

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: P191676

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191676
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 33106 lumens
Efficiency: N/A
Efficacy: 128.8 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

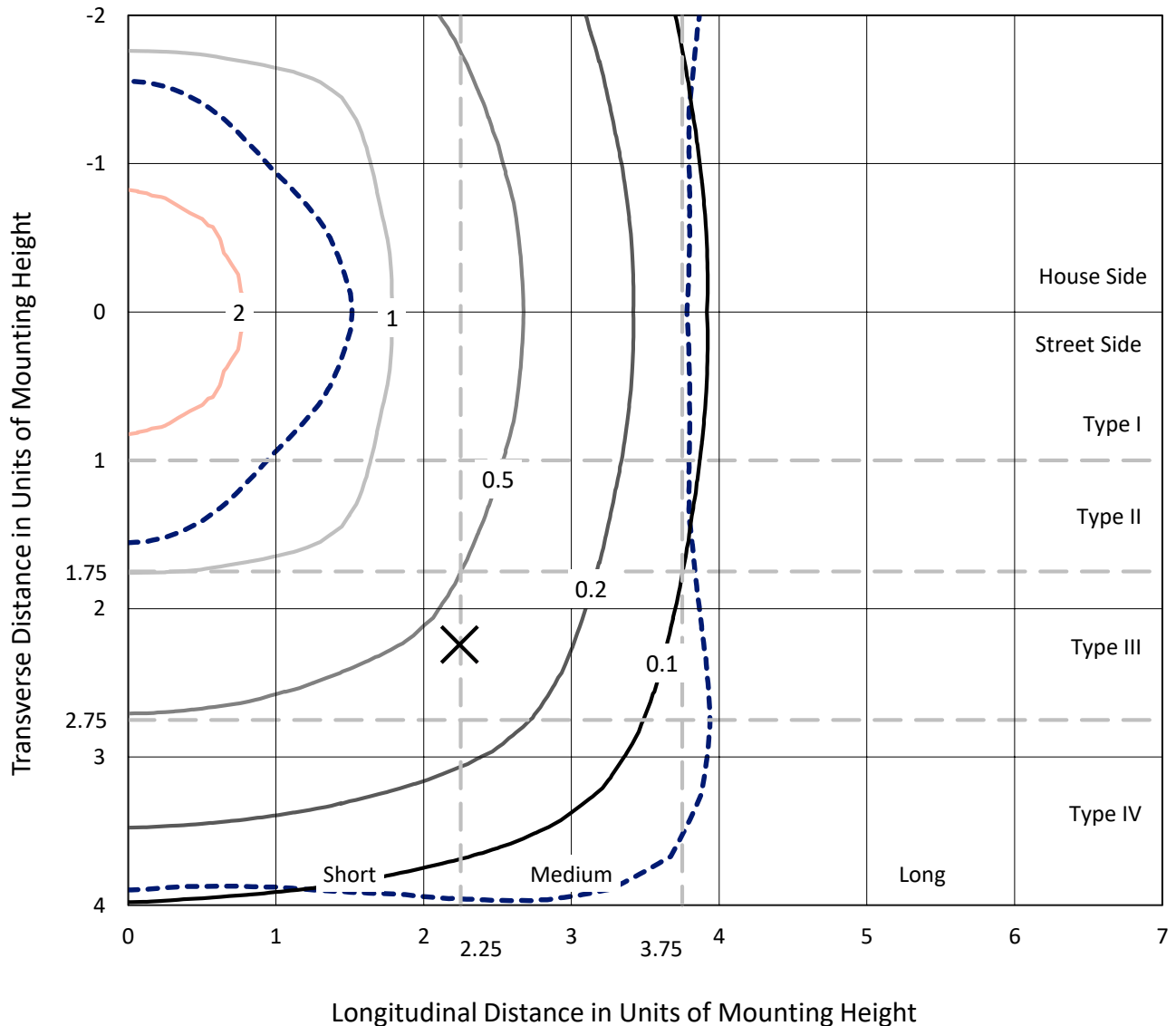


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

