

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: P190903

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
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-E1-5WQ-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35164 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

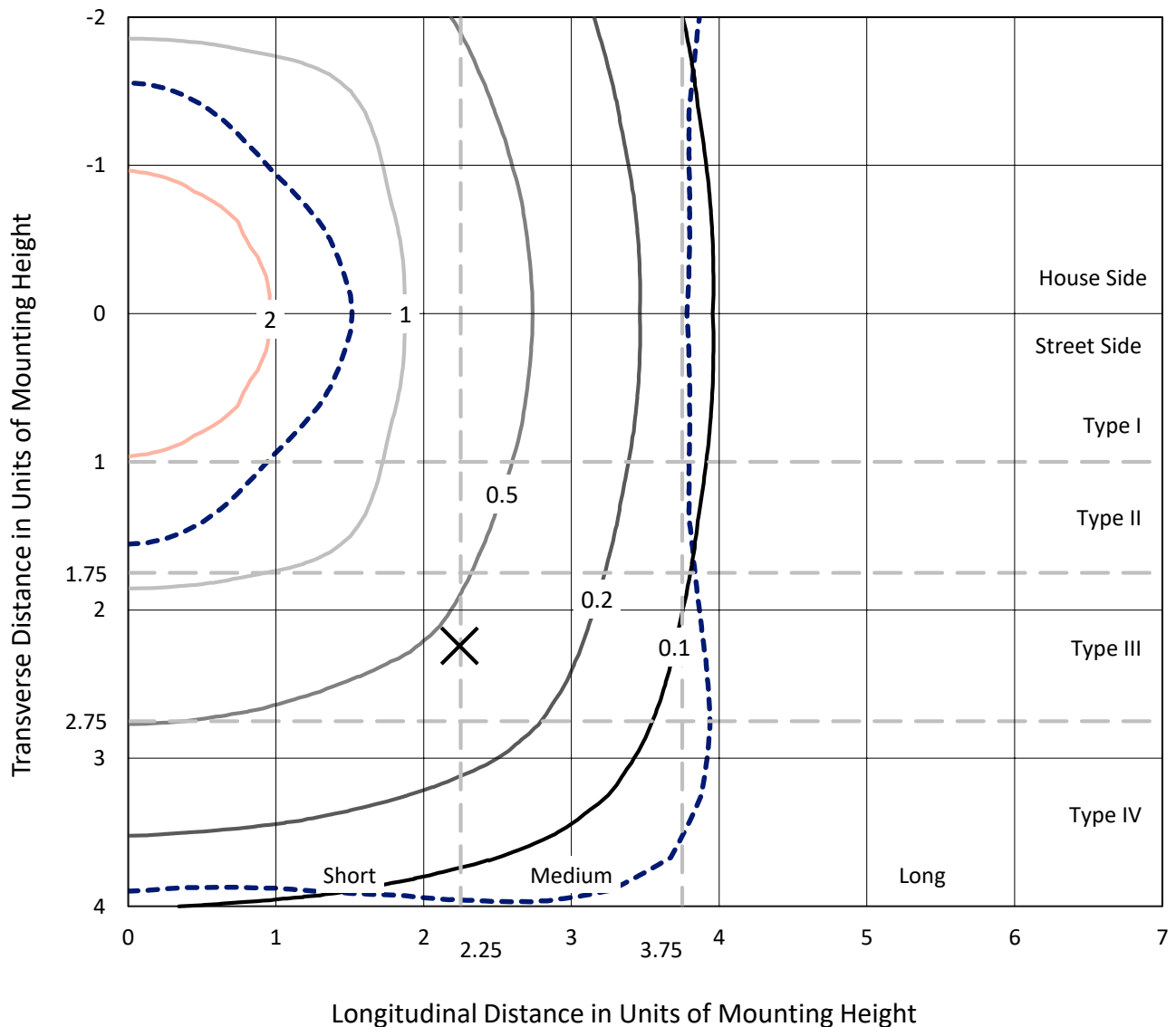
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

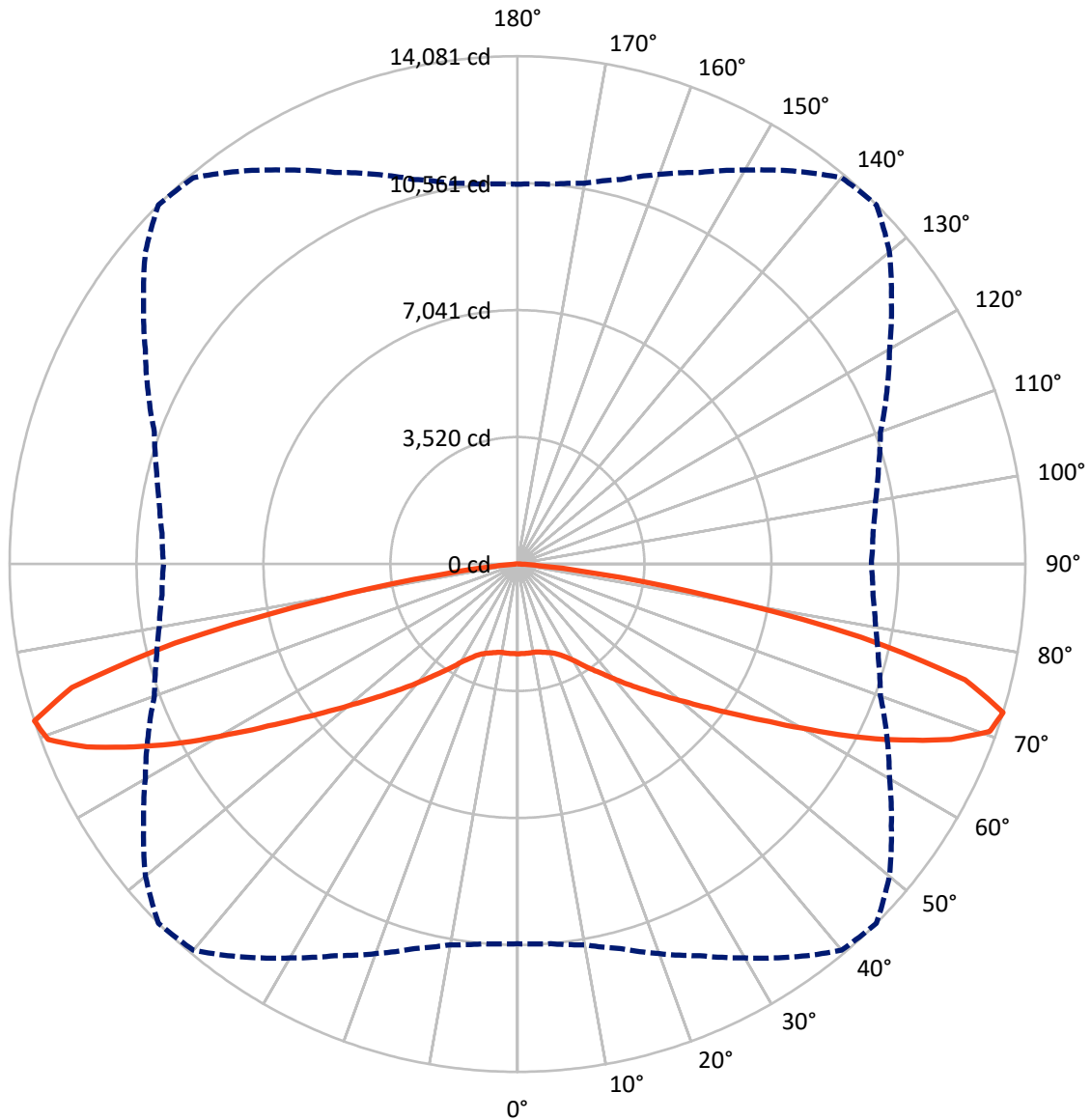
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17582.0	0.0	17582.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17582.0	0.0	17582.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35164.0	0.0	35164.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.8	0.7
10°-20°	722.2	2.1
20°-30°	1319.7	3.8
30°-40°	2275.4	6.5
40°-50°	3889.7	11.1
50°-60°	6304.8	17.9
60°-70°	10459.4	29.7
70°-80°	9212.3	26.2
80°-90°	742.8	2.1
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°	35164.0	100.0
0°-180°	35164.0	100.0



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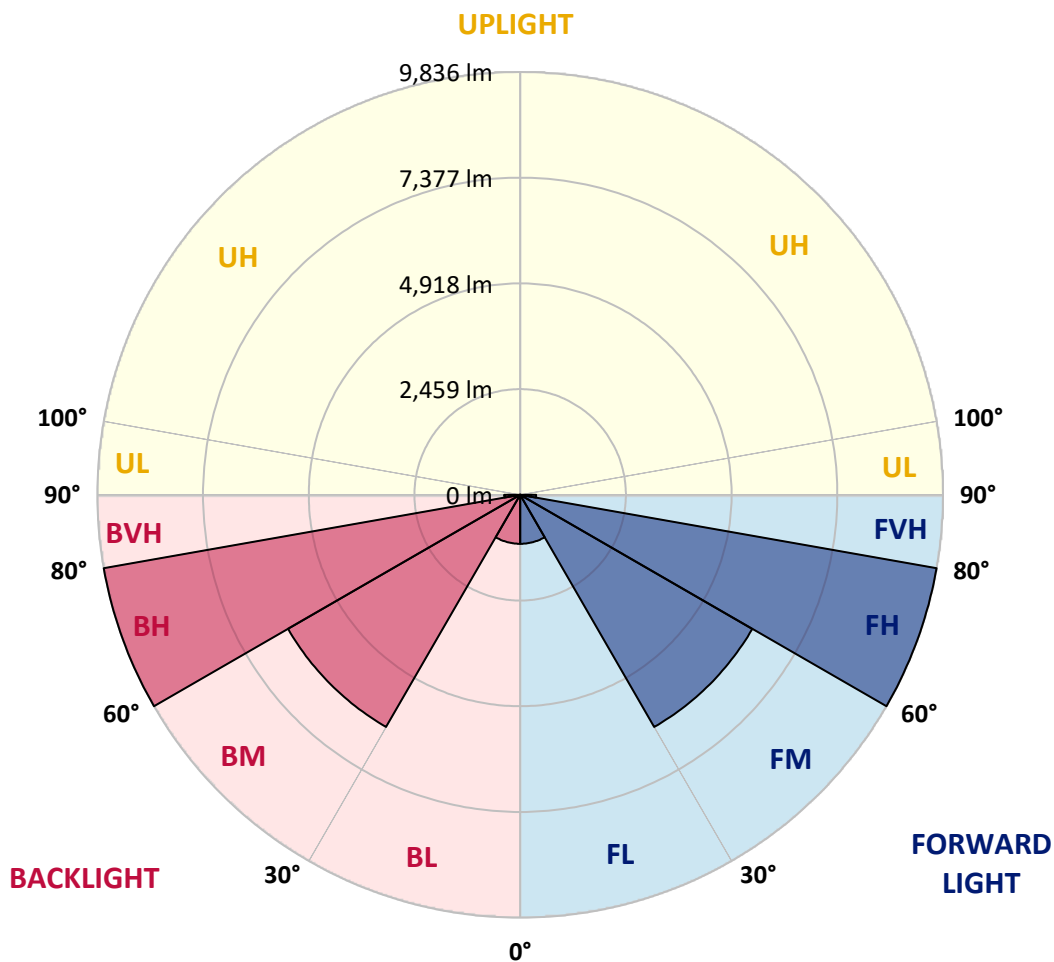
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.8	3.2			
FM	(30°-60°)	6234.9	17.7			
FH	(60°-80°)	9835.8	28.0			G4/12000
FVH	(80°-90°)	371.4	1.1			G3/500
BL	(0°-30°)	1139.8	3.2	B3/2500		
BM	(30°-60°)	6234.9	17.7	B4/8500		
BH	(60°-80°)	9835.8	28.0	B5		G4/12000
