

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: P193444

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193444
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-06-LED-E1-5WQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 33567 lumens
Efficiency: N/A
Efficacy: 87.9 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): 382
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

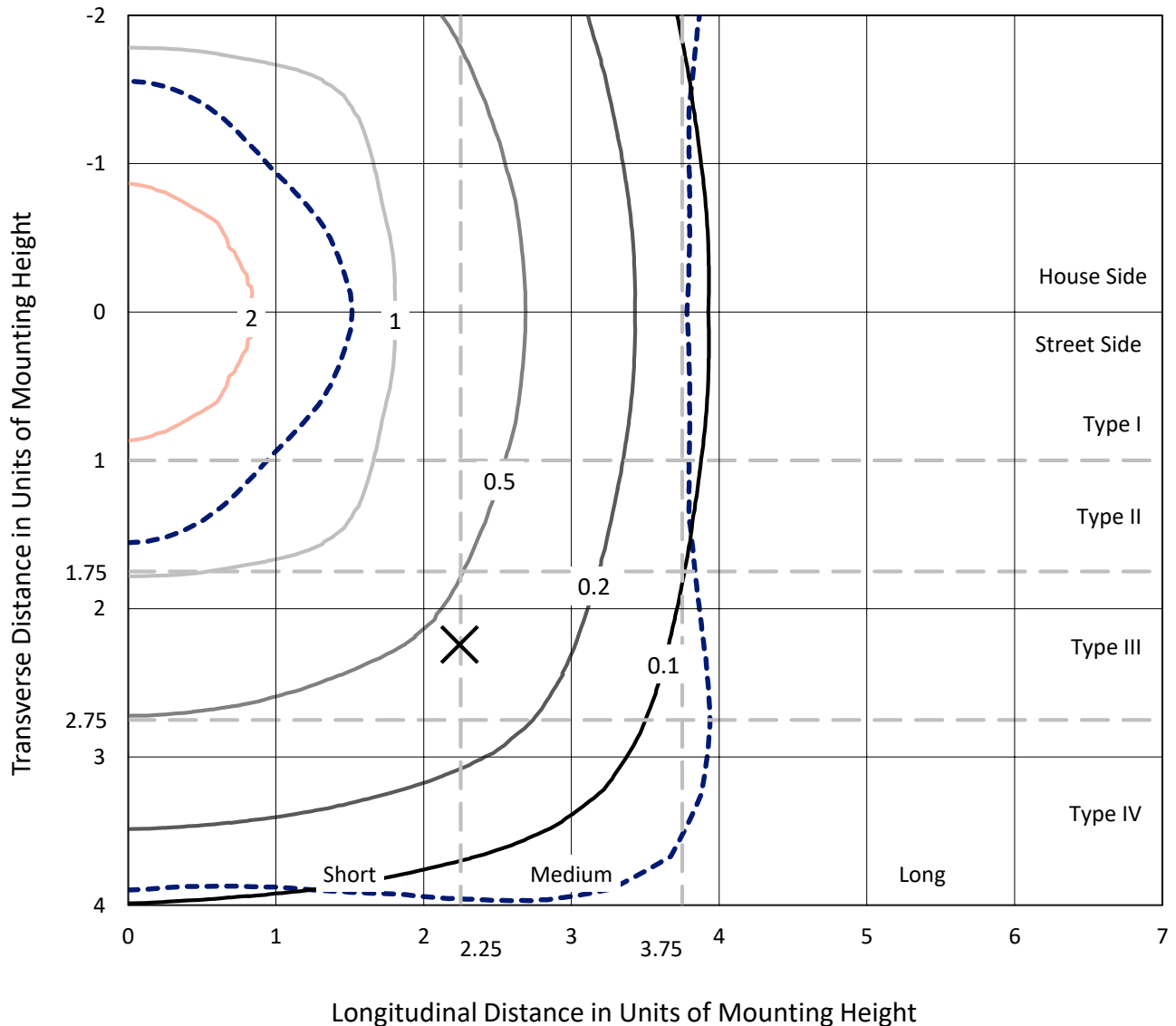


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

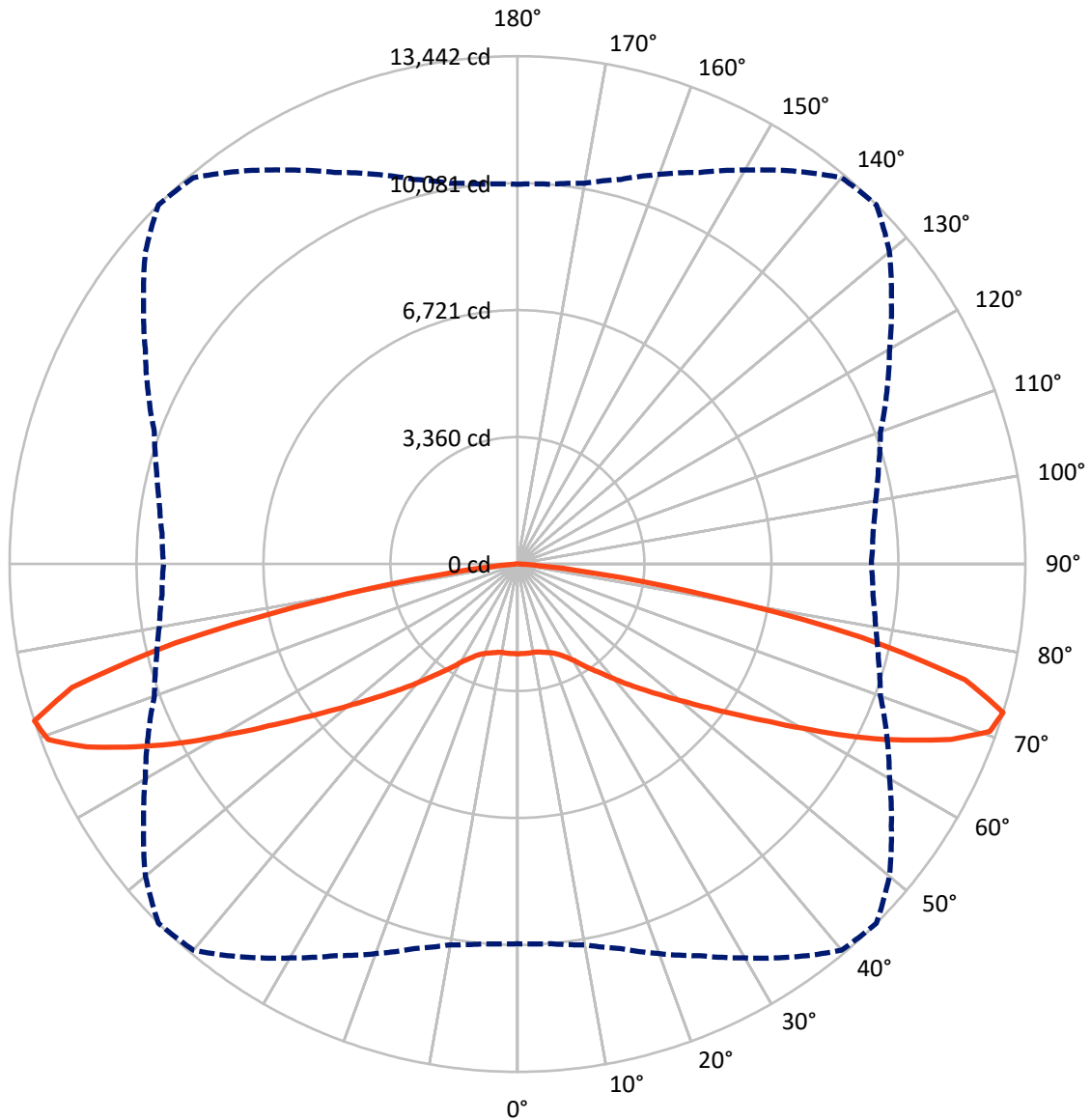


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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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
House Side	Lumens	16783.5	0.0	16783.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16783.5	0.0	16783.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33567.0	0.0	33567.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	0.7
10°-20°	689.4	2.1
20°-30°	1259.8	3.8
30°-40°	2172.0	6.5
40°-50°	3713.1	11.1
50°-60°	6018.4	17.9
60°-70°	9984.4	29.7
70°-80°	8793.9	26.2
80°-90°	709.0	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°	33567.0	100.0
0°-180°	33567.0	100.0



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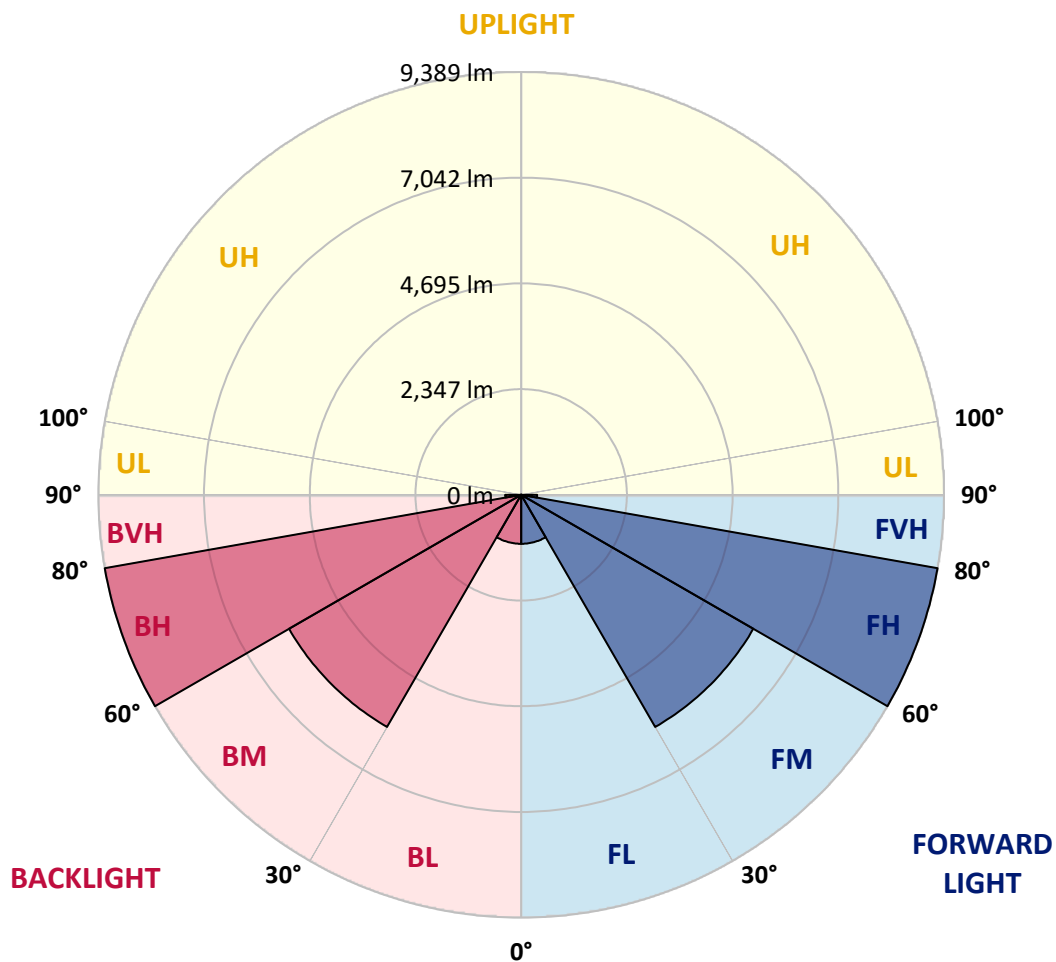
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.1	3.2			
FM	(30°-60°)	5951.8	17.7			
