

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: P269531

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269531
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35270.5 lumens
Efficiency: N/A
Efficacy: 105.6 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

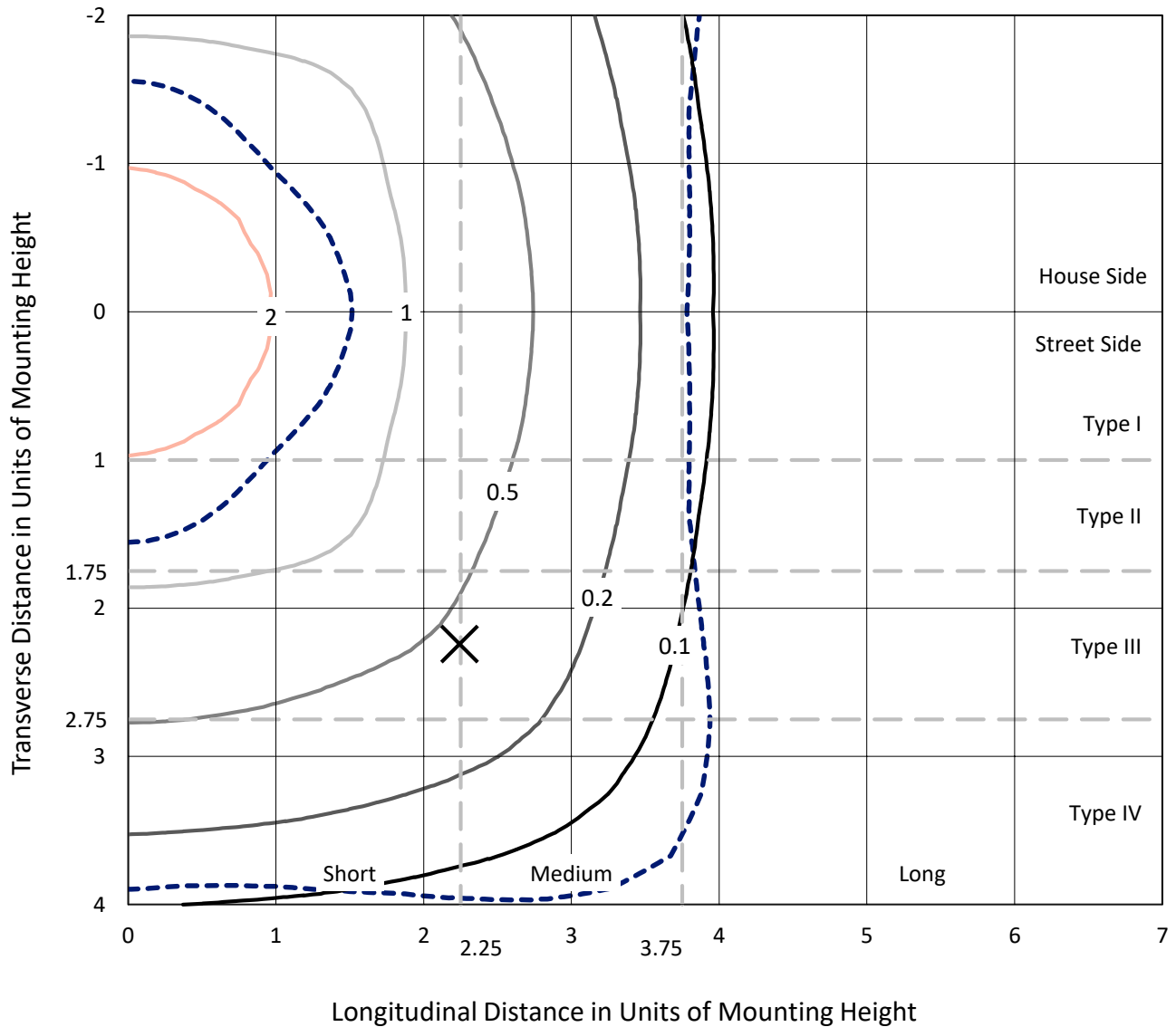
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

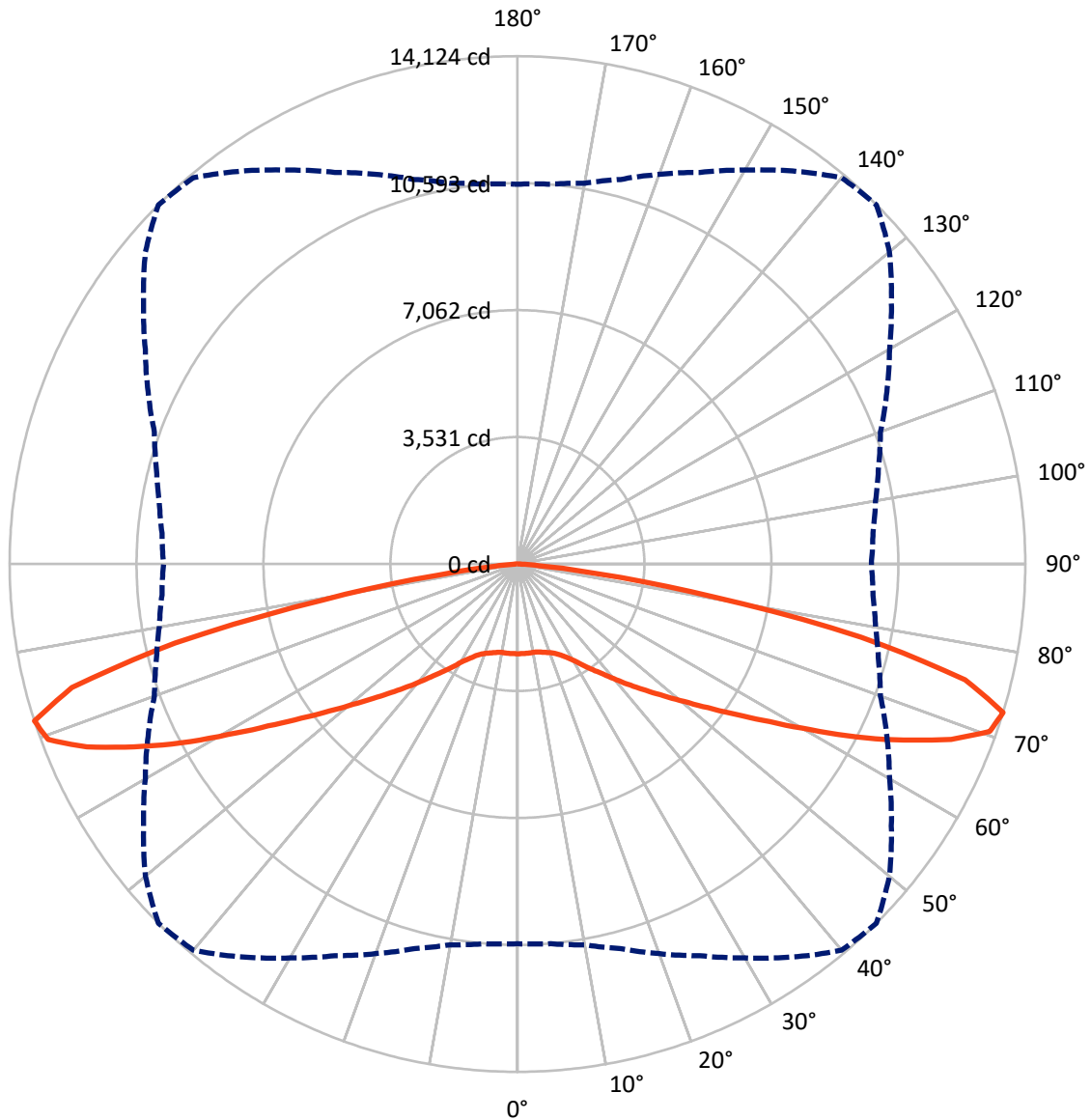


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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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
House Side	Lumens	17635.3	0.0	17635.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17635.3	0.0	17635.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	35270.5	0.0	35270.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	0.7
10°-20°	724.4	2.1
20°-30°	1323.7	3.8
30°-40°	2282.3	6.5
40°-50°	3901.5	11.1
50°-60°	6323.9	17.9
60°-70°	10491.1	29.7
70°-80°	9240.2	26.2
80°-90°	745.0	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°	35270.5	100.0
0°-180°	35270.5	100.0



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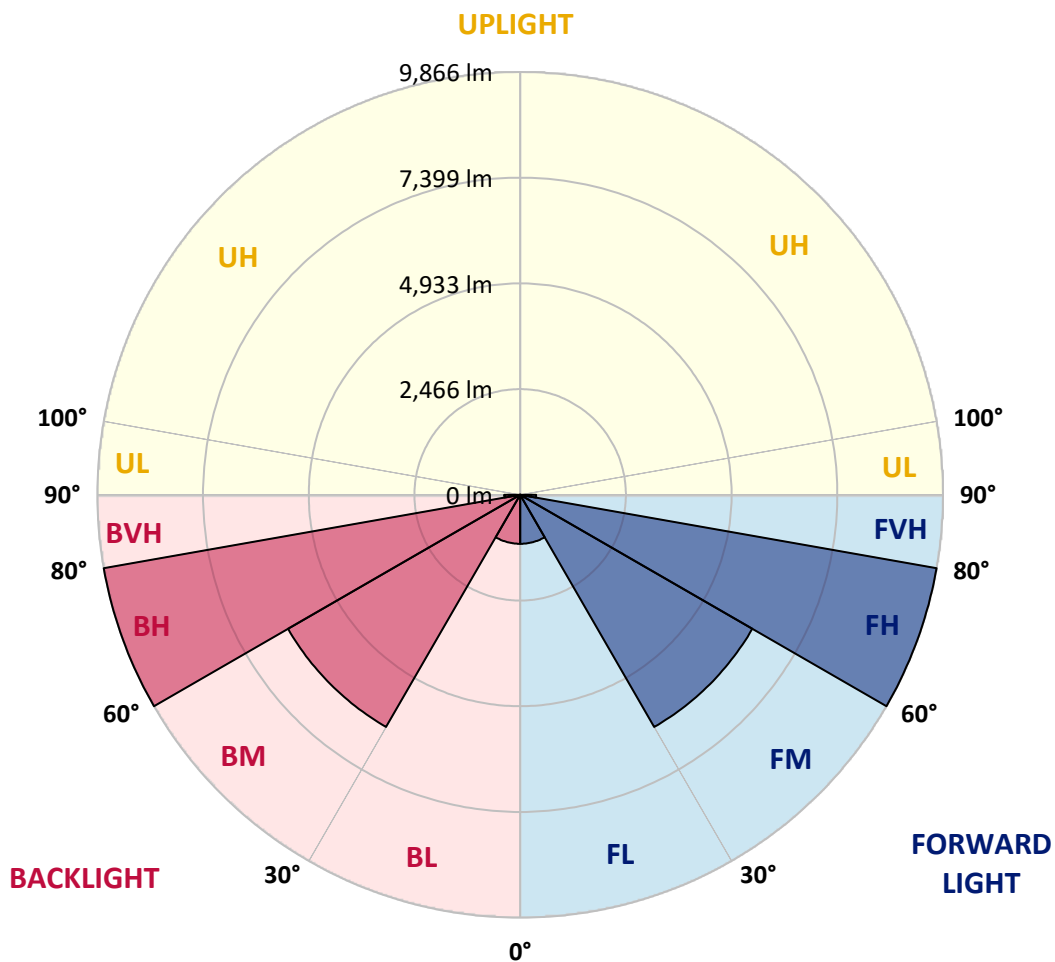
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1143.3	3.2			
FM	(30°-60°)	6253.8	17.7			
FH	(60°-80°)	9865.6	28.0			G4/12000
FVH	(80°-90°)	372.5	1.1			G3/500
BL	(0°-30°)	1143.3	3.2	B3/2500		