BVH	(80°-90°)	371.4	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2
2.5°	2490.2	2491.8	2493.3	2491.8	2491.8	2490.2	2488.5	2490.2	2488.5	2485.4	2486.9
5°	2498.3	2501.4	2501.4	2498.3	2499.8	2498.3	2495.0	2496.6	2493.3	2488.5	2488.5
7.5°	2507.9	2509.5	2509.5	2506.3	2507.9	2504.7	2501.4	2499.8	2496.6	2490.2	2485.4
10°	2522.4	2524.0	2522.4	2519.2	2519.2	2514.3	2506.3	2503.1	2496.6	2486.9	2482.1
12.5°	2538.6	2540.2	2538.6	2535.3	2533.7	2525.7	2519.2	2514.3	2509.5	2501.4	2493.3
15°	2561.2	2564.3	2561.2	2554.6	2549.8	2543.4	2540.2	2541.7	2543.4	2536.9	2528.8
17.5°	2603.0	2604.6	2599.8	2585.3	2578.9	2572.4	2572.4	2575.6	2580.5	2577.2	2569.1
20°	2680.4	2675.6	2664.4	2646.6	2638.5	2627.2	2625.6	2627.2	2627.2	2625.6	2619.2
22.5°	2777.2	2774.0	2759.5	2736.9	2725.7	2719.2	2709.5	2701.4	2699.8	2695.0	2688.5
25°	2893.3	2891.8	2874.0	2854.6	2846.6	2838.5	2830.4	2819.2	2809.5	2798.2	2791.7
27.5°	3041.7	3035.3	3009.5	2999.8	2988.6	2983.6	2972.4	2959.5	2951.4	2936.9	2928.8
30°	3204.6	3204.6	3183.6	3180.5	3180.5	3169.1	3156.2	3133.7	3119.2	3104.7	3099.7
32.5°	3367.6	3369.1	3348.1	3354.6	3359.5	3367.6	3370.7	3362.6	3353.0	3351.4	3341.7
35°	3602.9	3596.5	3575.5	3580.4	3578.8	3577.2	3577.2	3595.0	3598.1	3601.4	3582.0
37.5°	3894.9	3894.9	3873.9	3873.9	3864.3	3854.6	3841.7	3852.9	3870.7	3875.6	3862.7