FH	(60°-80°)	9389.1	28.0			G4/12000
FVH	(80°-90°)	354.5	1.1			G3/500
BL	(0°-30°)	1088.1	3.2	B3/2500		
BM	(30°-60°)	5951.8	17.7	B4/8500		
BH	(60°-80°)	9389.1	28.0	B5		G4/12000
BVH	(80°-90°)	354.5	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°	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1
2.5°	2377.1	2378.6	2380.1	2378.6	2378.6	2377.1	2375.5	2377.1	2375.5	2372.4	2374.0
5°	2384.8	2387.8	2387.8	2384.8	2386.3	2384.8	2381.7	2383.2	2380.1	2375.5	2375.5
7.5°	2394.0	2395.5	2395.5	2392.5	2394.0	2390.9	2387.8	2386.3	2383.2	2377.1	2372.4
10°	2407.9	2409.4	2407.9	2404.8	2404.8	2400.2	2392.5	2389.4	2383.2	2374.0	2369.4
12.5°	2423.3	2424.8	2423.3	2420.2	2418.6	2410.9	2404.8	2400.2	2395.5	2387.8	2380.1
15°	2444.8	2447.9	2444.8	2438.6	2434.0	2427.9	2424.8	2426.3	2427.9	2421.7	2414.0
17.5°	2484.8	2486.4	2481.8	2467.9	2461.7	2455.6	2455.6	2458.7	2463.3	2460.2	2452.5
20°	2558.7	2554.1	2543.3	2526.4	2518.7	2507.9	2506.4	2507.9	2507.9	2506.4	2500.2
22.5°	2651.1	2648.0	2634.2	2612.6	2601.8	2595.7	2586.4	2578.7	2577.2	2572.6	2566.4
25°	2762.0	2760.4	2743.5	2725.0	2717.3	2709.6	2701.9	2691.1	2681.9	2671.1	2665.0
27.5°	2903.6	2897.4	2872.8	2863.6	2852.8	2848.2	2837.4	2825.1	2817.4	2803.5	2795.8
30°	3059.1	3059.1	3039.1	3036.0	3036.0	3025.2	3012.9	2991.3	2977.5	2963.6	2959.0
32.5°	3214.6	3216.1	3196.1	3202.3	3206.9	3214.6	3217.7	3210.0	3200.7	3199.2	3189.9