BM	(30°-60°)	6253.8	17.7	B4/8500		
BH	(60°-80°)	9865.6	28.0	B5		G4/12000
BVH	(80°-90°)	372.5	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°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2497.6	2499.4	2500.9	2499.4	2499.4	2497.6	2496.1	2497.6	2496.1	2492.8	2494.5
5°	2505.8	2509.1	2509.1	2505.8	2507.3	2505.8	2502.6	2504.1	2500.9	2496.1	2496.1
7.5°	2515.6	2517.1	2517.1	2513.8	2515.6	2512.3	2509.1	2507.3	2504.1	2497.6	2492.8
10°	2530.0	2531.7	2530.0	2526.8	2526.8	2522.0	2513.8	2510.7	2504.1	2494.5	2489.7
12.5°	2546.2	2547.9	2546.2	2543.0	2541.3	2533.3	2526.8	2522.0	2517.1	2509.1	2500.9
15°	2568.9	2572.0	2568.9	2562.4	2557.6	2551.0	2547.9	2549.5	2551.0	2544.5	2536.5
17.5°	2611.0	2612.5	2607.7	2593.1	2586.7	2580.2	2580.2	2583.4	2588.2	2585.1	2577.0
20°	2688.5	2683.7	2672.4	2654.6	2646.5	2635.2	2633.7	2635.2	2635.2	2633.7	2627.2
22.5°	2785.6	2782.4	2767.9	2745.2	2733.9	2727.4	2717.7	2709.6	2708.0	2703.1	2696.7
25°	2902.2	2900.4	2882.8	2863.3	2855.3	2847.1	2839.1	2827.8	2818.1	2806.7	2800.1
27.5°	3051.0	3044.4	3018.6	3009.0	2997.6	2992.8	2981.4	2968.4	2960.4	2945.8	2937.6
30°	3214.3	3214.3	3193.4	3190.2	3190.2	3178.7	3165.7	3143.2	3128.5	3114.1	3109.2
32.5°	3377.7	3379.3	3358.4	3364.8	3369.6	3377.7	3381.0	3372.9	3363.2	3361.5	3351.8
35°	3613.9	3607.5	3586.5	3591.2	3589.6	3588.0	3588.0	3605.7	3609.0	3612.3	3593.0
