

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: P193426

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193426
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 33127 lumens
Efficiency: N/A
Efficacy: 99.2 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

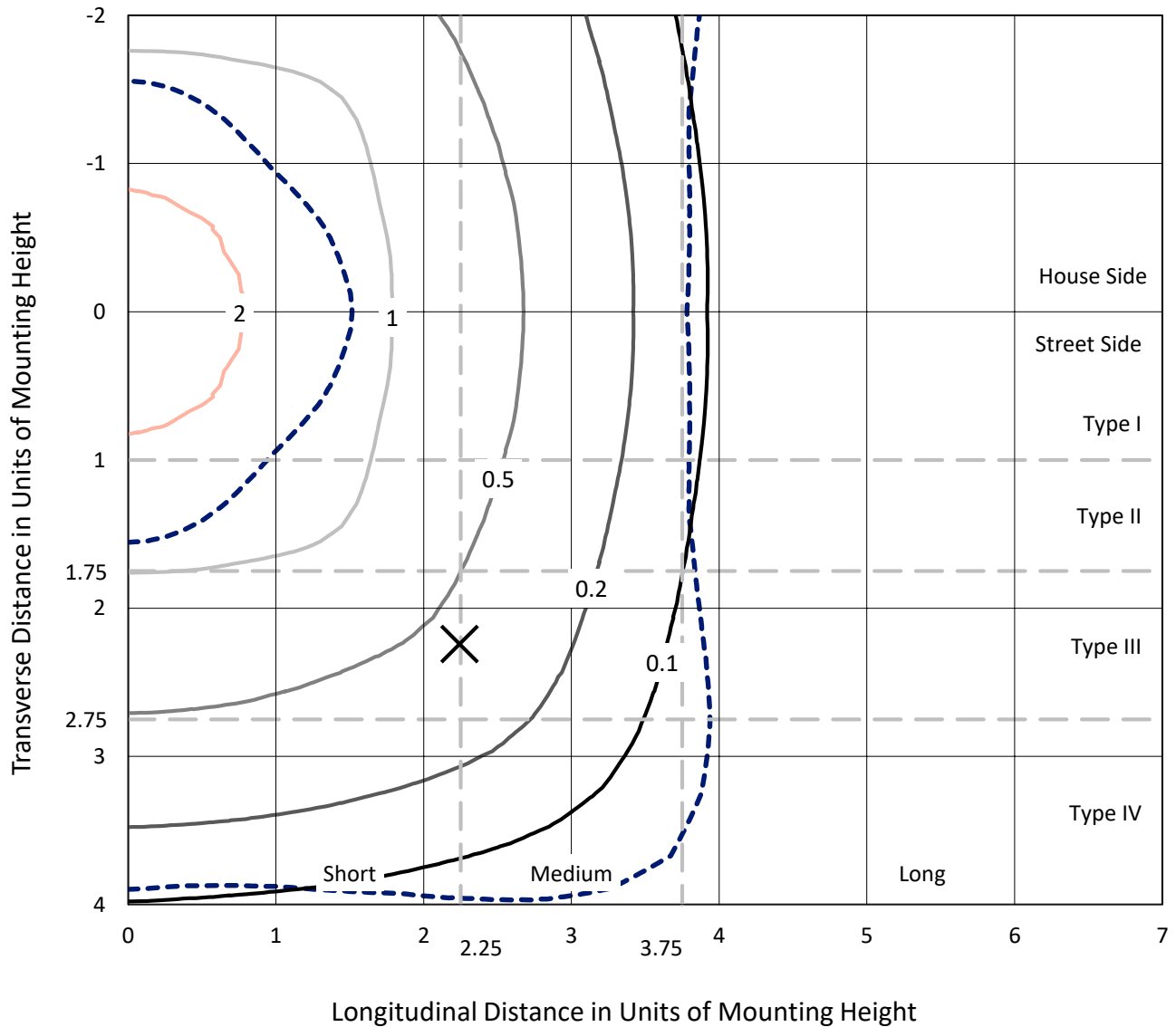


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

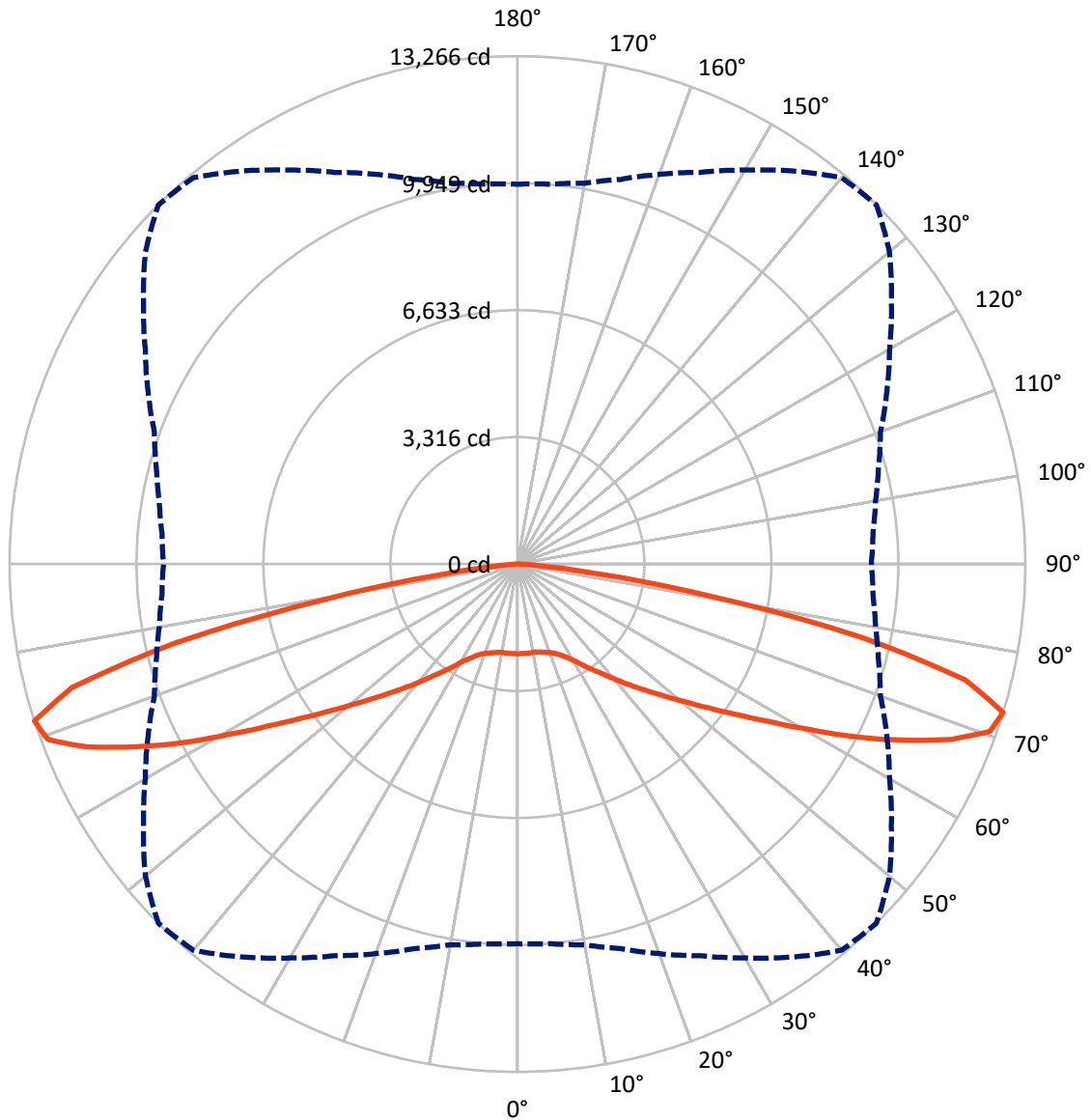


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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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	16563.5	0.0	16563.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16563.5	0.0	16563.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33127.0	0.0	33127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	0.7
10°-20°	680.3	2.1
20°-30°	1243.2	3.8
30°-40°	2143.6	6.5
40°-50°	3664.4	11.1
50°-60°	5939.6	17.9
60°-70°	9853.5	29.7
70°-80°	8678.6	26.2
80°-90°	699.7	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°	33127.0	100.0
0°-180°	33127.0	100.0



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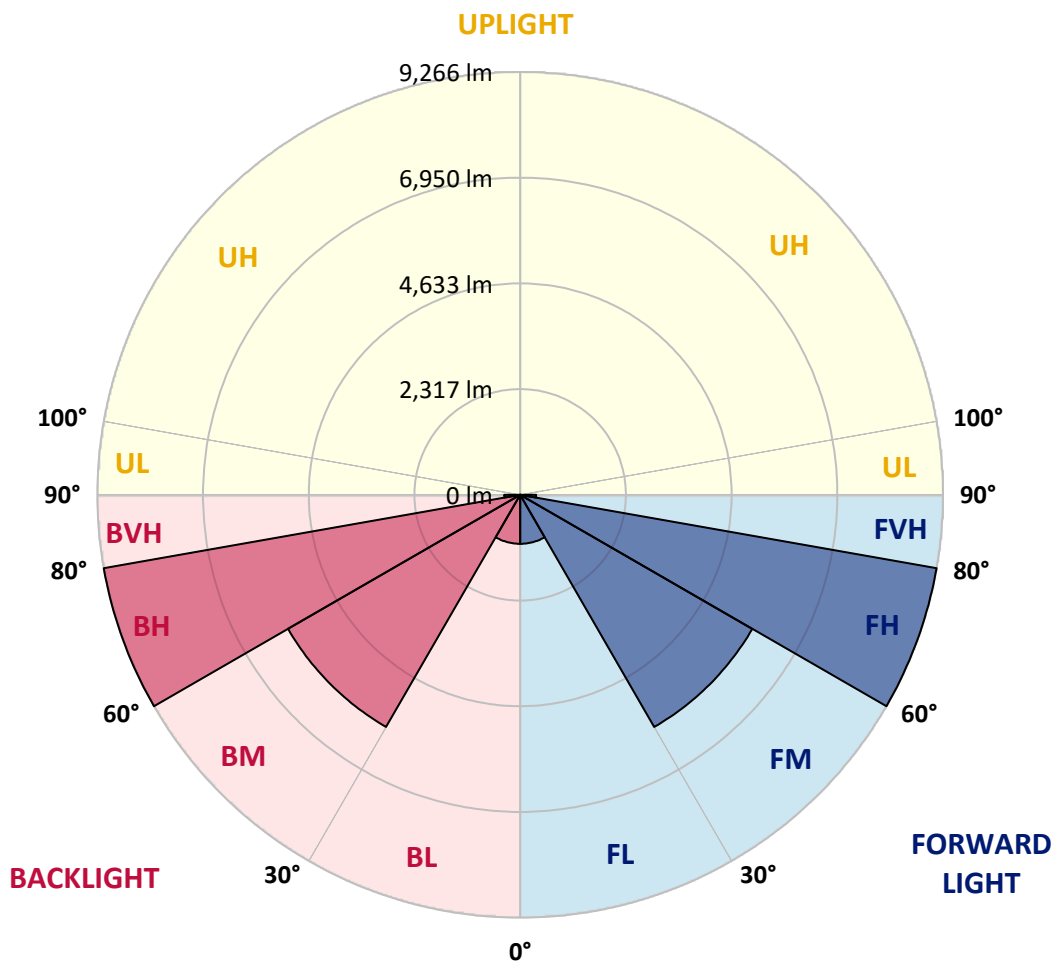
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.8	3.2			
FM	(30°-60°)	5873.8	17.7			
FH	(60°-80°)	9266.1	28.0			G4/12000
FVH	(80°-90°)	349.9	1.1			G3/500
BL	(0°-30°)	1073.8	3.2	B3/2500		