35°	3439.4	3433.2	3413.2	3417.8	3416.3	3414.7	3414.7	3431.7	3434.7	3437.8	3419.3
37.5°	3718.0	3718.0	3698.0	3698.0	3688.8	3679.5	3667.2	3678.0	3694.9	3699.5	3687.2
40°	4036.7	4047.5	4022.8	4021.3	4024.4	3995.1	3981.3	3998.2	4009.0	4027.5	4013.6
42.5°	4412.4	4404.7	4380.0	4376.9	4360.0	4350.8	4338.5	4352.3	4369.2	4381.6	4386.2
45°	4772.6	4766.4	4738.7	4738.7	4721.8	4714.1	4720.3	4743.4	4751.1	4768.0	4784.9
47.5°	5128.2	5120.5	5102.1	5109.8	5111.3	5125.2	5145.2	5166.7	5188.3	5211.4	5219.1
50°	5491.6	5493.1	5473.1	5491.6	5514.7	5553.2	5607.0	5642.5	5687.1	5716.3	5725.6
52.5°	5822.6	5828.7	5850.3	5893.4	5939.6	6015.0	6107.4	6193.6	6267.5	6316.8	6313.7
55°	6219.8	6229.0	6281.4	6355.3	6430.7	6544.6	6681.6	6834.1	6957.2	7028.0	6983.4
57.5°	6727.8	6747.8	6806.4	6906.4	7018.8	7166.6	7354.4	7583.8	7774.7	7870.2	7797.8
60°	7425.2	7437.6	7508.4	7619.2	7754.7	7937.9	8188.9	8496.8	8766.2	8892.4	8809.3
62.5°	8344.4	8367.5	8424.4	8536.8	8675.4	8883.2	9189.6	9574.5	9910.1	10085.6	9897.8
65°	9442.1	9516.0	9563.7	9677.6	9806.9	10027.1	10347.3	10759.9	11120.2	11235.6	11018.6
67.5°	10529.0	10593.6	10676.8	10807.6	10938.5	11186.4	11483.5	11883.8	12279.4	12384.1	12047.0
70°	11004.7	11041.7	11171.0	11349.6	11600.5	11893.0	12236.3	12685.9	13175.5	13261.7	12833.7
72.5°	10051.7	10088.7	10233.4	10536.7	10973.9	11438.9	12037.7	12698.2	13344.8	13441.8	12852.2
