

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: P190876

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190876
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-08-LED-E1-5WQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33865.8 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

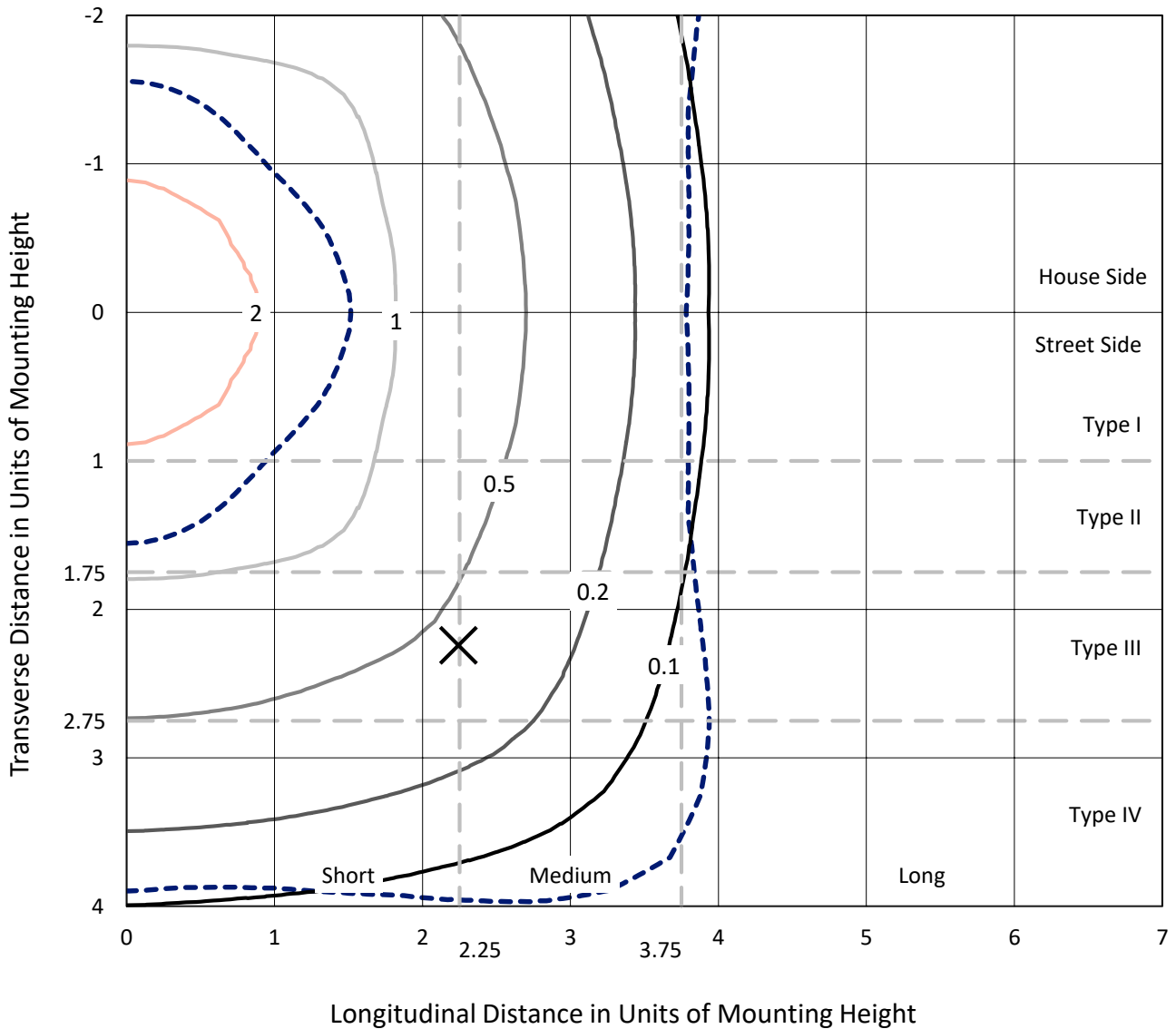
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

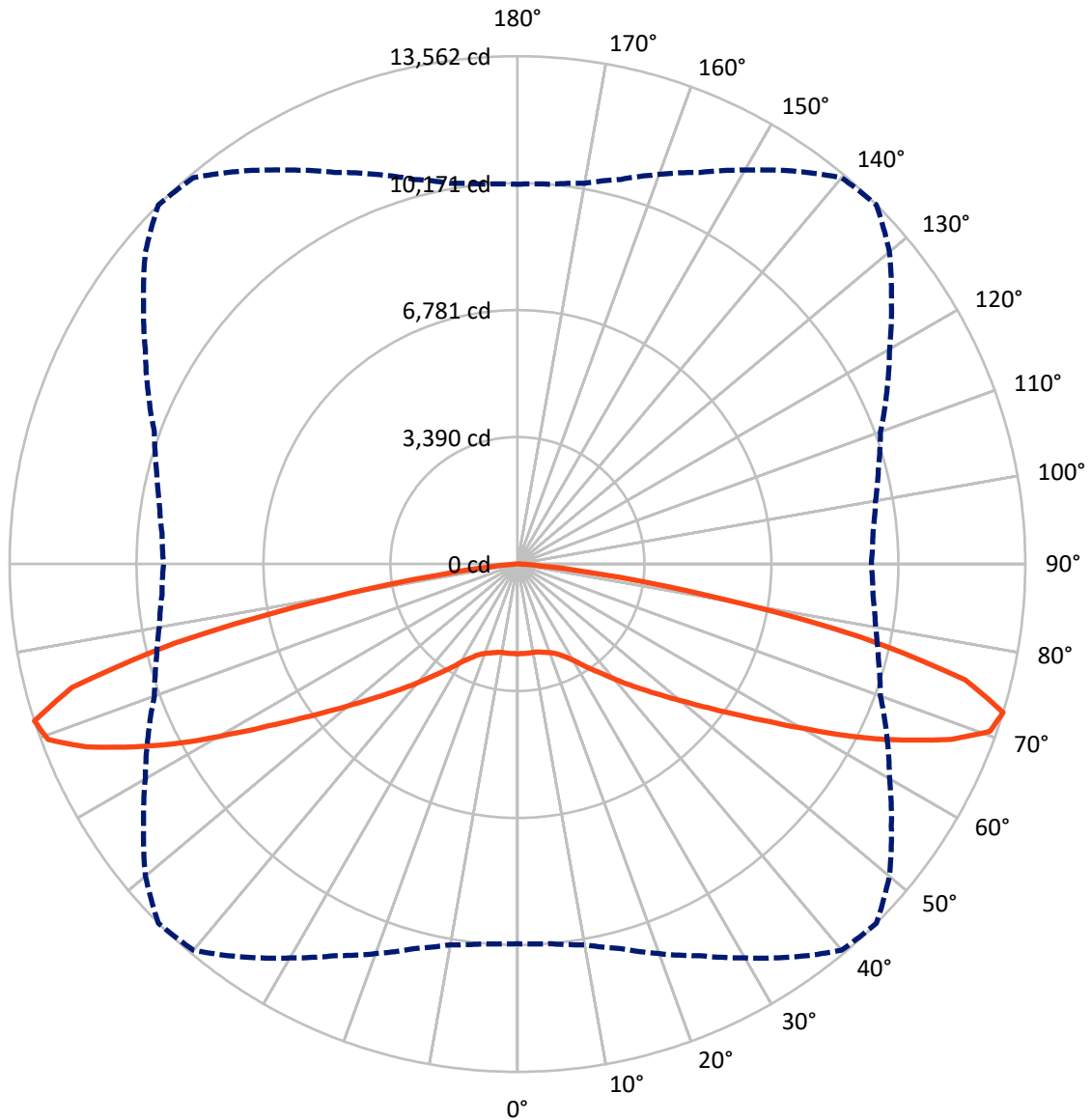
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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	16932.9	0.0	16932.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16932.9	0.0	16932.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	33865.8	0.0	33865.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	0.7
10°-20°	695.5	2.1
20°-30°	1271.0	3.8
30°-40°	2191.4	6.5
40°-50°	3746.1	11.1
50°-60°	6072.0	17.9
60°-70°	10073.3	29.7
70°-80°	8872.2	26.2
80°-90°	715.3	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°	33865.8	100.0
0°-180°	33865.8	100.0



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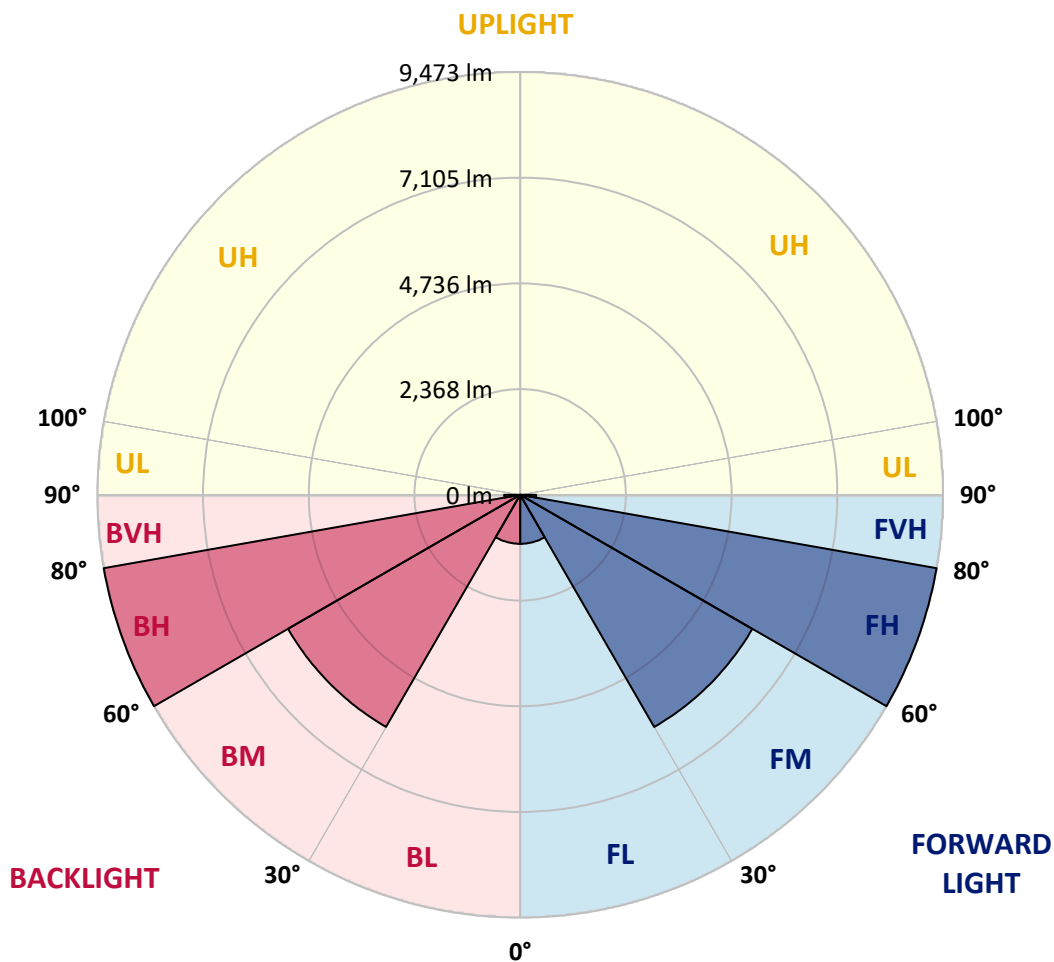
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1097.7	3.2			
FM	(30°-60°)	6004.8	17.7			
FH	(60°-80°)	9472.7	28.0			G4/12000
FVH	(80°-90°)	357.7	1.1			G3/500
BL	(0°-30°)	1097.7	3.2	B3/2500		
BM	(30°-60°)	6004.8	17.7	B4/8500		