37.5°	3906.6	3906.6	3885.7	3885.7	3875.9	3866.2	3853.3	3864.7	3882.5	3887.2	3874.3
40°	4241.5	4252.8	4227.1	4225.4	4228.6	4197.9	4183.3	4201.2	4212.4	4231.8	4217.4
42.5°	4636.3	4628.2	4602.2	4599.1	4581.3	4571.6	4558.5	4573.2	4591.0	4604.0	4608.8
45°	5014.8	5008.3	4979.2	4979.2	4961.3	4953.3	4959.8	4984.1	4992.2	5009.9	5027.8
47.5°	5388.6	5380.4	5360.9	5369.1	5370.6	5385.2	5406.3	5428.9	5451.5	5475.9	5484.0
50°	5770.3	5771.9	5750.9	5770.3	5794.5	5835.0	5891.7	5928.9	5975.7	6006.4	6016.2
52.5°	6118.0	6124.6	6147.2	6192.5	6241.1	6320.2	6417.3	6508.0	6585.6	6637.3	6634.2
55°	6535.3	6545.1	6600.1	6677.8	6757.1	6876.7	7020.8	7181.0	7310.2	7384.7	7337.9
57.5°	7069.3	7090.3	7151.8	7256.9	7375.1	7530.3	7727.7	7968.8	8169.2	8269.5	8193.6
60°	7802.0	7815.1	7889.5	8006.0	8148.3	8340.8	8604.4	8928.0	9211.1	9343.7	9256.3
62.5°	8767.8	8792.2	8852.0	8970.0	9115.6	9334.0	9655.9	10060.4	10413.1	10597.5	10400.0
65°	9921.2	9998.9	10049.0	10168.8	10304.6	10536.0	10872.5	11306.0	11684.6	11805.9	11577.7
67.5°	11063.3	11131.3	11218.7	11356.2	11493.6	11754.1	12066.4	12486.9	12902.6	13012.7	12658.3
70°	11563.3	11602.0	11738.0	11925.5	12189.2	12496.6	12857.4	13329.7	13844.0	13934.7	13484.9
72.5°	10561.8	10600.7	10752.7	11071.4	11530.9	12019.4	12648.7	13342.6	14022.1	14124.1	13504.4
75°	7988.1	7925.0	8150.0	8572.0	9191.6	9872.7	10752.7	11747.7	12729.5	12857.4	12118.0