BM	(30°-60°)	5873.8	17.7	B4/8500		
BH	(60°-80°)	9266.1	28.0	B5		G4/12000
BVH	(80°-90°)	349.9	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°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2345.9	2347.4	2348.9	2347.4	2347.4	2345.9	2344.4	2345.9	2344.4	2341.3	2342.9
5°	2353.5	2356.5	2356.5	2353.5	2355.0	2353.5	2350.5	2352.0	2348.9	2344.4	2344.4
7.5°	2362.6	2364.1	2364.1	2361.1	2362.6	2359.6	2356.5	2355.0	2352.0	2345.9	2341.3
10°	2376.3	2377.8	2376.3	2373.3	2373.3	2368.7	2361.1	2358.1	2352.0	2342.9	2338.3
12.5°	2391.5	2393.0	2391.5	2388.4	2386.9	2379.3	2373.3	2368.7	2364.1	2356.5	2348.9
15°	2412.8	2415.8	2412.8	2406.7	2402.1	2396.0	2393.0	2394.5	2396.0	2390.0	2382.4
17.5°	2452.3	2453.8	2449.2	2435.5	2429.5	2423.4	2423.4	2426.4	2431.0	2428.0	2420.4
20°	2525.2	2520.6	2510.0	2493.3	2485.7	2475.1	2473.5	2475.1	2475.1	2473.5	2467.5
22.5°	2616.4	2613.3	2599.6	2578.4	2567.7	2561.7	2552.5	2544.9	2543.4	2538.9	2532.8
25°	2725.7	2724.2	2707.5	2689.3	2681.7	2674.1	2666.5	2655.9	2646.7	2636.1	2630.0
27.5°	2865.5	2859.5	2835.1	2826.0	2815.4	2810.8	2800.2	2788.0	2780.4	2766.8	2759.2
30°	3019.0	3019.0	2999.2	2996.2	2996.2	2985.6	2973.4	2952.1	2938.5	2924.8	2920.2
32.5°	3172.4	3174.0	3154.2	3160.3	3164.8	3172.4	3175.5	3167.9	3158.8	3157.2	3148.1
35°	3394.3	3388.2	3368.4	3373.0	3371.5	3370.0	3370.0	3386.7	3389.7	3392.8	3374.5