BH	(60°-80°)	9472.7	28.0	B5		G4/12000
BVH	(80°-90°)	357.7	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°	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2
2.5°	2398.2	2399.7	2401.4	2399.7	2399.7	2398.2	2396.7	2398.2	2396.7	2393.6	2395.1
5°	2406.0	2409.0	2409.0	2406.0	2407.5	2406.0	2402.9	2404.4	2401.4	2396.7	2396.7
7.5°	2415.3	2416.8	2416.8	2413.8	2415.3	2412.2	2409.0	2407.5	2404.4	2398.2	2393.6
10°	2429.3	2430.8	2429.3	2426.2	2426.2	2421.5	2413.8	2410.7	2404.4	2395.1	2390.4
12.5°	2444.9	2446.4	2444.9	2441.7	2440.1	2432.4	2426.2	2421.5	2416.8	2409.0	2401.4
15°	2466.5	2469.7	2466.5	2460.4	2455.7	2449.5	2446.4	2447.9	2449.5	2443.3	2435.5
17.5°	2506.9	2508.5	2503.9	2489.9	2483.6	2477.5	2477.5	2480.6	2485.2	2482.1	2474.3
20°	2581.5	2576.8	2566.0	2548.9	2541.1	2530.3	2528.7	2530.3	2530.3	2528.7	2522.5
22.5°	2674.7	2671.6	2657.6	2635.8	2625.0	2618.8	2609.4	2601.7	2600.1	2595.5	2589.3
25°	2786.5	2785.0	2767.9	2749.3	2741.5	2733.7	2726.0	2715.1	2705.8	2694.9	2688.7
27.5°	2929.4	2923.2	2898.3	2889.0	2878.2	2873.6	2862.6	2850.2	2842.5	2828.5	2820.7
30°	3086.3	3086.3	3066.1	3063.0	3063.0	3052.2	3039.7	3018.0	3004.0	2990.0	2985.4
32.5°	3243.2	3244.8	3224.5	3230.8	3235.4	3243.2	3246.3	3238.6	3229.3	3227.6	3218.3
35°	3470.0	3463.7	3443.6	3448.3	3446.6	3445.1	3445.1	3462.2	3465.3	3468.4	3449.8