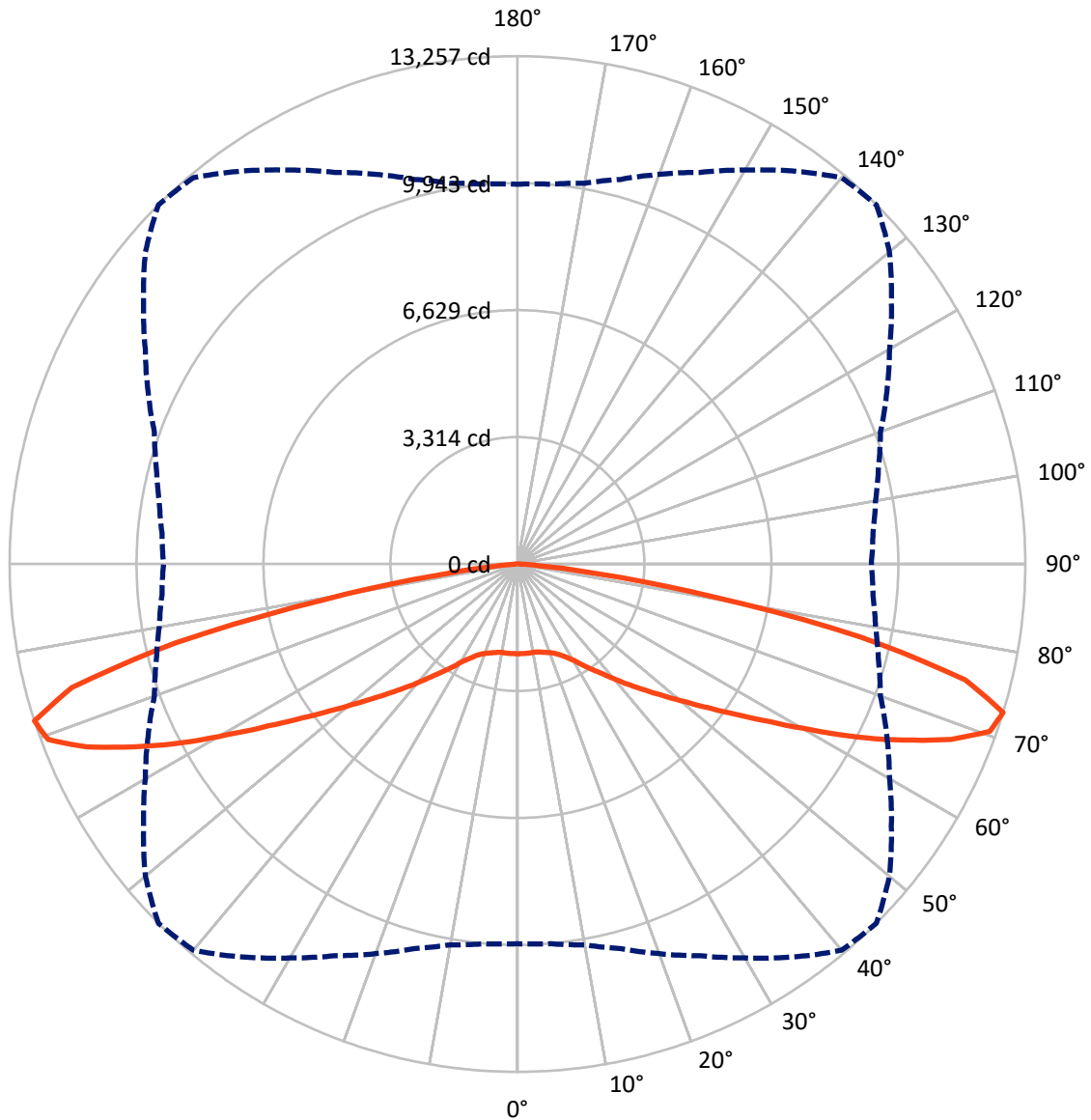


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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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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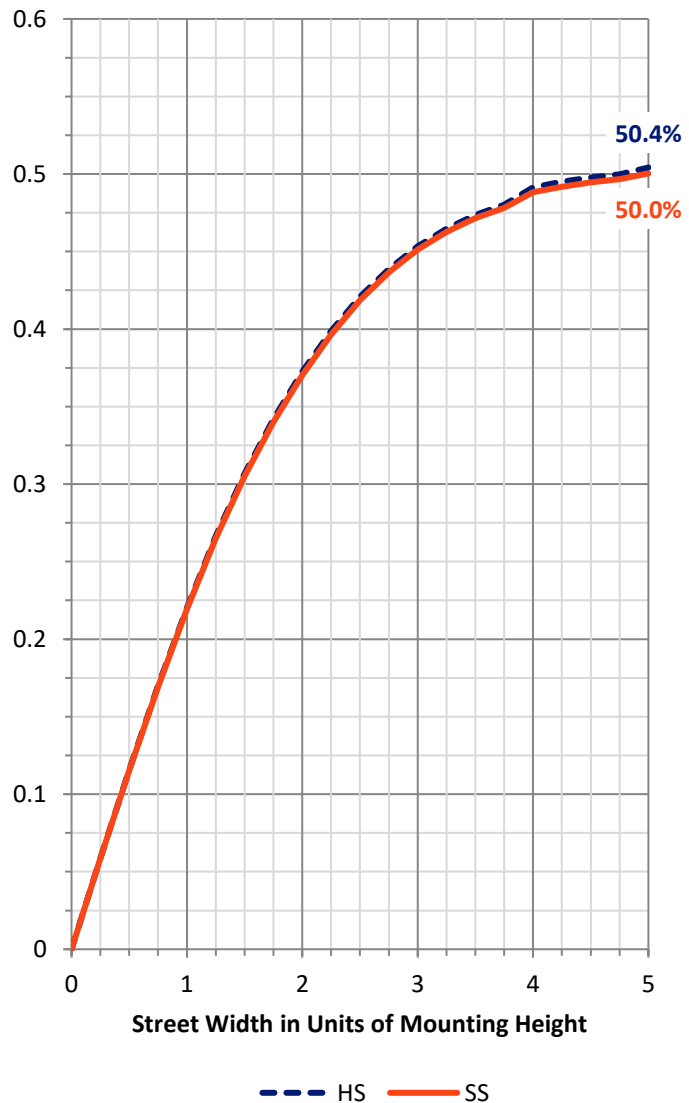
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16553.0	0.0	16553.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16553.0	0.0	16553.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33106.0	0.0	33106.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	0.7
10°-20°	679.9	2.1
20°-30°	1242.5	3.8
30°-40°	2142.2	6.5
40°-50°	3662.1	11.1
50°-60°	5935.8	17.9
60°-70°	9847.3	29.7
70°-80°	8673.1	26.2
80°-90°	699.3	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°	33106.0	100.0
0°-180°	33106.0	100.0