40°	4228.8	4240.0	4214.3	4212.6	4215.9	4185.2	4170.7	4188.5	4199.7	4219.1	4204.5
42.5°	4622.3	4614.2	4588.4	4585.2	4567.5	4557.8	4544.9	4559.4	4577.1	4590.0	4594.9
45°	4999.7	4993.2	4964.2	4964.2	4946.5	4938.4	4944.8	4969.0	4977.1	4994.9	5012.6
47.5°	5372.2	5364.1	5344.8	5352.9	5354.4	5369.0	5389.9	5412.5	5435.1	5459.3	5467.4
50°	5752.9	5754.4	5733.4	5752.9	5777.0	5817.3	5873.8	5910.9	5957.7	5988.3	5998.0
52.5°	6099.5	6106.0	6128.6	6173.8	6222.2	6301.2	6397.9	6488.3	6565.7	6617.3	6614.1
55°	6515.7	6525.4	6580.2	6657.6	6736.6	6856.0	6999.5	7159.2	7288.2	7362.4	7315.6
57.5°	7047.9	7068.9	7130.2	7235.0	7352.8	7507.5	7704.4	7944.6	8144.6	8244.6	8168.8
60°	7778.5	7791.4	7865.6	7981.7	8123.7	8315.6	8578.5	8901.0	9183.2	9315.5	9228.4
62.5°	8741.3	8765.6	8825.2	8942.9	9088.1	9305.8	9626.8	10029.9	10381.5	10565.4	10368.6
65°	9891.2	9968.7	10018.7	10138.1	10273.5	10504.2	10839.6	11271.8	11649.2	11770.2	11542.8
67.5°	11029.9	11097.6	11184.7	11321.8	11458.9	11718.5	12029.8	12449.1	12863.6	12973.3	12620.1
70°	11528.2	11566.9	11702.5	11889.6	12152.3	12458.8	12818.5	13289.5	13802.3	13892.6	13444.2
72.5°	10529.9	10568.6	10720.2	11037.9	11496.0	11983.1	12610.4	13302.4	13979.6	14081.3	13463.6
75°	7964.0	7901.1	8125.3	8546.2	9163.9	9842.8	10720.2	11712.1	12691.0	12818.5	12081.5
77.5°	4115.8	4107.8	4277.2	4799.7	5536.7	6309.3	7275.3	8396.2	9354.2	9741.3	9141.3