37.5°	3751.2	3751.2	3730.9	3730.9	3721.6	3712.3	3699.8	3710.8	3727.8	3732.4	3720.1
40°	4072.7	4083.5	4058.7	4057.1	4060.2	4030.7	4016.7	4033.8	4044.6	4063.4	4049.4
42.5°	4451.7	4443.9	4419.0	4415.9	4398.8	4389.5	4377.1	4391.0	4408.1	4420.6	4425.2
45°	4815.1	4808.9	4781.0	4781.0	4763.9	4756.1	4762.2	4785.6	4793.3	4810.4	4827.5
47.5°	5173.9	5166.1	5147.5	5155.3	5156.8	5170.8	5191.0	5212.8	5234.4	5257.8	5265.5
50°	5540.5	5542.0	5521.8	5540.5	5563.7	5602.6	5656.9	5692.7	5737.7	5767.2	5776.6
52.5°	5874.4	5880.6	5902.3	5945.9	5992.4	6068.6	6161.7	6248.7	6323.3	6373.0	6369.9
55°	6275.2	6284.5	6337.3	6411.9	6488.0	6602.8	6741.1	6894.9	7019.2	7090.6	7045.6
57.5°	6787.7	6807.9	6867.0	6967.9	7081.3	7230.4	7419.9	7651.4	7844.0	7940.2	7867.2
60°	7491.4	7503.8	7575.3	7687.1	7823.7	8008.6	8261.8	8572.4	8844.2	8971.6	8887.7
62.5°	8418.7	8441.9	8499.4	8612.8	8752.6	8962.3	9271.4	9659.7	9998.3	10175.4	9985.8
65°	9526.1	9600.7	9648.8	9763.8	9894.2	10116.4	10439.4	10855.7	11219.1	11335.6	11116.6
67.5°	10622.7	10688.0	10771.8	10903.8	11035.9	11285.9	11585.7	11989.6	12388.8	12494.4	12154.2
70°	11102.7	11139.9	11270.5	11450.6	11703.8	11998.9	12345.3	12798.9	13292.7	13379.8	12947.9
72.5°	10141.2	10178.5	10324.4	10630.5	11071.6	11540.7	12144.9	12811.2	13463.6	13561.5	12966.6
75°	7670.0	7609.4	7825.3	8230.7	8825.6	9479.5	10324.4	11279.8	12222.5	12345.3	11635.5