77.5°	4128.3	4120.3	4290.0	4814.2	5553.5	6328.4	7297.3	8421.7	9382.5	9770.9	9169.0
80°	1163.1	1176.1	1257.0	1517.3	1949.3	2509.1	3266.1	4319.2	5105.3	5506.6	5170.1
82.5°	456.2	491.8	522.5	571.1	627.6	710.2	947.9	1410.6	1892.6	2261.6	1852.2
85°	163.4	174.7	247.6	292.8	297.7	313.9	357.5	417.4	503.1	600.2	493.3
87.5°	61.4	67.9	79.3	131.1	129.4	118.0	144.0	150.5	113.2	103.6	127.7
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°	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6	2497.6
2.5°	2491.2	2492.8	2492.8	2494.5	2496.1	2496.1	2499.4	2499.4
5°	2492.8	2492.8	2489.7	2491.2	2489.7	2489.7	2491.2	2491.2
7.5°	2489.7	2487.9	2484.7	2483.2	2480.0	2480.0	2480.0	2480.0
10°	2484.7	2483.2	2480.0	2478.2	2476.6	2476.6	2476.6	2476.6
12.5°	2497.6	2492.8	2489.7	2487.9	2487.9	2487.9	2487.9	2487.9
15°	2531.7	2520.4	2512.3	2512.3	2513.8	2517.1	2517.1	2520.4
17.5°	2573.7	2560.8	2552.8	2546.2	2549.5	2554.3	2557.6	2560.8
20°	2623.9	2617.4	2606.2	2599.7	2599.7	2606.2	2609.3	2611.0
22.5°	2693.5	2688.5	2683.7	2675.6	2675.6	2678.8	2685.4	2685.4
25°	2797.0	2793.6	2790.6	2784.0	2782.4	2782.4	2785.6	2788.9
27.5°	2926.4	2927.9	2924.8	2923.2	2918.4	2916.6	2921.6	2919.9
30°	3099.5	3107.5	3115.6	3109.2	3101.0	3096.3	3091.3	3084.9
32.5°	3334.0	3324.4	3317.9	3306.5	3292.0	3279.1	3269.3	3258.1
35°	3555.8	3539.5	3533.0	3542.7	3541.1	3533.0	3521.6	3512.1