80°	1159.6	1172.5	1253.1	1512.8	1943.4	2501.4	3256.3	4306.1	5090.0	5490.0	5154.4
82.5°	454.8	490.3	520.9	569.3	625.7	708.0	945.1	1406.4	1886.9	2254.7	1846.6
85°	162.9	174.2	246.7	292.0	296.8	312.9	356.4	416.1	501.6	598.3	491.9
87.5°	61.3	67.7	79.1	130.6	129.0	117.7	143.5	150.0	112.9	103.2	127.5
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°	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2	2490.2
2.5°	2483.7	2485.4	2485.4	2486.9	2488.5	2488.5	2491.8	2491.8
5°	2485.4	2485.4	2482.1	2483.7	2482.1	2482.1	2483.7	2483.7
7.5°	2482.1	2480.5	2477.3	2475.6	2472.4	2472.4	2472.4	2472.4
10°	2477.3	2475.6	2472.4	2470.8	2469.2	2469.2	2469.2	2469.2
12.5°	2490.2	2485.4	2482.1	2480.5	2480.5	2480.5	2480.5	2480.5
15°	2524.0	2512.8	2504.7	2504.7	2506.3	2509.5	2509.5	2512.8
17.5°	2566.0	2553.1	2545.0	2538.6	2541.7	2546.6	2549.8	2553.1
20°	2616.0	2609.5	2598.2	2591.7	2591.7	2598.2	2601.5	2603.0
22.5°	2685.3	2680.4	2675.6	2667.5	2667.5	2670.8	2677.3	2677.3
25°	2788.6	2785.3	2782.1	2775.6	2774.0	2774.0	2777.2	2780.5
27.5°	2917.6	2919.2	2915.9	2914.3	2909.5	2907.8	2912.8	2911.1
30°	3090.1	3098.2	3106.2	3099.7	3091.8	3086.9	3082.0	3075.6
32.5°	3324.0	3314.3	3307.8	3296.6	3282.0	3269.1	3259.4	3248.2
35°	3544.9	3528.8	3522.3	3532.0	3530.4	3522.3	3511.1	3501.4