77.5°	3963.9	3956.2	4119.2	4622.5	5332.3	6076.3	7006.7	8086.2	9008.9	9381.7	8803.8
80°	1116.8	1129.2	1206.9	1457.0	1871.7	2409.0	3136.1	4147.1	4902.1	5287.3	4964.2
82.5°	438.0	472.2	501.7	548.3	602.6	681.9	910.2	1354.5	1817.3	2171.4	1778.5
85°	156.9	167.8	237.6	281.1	285.8	301.4	343.3	400.7	483.0	576.2	473.7
87.5°	59.0	65.3	76.1	125.8	124.3	113.3	138.2	144.4	108.7	99.4	122.8
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°	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2	2398.2
2.5°	2392.0	2393.6	2393.6	2395.1	2396.7	2396.7	2399.7	2399.7
5°	2393.6	2393.6	2390.4	2392.0	2390.4	2390.4	2392.0	2392.0
7.5°	2390.4	2388.9	2385.8	2384.3	2381.1	2381.1	2381.1	2381.1
10°	2385.8	2384.3	2381.1	2379.6	2378.1	2378.1	2378.1	2378.1
12.5°	2398.2	2393.6	2390.4	2388.9	2388.9	2388.9	2388.9	2388.9
15°	2430.8	2420.0	2412.2	2412.2	2413.8	2416.8	2416.8	2420.0
17.5°	2471.2	2458.8	2451.0	2444.9	2447.9	2452.6	2455.7	2458.8
20°	2519.4	2513.2	2502.3	2496.1	2496.1	2502.3	2505.4	2506.9
22.5°	2586.1	2581.5	2576.8	2569.0	2569.0	2572.2	2578.4	2578.4
25°	2685.6	2682.5	2679.4	2673.2	2671.6	2671.6	2674.7	2677.8
27.5°	2809.8	2811.4	2808.3	2806.8	2802.1	2800.5	2805.1	2803.6
30°	2976.1	2983.8	2991.6	2985.4	2977.6	2972.9	2968.3	2962.1
32.5°	3201.2	3191.9	3185.8	3174.8	3160.9	3148.4	3139.1	3128.3
35°	3414.1	3398.5	3392.3	3401.6	3400.1	3392.3	3381.5	3372.2