37.5°	3669.3	3669.3	3649.5	3649.5	3640.4	3631.3	3619.1	3629.8	3646.5	3651.0	3638.9
40°	3983.8	3994.4	3970.1	3968.6	3971.6	3942.8	3929.1	3945.8	3956.4	3974.7	3961.0
42.5°	4354.5	4346.9	4322.6	4319.6	4302.9	4293.7	4281.6	4295.3	4312.0	4324.1	4328.7
45°	4710.0	4704.0	4676.6	4676.6	4659.9	4652.3	4658.4	4681.2	4688.8	4705.5	4722.2
47.5°	5061.0	5053.4	5035.2	5042.8	5044.3	5058.0	5077.7	5099.0	5120.3	5143.1	5150.7
50°	5419.6	5421.1	5401.4	5419.6	5442.4	5480.4	5533.5	5568.5	5612.6	5641.4	5650.5
52.5°	5746.3	5752.3	5773.6	5816.1	5861.7	5936.2	6027.3	6112.4	6185.4	6234.0	6230.9
55°	6138.3	6147.4	6199.0	6272.0	6346.4	6458.8	6594.1	6744.5	6866.0	6935.9	6891.9
57.5°	6639.6	6659.4	6717.1	6815.9	6926.8	7072.7	7258.0	7484.4	7672.8	7767.0	7695.6
60°	7327.9	7340.1	7410.0	7519.4	7653.1	7833.9	8081.5	8385.4	8651.3	8775.9	8693.8
62.5°	8235.0	8257.8	8314.0	8424.9	8561.6	8766.8	9069.1	9449.0	9780.2	9953.4	9768.0
65°	9318.3	9391.2	9438.3	9550.8	9678.4	9895.7	10211.7	10618.9	10974.4	11088.4	10874.1
67.5°	10391.0	10454.8	10536.8	10666.0	10795.1	11039.7	11333.0	11728.0	12118.5	12221.8	11889.1
70°	10860.5	10896.9	11024.5	11200.8	11448.4	11737.1	12075.9	12519.6	13002.8	13087.8	12665.5
72.5°	9920.0	9956.4	10099.2	10398.6	10830.1	11288.9	11879.9	12531.8	13169.9	13265.6	12683.7
75°	7502.6	7443.4	7654.6	8051.1	8633.1	9272.7	10099.2	11033.7	11955.9	12075.9	11381.6