37.5°	3815.9	3812.6	3815.9	3833.6	3830.3	3838.4	3815.9	3814.3
40°	4157.8	4161.1	4183.6	4204.5	4215.9	4227.1	4214.3	4201.4
42.5°	4554.5	4552.9	4560.9	4590.0	4609.3	4622.3	4594.9	4591.6
45°	4973.9	4962.5	4969.0	4993.2	5012.6	5027.1	4996.4	4996.4
47.5°	5435.1	5415.8	5394.8	5422.3	5433.5	5443.2	5419.0	5410.9
50°	5949.6	5909.3	5864.1	5875.4	5875.4	5872.1	5841.6	5839.9
52.5°	6539.8	6465.7	6383.4	6352.8	6335.0	6315.7	6262.5	6236.6
55°	7218.9	7107.6	6978.6	6899.5	6857.6	6804.4	6715.7	6691.4
57.5°	8012.4	7838.2	7615.6	7518.9	7425.3	7338.2	7239.8	7212.4
60°	8952.7	8696.2	8401.1	8222.1	8120.4	8036.5	7934.9	7930.1
62.5°	10001.0	9596.1	9262.3	9101.0	9026.8	8952.7	8855.9	8868.8
65°	11067.0	10644.4	10331.6	10201.0	10131.6	10070.2	9973.5	9988.0
67.5°	12118.5	11729.9	11386.4	11252.5	11175.0	11097.6	11010.5	11025.1
70°	12873.3	12391.1	12004.0	11707.3	11521.8	11312.1	11176.7	11142.8
72.5°	12657.2	11913.7	11299.2	10710.6	10365.5	10084.8	9894.5	9812.2
75°	10954.1	9938.1	9147.7	8425.2	8018.8	7688.2	7447.9	7297.9
77.5°	8134.9	6993.1	6059.2	5227.1	4569.0	4127.1	3815.9	3614.3
80°	4452.9	3386.9	2475.6	1740.2	1279.0	1062.8	938.7	879.0
82.5°	1387.0	895.1	659.6	569.3	529.0	506.5	469.3	409.7
85°	441.9	387.1	359.7	343.5	327.4	285.5	196.7	179.0
87.5°	170.9	175.8	174.2	164.5	167.8	120.9	96.8	85.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)