37.5°	3675.0	3671.9	3675.0	3692.1	3689.0	3696.7	3675.0	3673.4
40°	4004.3	4007.4	4029.1	4049.4	4060.2	4071.0	4058.7	4046.2
42.5°	4386.4	4384.9	4392.7	4420.6	4439.2	4451.7	4425.2	4422.1
45°	4790.3	4779.3	4785.6	4808.9	4827.5	4841.5	4812.0	4812.0
47.5°	5234.4	5215.8	5195.7	5222.1	5232.9	5242.2	5218.9	5211.2
50°	5730.0	5691.1	5647.6	5658.6	5658.6	5655.4	5625.9	5624.3
52.5°	6298.4	6227.0	6147.8	6118.3	6101.2	6082.6	6031.3	6006.5
55°	6952.4	6845.2	6720.9	6644.8	6604.5	6553.2	6467.7	6444.5
57.5°	7716.5	7548.9	7334.5	7241.3	7151.1	7067.3	6972.5	6946.1
60°	8622.1	8375.1	8090.9	7918.5	7820.7	7739.9	7642.1	7637.4
62.5°	9631.7	9241.8	8920.3	8765.1	8693.5	8622.1	8529.0	8541.3
65°	10658.4	10251.5	9950.1	9824.3	9757.5	9698.5	9605.3	9619.3
67.5°	11671.2	11296.9	10965.9	10837.0	10762.5	10688.0	10604.1	10618.0
70°	12398.1	11933.6	11560.9	11275.1	11096.5	10894.5	10764.1	10731.5
72.5°	12190.0	11473.9	10882.2	10315.1	9982.8	9712.5	9529.2	9450.0
75°	10549.7	9571.1	8810.1	8114.3	7722.8	7404.3	7172.9	7028.5
77.5°	7834.6	6734.9	5835.6	5034.1	4400.3	3974.8	3675.0	3480.8
80°	4288.5	3261.9	2384.3	1676.0	1231.7	1023.6	904.0	846.5
82.5°	1335.8	862.0	635.3	548.3	509.4	487.7	452.0	394.6
85°	425.5	372.8	346.4	330.8	315.3	275.0	189.5	172.4
87.5°	164.7	169.3	167.8	158.5	161.5	116.5	93.2	82.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)