75°	7602.3	7542.3	7756.3	8158.1	8747.7	9395.9	10233.4	11180.2	12114.7	12236.3	11532.8
77.5°	3928.9	3921.2	4082.9	4581.7	5285.3	6022.7	6944.9	8014.9	8929.4	9298.9	8726.2
80°	1106.9	1119.3	1196.2	1444.1	1855.2	2387.8	3108.4	4110.6	4858.8	5240.6	4920.4
82.5°	434.2	468.0	497.3	543.5	597.3	675.9	902.2	1342.5	1801.3	2152.3	1762.8
85°	155.5	166.3	235.6	278.7	283.3	298.7	340.2	397.2	478.8	571.2	469.6
87.5°	58.5	64.7	75.4	124.7	123.2	112.4	137.0	143.2	107.8	98.5	121.6
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°	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1	2377.1
2.5°	2370.9	2372.4	2372.4	2374.0	2375.5	2375.5	2378.6	2378.6
5°	2372.4	2372.4	2369.4	2370.9	2369.4	2369.4	2370.9	2370.9
7.5°	2369.4	2367.8	2364.7	2363.2	2360.1	2360.1	2360.1	2360.1
10°	2364.7	2363.2	2360.1	2358.6	2357.1	2357.1	2357.1	2357.1
12.5°	2377.1	2372.4	2369.4	2367.8	2367.8	2367.8	2367.8	2367.8
15°	2409.4	2398.6	2390.9	2390.9	2392.5	2395.5	2395.5	2398.6
17.5°	2449.4	2437.1	2429.4	2423.3	2426.3	2430.9	2434.0	2437.1
20°	2497.1	2491.0	2480.2	2474.1	2474.1	2480.2	2483.3	2484.8
22.5°	2563.4	2558.7	2554.1	2546.4	2546.4	2549.5	2555.7	2555.7
25°	2661.9	2658.8	2655.7	2649.6	2648.0	2648.0	2651.1	2654.2
27.5°	2785.0	2786.6	2783.5	2782.0	2777.3	2775.8	2780.4	2778.9
30°	2949.8	2957.5	2965.2	2959.0	2951.3	2946.7	2942.1	2935.9
32.5°	3173.0	3163.8	3157.6	3146.8	3133.0	3120.7	3111.4	3100.7
