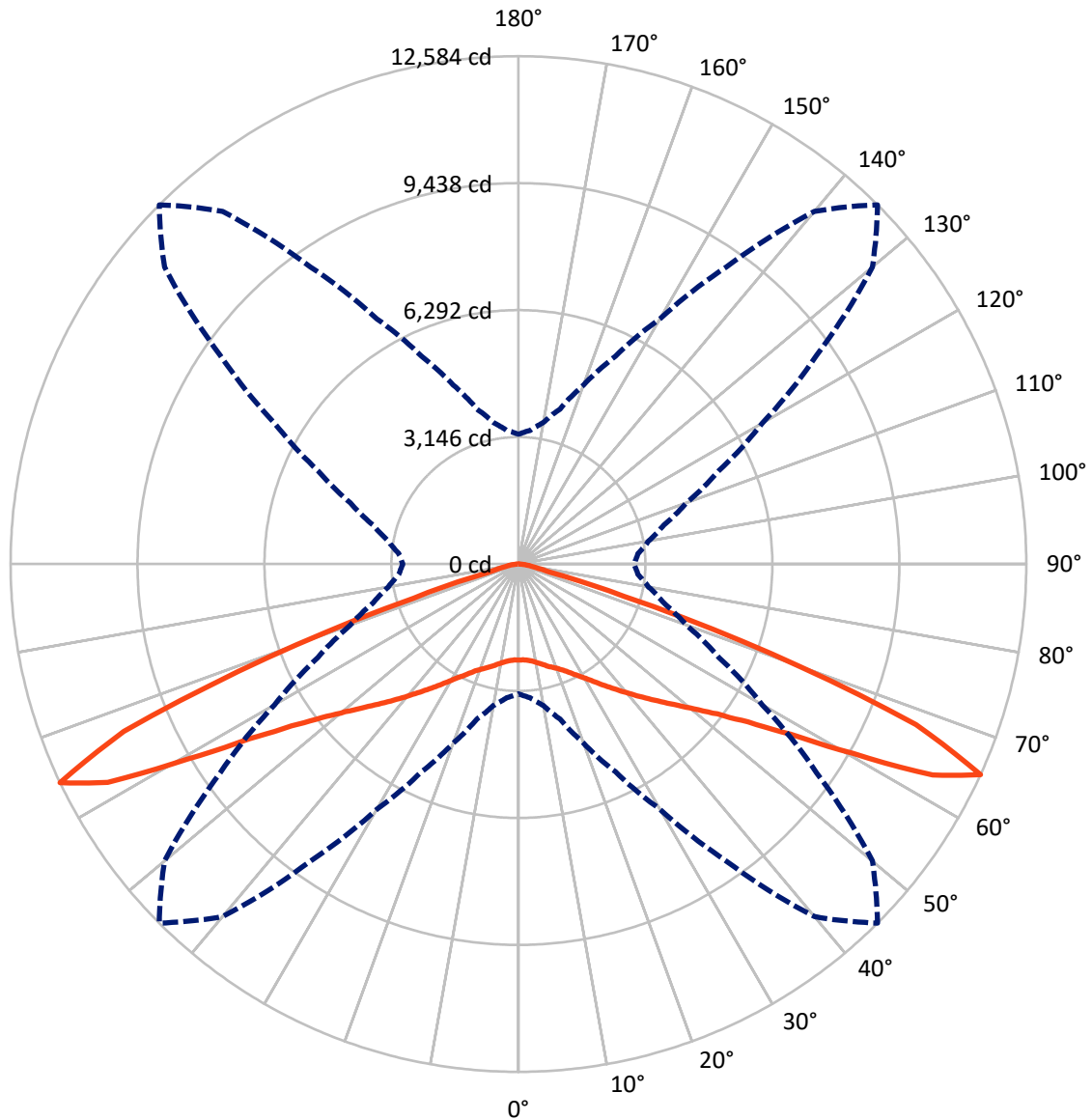


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	10510.7	0.0	10510.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10510.7	0.0	10510.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21021.4	0.0	21021.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.8	1.1
10°-20°	743.5	3.5
20°-30°	1390.3	6.6
30°-40°	2351.3	11.2
40°-50°	3844.7	18.3
50°-60°	6113.7	29.1
60°-70°	5526.3	26.3
70°-80°	699.4	3.3
80°-90°	120.3	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°	21021.4	100.0
0°-180°	21021.4	100.0



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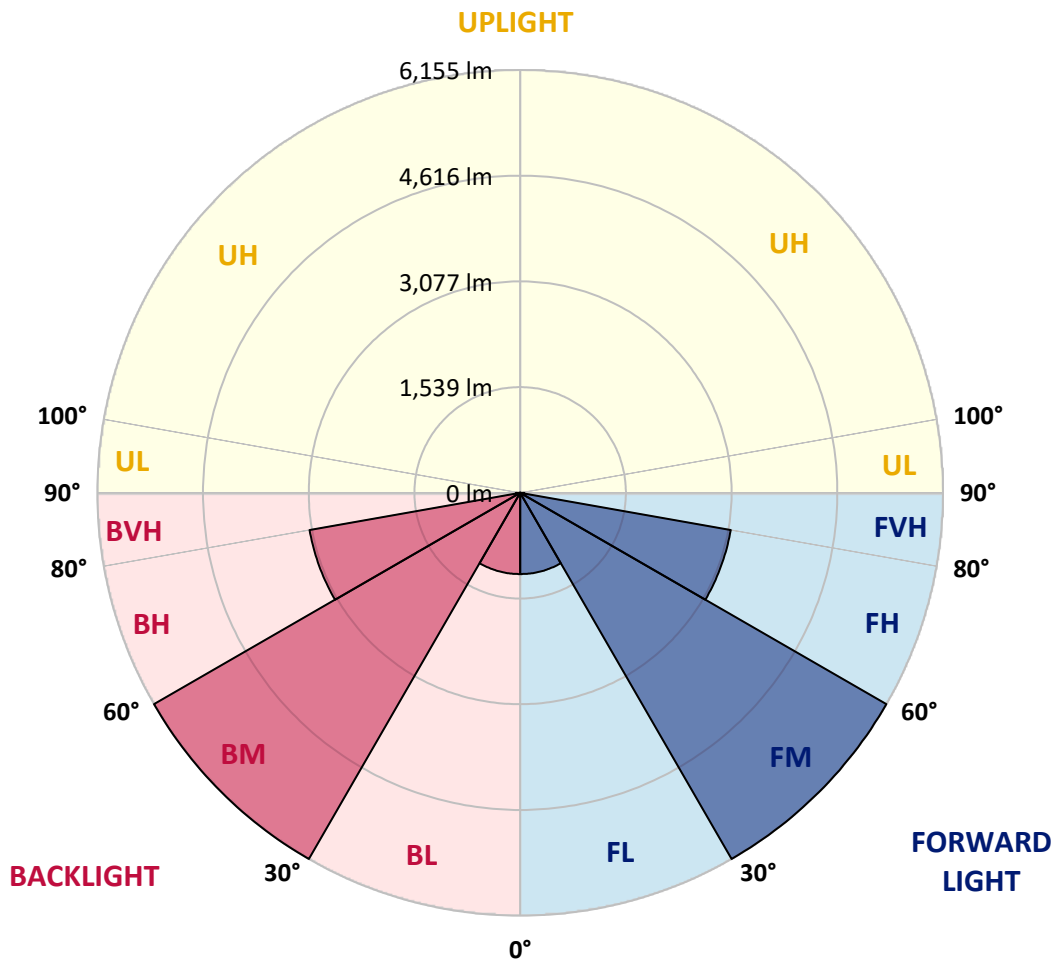
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1182.8	5.6			
FM	(30°-60°)	6154.8	29.3			
FH	(60°-80°)	3112.9	14.8			G2/5000
FVH	(80°-90°)	60.2	0.3			G1/100
BL	(0°-30°)	1182.8	5.6	B3/2500		
BM	(30°-60°)	6154.8	29.3	B4/8500		
BH	(60°-80°)	3112.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	60.2	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°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2380.6	2382.6	2384.6	2382.6	2384.6	2381.5	2379.6	2382.6	2379.6	2376.6	2378.6
5°	2401.2	2402.2	2402.2	2399.3	2402.2	2400.2	2397.2	2401.2	2398.3	2395.3	2397.2
7.5°	2435.7	2439.5	2436.7	2433.7	2435.7	2433.7	2431.7	2432.7	2431.7	2428.7	2429.7
10°	2481.9	2484.9	2482.9	2481.9	2484.0	2482.9	2480.9	2480.0	2480.9	2478.1	2478.1
12.5°	2538.2	2537.2	2536.2	2537.2	2540.0	2540.0	2539.1	2540.0	2542.1	2543.0	2541.0
15°	2593.1	2595.2	2595.2	2595.2	2601.1	2606.1	2608.9	2611.0	2614.8	2615.9	2611.9