77.5°	3877.4	3869.8	4029.4	4521.6	5216.0	5943.8	6853.9	7909.8	8812.3	9177.0	8611.8
80°	1092.4	1104.6	1180.5	1425.2	1830.8	2356.5	3067.6	4056.7	4795.1	5171.9	4855.9
82.5°	428.5	461.9	490.8	536.3	589.5	667.0	890.4	1324.9	1777.7	2124.1	1739.7
85°	153.5	164.1	232.5	275.0	279.6	294.8	335.8	392.0	472.5	563.7	463.4
87.5°	57.7	63.8	74.4	123.1	121.5	110.9	135.2	141.3	106.4	97.2	120.0
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°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2339.8	2341.3	2341.3	2342.9	2344.4	2344.4	2347.4	2347.4
5°	2341.3	2341.3	2338.3	2339.8	2338.3	2338.3	2339.8	2339.8
7.5°	2338.3	2336.8	2333.8	2332.2	2329.2	2329.2	2329.2	2329.2
10°	2333.8	2332.2	2329.2	2327.7	2326.2	2326.2	2326.2	2326.2
12.5°	2345.9	2341.3	2338.3	2336.8	2336.8	2336.8	2336.8	2336.8
15°	2377.8	2367.2	2359.6	2359.6	2361.1	2364.1	2364.1	2367.2
17.5°	2417.3	2405.2	2397.6	2391.5	2394.5	2399.1	2402.1	2405.2
20°	2464.4	2458.3	2447.7	2441.6	2441.6	2447.7	2450.7	2452.3
22.5°	2529.7	2525.2	2520.6	2513.0	2513.0	2516.1	2522.2	2522.2
25°	2627.0	2624.0	2620.9	2614.8	2613.3	2613.3	2616.4	2619.4
27.5°	2748.5	2750.1	2747.0	2745.5	2740.9	2739.4	2744.0	2742.5
30°	2911.1	2918.7	2926.3	2920.2	2912.6	2908.1	2903.5	2897.4
32.5°	3131.4	3122.3	3116.2	3105.6	3091.9	3079.8	3070.6	3060.0
35°	3339.6	3324.4	3318.3	3327.4	3325.9	3318.3	3307.7	3298.6