37.5°	3827.5	3824.3	3827.5	3845.3	3842.1	3850.0	3827.5	3825.8
40°	4170.4	4173.6	4196.3	4217.4	4228.6	4239.9	4227.1	4214.0
42.5°	4568.3	4566.8	4574.8	4604.0	4623.3	4636.3	4608.8	4605.5
45°	4988.9	4977.6	4984.1	5008.3	5027.8	5042.4	5011.6	5011.6
47.5°	5451.5	5432.2	5411.1	5438.7	5449.9	5459.7	5435.5	5427.3
50°	5967.6	5927.1	5881.9	5893.2	5893.2	5889.9	5859.3	5857.6
52.5°	6559.8	6485.4	6402.8	6372.0	6354.3	6334.8	6281.5	6255.5
55°	7240.8	7129.0	6999.8	6920.5	6878.4	6825.1	6736.0	6711.7
57.5°	8036.6	7862.0	7638.6	7541.6	7447.8	7360.4	7261.8	7234.3
60°	8979.7	8722.5	8426.6	8246.9	8145.0	8060.9	7959.1	7954.1
62.5°	10031.3	9625.2	9290.4	9128.5	9054.1	8979.7	8882.7	8895.6
65°	11100.5	10676.6	10362.8	10231.9	10162.3	10100.8	10003.7	10018.3
67.5°	12155.2	11765.5	11420.8	11286.6	11209.0	11131.3	11043.9	11058.5
70°	12912.3	12428.7	12040.4	11742.7	11556.8	11346.4	11210.6	11176.5
72.5°	12695.6	11949.9	11333.5	10743.0	10396.9	10115.4	9924.5	9842.0
75°	10987.3	9968.1	9175.5	8450.7	8043.2	7711.5	7470.5	7320.0
77.5°	8159.6	7014.2	6077.7	5242.9	4583.0	4139.7	3827.5	3625.2
80°	4466.5	3397.1	2483.2	1745.4	1282.8	1066.1	941.6	881.6
82.5°	1391.2	897.9	661.6	571.1	530.5	507.9	470.7	410.9
85°	443.3	388.2	360.7	344.6	328.4	286.3	197.4	179.7
87.5°	171.4	176.3	174.7	165.0	168.3	121.4	97.0	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)