17.5°	2662.0	2662.0	2661.0	2662.0	2668.1	2676.0	2678.8	2682.8	2686.7	2689.6	2684.8
20°	2738.9	2740.9	2740.9	2742.9	2750.7	2759.7	2759.7	2761.6	2759.7	2761.6	2758.5
22.5°	2832.4	2838.4	2838.4	2839.4	2847.2	2858.0	2855.2	2858.0	2853.0	2857.1	2853.0
25°	2954.5	2963.4	2961.4	2961.4	2967.3	2974.2	2975.1	2981.0	2980.0	2985.1	2982.2
27.5°	3092.3	3106.1	3110.1	3109.0	3113.0	3120.0	3121.9	3128.7	3124.8	3128.7	3126.8
30°	3257.8	3263.6	3271.5	3274.5	3279.4	3286.3	3286.3	3287.3	3282.3	3288.2	3291.2
32.5°	3429.1	3439.9	3447.8	3465.5	3474.4	3479.2	3478.2	3480.3	3475.4	3483.2	3489.0
35°	3655.6	3663.4	3676.1	3690.0	3701.7	3700.7	3697.9	3698.9	3698.9	3705.7	3711.5
37.5°	3928.2	3930.2	3947.0	3966.6	3972.6	3966.6	3948.9	3944.9	3936.1	3944.9	3954.8
40°	4216.6	4223.6	4257.0	4269.9	4272.8	4262.0	4236.3	4221.6	4201.9	4212.7	4226.5
42.5°	4519.0	4532.7	4563.2	4585.8	4595.6	4588.8	4553.4	4530.7	4505.1	4511.0	4524.9
45°	4853.6	4870.4	4913.6	4935.4	4954.1	4943.3	4908.8	4874.4	4834.0	4837.0	4858.6
47.5°	5227.7	5244.5	5300.5	5337.0	5346.9	5344.9	5306.5	5259.2	5204.2	5202.2	5220.9
50°	5647.1	5664.0	5733.8	5789.9	5818.4	5815.4	5770.3	5703.2	5636.3	5637.4	5660.9
52.5°	6056.7	6077.5	6150.2	6246.8	6302.9	6343.2	6315.7	6252.7	6170.8	6173.0	6194.5
55°	6440.7	6475.2	6558.9	6689.8	6794.2	6907.3	6939.9	6937.9	6888.7	6902.3	6924.0
57.5°	6626.7	6677.9	6806.8	7013.6	7226.3	7456.7	7651.7	7797.3	7859.4	7952.9	7931.2
60°	6274.3	6356.0	6545.9	6850.2	7270.6	7751.0	8265.9	8769.1	9198.3	9522.3	9336.2