37.5°	3594.8	3591.8	3594.8	3611.5	3608.5	3616.1	3594.8	3593.3
40°	3916.9	3920.0	3941.2	3961.0	3971.6	3982.3	3970.1	3958.0
42.5°	4290.7	4289.2	4296.8	4324.1	4342.4	4354.5	4328.7	4325.6
45°	4685.7	4675.1	4681.2	4704.0	4722.2	4735.9	4707.0	4707.0
47.5°	5120.3	5102.0	5082.3	5108.1	5118.8	5127.9	5105.1	5097.5
50°	5605.0	5567.0	5524.4	5535.1	5535.1	5532.0	5503.2	5501.6
52.5°	6161.0	6091.2	6013.7	5984.8	5968.1	5949.9	5899.7	5875.4
55°	6800.7	6695.9	6574.3	6499.9	6460.4	6410.2	6326.7	6303.9
57.5°	7548.2	7384.1	7174.5	7083.3	6995.2	6913.1	6820.4	6794.6
60°	8434.0	8192.4	7914.4	7745.7	7650.0	7571.0	7475.3	7470.7
62.5°	9421.6	9040.2	8725.7	8573.8	8503.9	8434.0	8342.9	8355.0
65°	10425.9	10027.8	9733.1	9610.0	9544.7	9486.9	9395.8	9409.5
67.5°	11416.5	11050.4	10726.7	10600.6	10527.7	10454.8	10372.7	10386.4
70°	12127.6	11673.3	11308.7	11029.1	10854.4	10656.9	10529.2	10497.3
72.5°	11924.0	11223.6	10644.7	10090.1	9765.0	9500.6	9321.3	9243.8
75°	10319.6	9362.4	8617.9	7937.2	7554.3	7242.8	7016.4	6875.1
77.5°	7663.7	6588.0	5708.3	4924.3	4304.4	3888.1	3594.8	3404.9
80°	4195.0	3190.7	2332.2	1639.4	1204.9	1001.3	884.3	828.1
82.5°	1306.7	843.2	621.4	536.3	498.4	477.1	442.1	385.9
85°	416.3	364.6	338.8	323.6	308.4	268.9	185.4	168.6
87.5°	161.1	165.6	164.1	155.0	158.0	114.0	91.2	80.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)