35°	3383.9	3368.5	3362.4	3371.6	3370.1	3362.4	3351.6	3342.4
37.5°	3642.6	3639.5	3642.6	3659.5	3656.4	3664.1	3642.6	3641.0
40°	3969.0	3972.0	3993.6	4013.6	4024.4	4035.2	4022.8	4010.5
42.5°	4347.7	4346.1	4353.8	4381.6	4400.0	4412.4	4386.2	4383.1
45°	4748.0	4737.2	4743.4	4766.4	4784.9	4798.8	4769.5	4769.5
47.5°	5188.3	5169.8	5149.8	5176.0	5186.7	5196.0	5172.9	5165.2
50°	5679.4	5640.9	5597.8	5608.6	5608.6	5605.5	5576.2	5574.7
52.5°	6242.9	6172.1	6093.5	6064.3	6047.4	6028.9	5978.1	5953.4
55°	6891.0	6784.8	6661.6	6586.2	6546.2	6495.4	6410.7	6387.6
57.5°	7648.5	7482.2	7269.8	7177.4	7088.1	7005.0	6911.0	6884.9
60°	8546.0	8301.3	8019.5	7848.6	7751.6	7671.6	7574.6	7570.0
62.5°	9546.7	9160.3	8841.6	8687.7	8616.9	8546.0	8453.7	8466.0
65°	10564.4	10161.0	9862.4	9737.7	9671.5	9612.9	9520.6	9534.4
67.5°	11568.2	11197.1	10869.2	10741.4	10667.5	10593.6	10510.5	10524.4
70°	12288.7	11828.4	11458.9	11175.6	10998.5	10798.4	10669.1	10636.8
72.5°	12082.4	11372.7	10786.1	10224.2	9894.7	9626.8	9445.1	9366.6
75°	10456.6	9486.7	8732.3	8042.6	7654.6	7339.0	7109.6	6966.5
77.5°	7765.5	6675.5	5784.1	4989.7	4361.5	3939.7	3642.6	3450.1
80°	4250.7	3233.1	2363.2	1661.2	1220.9	1014.6	896.0	839.1
82.5°	1324.0	854.5	629.7	543.5	505.0	483.4	448.0	391.0
85°	421.8	369.5	343.3	327.9	312.5	272.5	187.8	170.9
87.5°	163.2	167.8	166.3	157.0	160.1	115.5	92.4	81.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)