62.5°	5137.1	5243.4	5473.9	5863.7	6499.7	7268.6	8254.2	9443.4	10739.1	11520.8	10962.6
65°	3214.4	3324.6	3559.1	3976.4	4720.8	5676.7	7013.6	8984.7	11405.6	12584.0	11447.9
67.5°	1253.2	1313.3	1440.3	1707.1	2266.3	3116.9	4458.8	6695.6	9591.2	10623.9	9412.9
70°	628.2	634.1	657.6	706.8	827.0	1074.2	1634.2	3104.2	5500.4	6643.4	5302.5
72.5°	453.9	454.8	466.7	488.3	526.8	581.8	688.2	950.0	1788.9	2734.0	1676.6
75°	347.6	351.4	358.3	370.2	390.9	418.4	456.8	547.3	678.3	786.6	661.6
77.5°	267.8	275.7	280.6	291.4	304.3	322.9	333.7	368.2	428.2	450.9	444.0
80°	203.7	210.7	221.5	230.3	239.3	248.1	244.2	259.9	291.4	310.2	300.3
82.5°	130.0	137.8	169.3	177.2	181.2	187.0	180.2	181.2	194.9	206.7	194.9
85°	83.7	88.7	107.3	117.1	118.1	122.1	119.1	112.3	112.3	102.3	115.3
87.5°	38.4	39.3	48.2	57.1	59.1	53.2	52.2	50.2	40.3	38.4	41.3
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°	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2377.6	2379.6	2380.6	2383.6	2384.6	2384.6	2385.4	2387.4
5°	2396.3	2399.3	2400.2	2404.1	2405.1	2404.1	2406.1	2407.1
7.5°	2429.7	2434.6	2436.7	2440.7	2437.6	2441.7	2442.6	2442.6
10°	2479.1	2484.0	2484.9	2488.8	2486.9	2488.8	2488.8	2486.9
12.5°	2544.0	2545.0	2542.1	2545.0	2541.0	2543.0	2540.0	2538.2
15°	2615.9	2612.9	2606.1	2606.1	2600.1	2601.1	2600.1	2599.1
17.5°	2685.8	2679.9	2675.0	2672.9	2668.1	2667.1	2664.2	2664.2
20°	2762.6	2759.7	2756.5	2752.6	2747.7	2742.9	2741.8	2743.9
22.5°	2855.2	2854.1	2854.1	2852.1	2845.2	2840.4	2837.3	2837.3
25°	2979.0	2970.2	2970.2	2969.3	2966.4	2963.4	2957.5	2960.5
27.5°	3118.9	3114.1	3117.9	3116.9	3114.1	3114.1	3110.1	3110.1
30°	3291.2	3289.2	3295.2	3290.2	3280.4	3279.4	3275.5	3270.5
32.5°	3490.1	3488.1	3497.0	3491.1	3475.4	3466.5	3458.6	3454.6
35°	3711.5	3712.5	3723.5	3719.5	3701.7	3695.8	3682.1	3680.0
37.5°	3953.8	3969.5	3988.3	3992.2	3977.4	3973.6	3958.7	3950.8
40°	4238.4	4259.0	4287.5	4294.4	4278.6	4275.8	4255.0	4244.2
42.5°	4541.6	4577.0	4612.4	4618.4	4602.6	4586.8	4567.2	4559.3
45°	4880.2	4922.5	4968.9	4980.7	4956.9	4938.3	4912.7	4912.7
47.5°	5260.3	5313.5	5365.5	5398.1	5376.4	5356.8	5326.2	5306.5
50°	5709.2	5782.0	5849.9	5883.4	5849.0	5811.6	5758.4	5740.7
52.5°	6272.3	6351.0	6410.1	6392.3	6339.2	6287.1	6228.9	6205.4
55°	6991.0	7017.6	7017.6	6950.6	6844.4	6756.7	6665.2	6634.6
57.5°	7889.9	7787.4	7629.9	7430.2	7179.1	6960.4	6812.8	6742.9
60°	8946.3	8453.9	7897.8	7351.4	6902.3	6532.2	6312.7	6212.3
62.5°	9650.2	8362.4	7248.0	6370.8	5725.0	5279.0	4975.7	4857.6
65°	9019.2	6974.4	5481.7	4432.2	3728.3	3274.5	2974.2	2863.9
67.5°	6606.0	4370.3	2919.1	2092.2	1532.9	1222.8	1099.6	1048.5
70°	2965.3	1538.7	943.2	736.4	635.0	582.8	560.3	552.3
72.5°	894.0	646.8	545.5	492.2	451.8	426.2	407.7	405.7
75°	539.5	449.0	398.8	367.2	341.6	321.0	311.2	308.2
77.5°	377.1	329.8	306.2	283.5	263.8	248.1	239.3	232.3
80°	264.8	242.3	231.4	218.6	205.7	191.0	178.3	172.2
82.5°	177.2	172.2	172.2	164.4	153.6	139.7	114.3	108.2
85°	114.3	113.2	115.3	112.3	104.4	89.7	73.8	69.9
87.5°	53.2	54.2	60.0	59.1	57.1	47.3	37.4	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)