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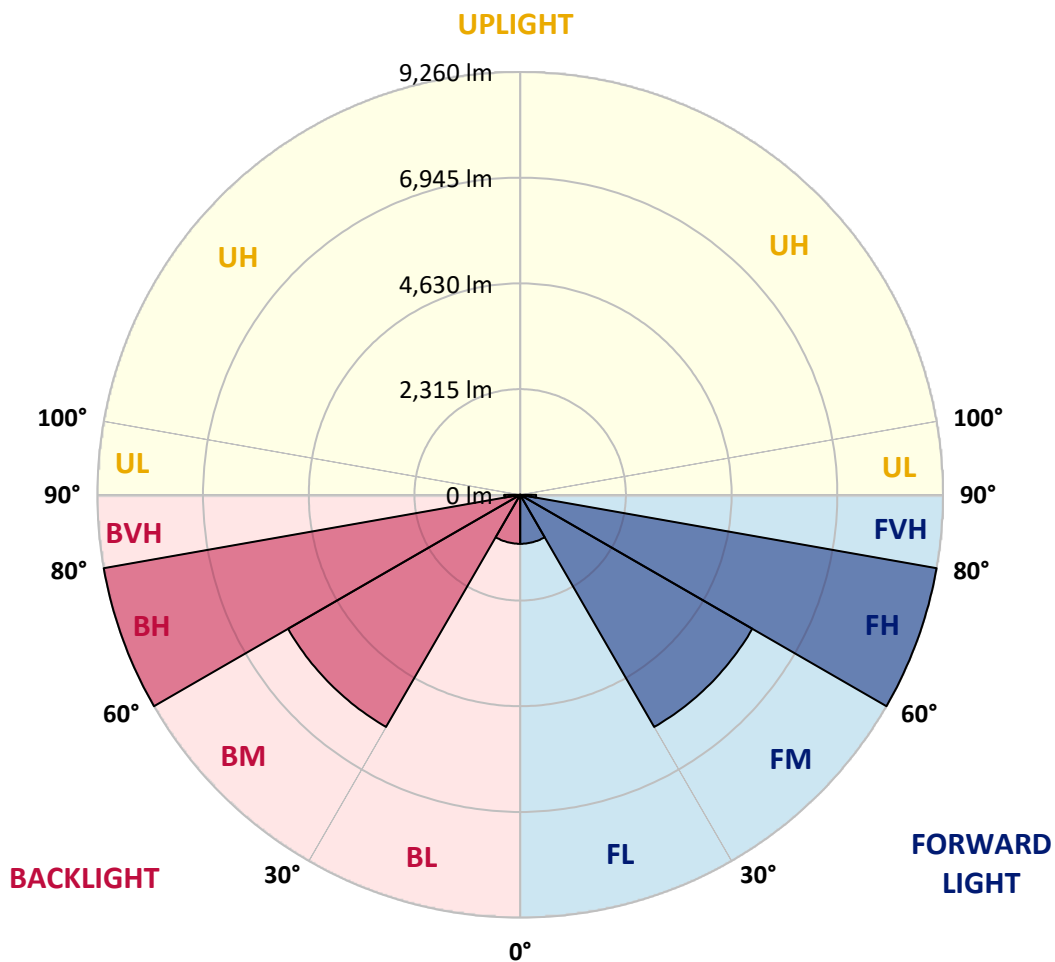
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.1	3.2			
FM	(30°-60°)	5870.1	17.7			
FH	(60°-80°)	9260.2	28.0			G4/12000
FVH	(80°-90°)	349.6	1.1			G3/500
BL	(0°-30°)	1073.1	3.2	B3/2500		
BM	(30°-60°)	5870.1	17.7	B4/8500		
BH	(60°-80°)	9260.2	28.0	B5		G4/12000
BVH	(80°-90°)	349.6	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°	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4
2.5°	2344.4	2345.9	2347.5	2345.9	2345.9	2344.4	2342.9	2344.4	2342.9	2339.9	2341.4
5°	2352.0	2355.0	2355.0	2352.0	2353.5	2352.0	2349.0	2350.5	2347.5	2342.9	2342.9
7.5°	2361.1	2362.6	2362.6	2359.6	2361.1	2358.1	2355.0	2353.5	2350.5	2344.4	2339.9
10°	2374.8	2376.3	2374.8	2371.8	2371.8	2367.2	2359.6	2356.6	2350.5	2341.4	2336.8
12.5°	2390.0	2391.5	2390.0	2386.9	2385.4	2377.8	2371.8	2367.2	2362.6	2355.0	2347.5
15°	2411.2	2414.3	2411.2	2405.2	2400.6	2394.5	2391.5	2393.0	2394.5	2388.5	2380.9
17.5°	2450.7	2452.2	2447.7	2434.0	2427.9	2421.9	2421.9	2424.9	2429.4	2426.4	2418.8
20°	2523.6	2519.0	2508.4	2491.7	2484.1	2473.5	2472.0	2473.5	2473.5	2472.0	2465.9
22.5°	2614.7	2611.7	2598.0	2576.7	2566.1	2560.0	2550.9	2543.3	2541.8	2537.3	2531.2
25°	2724.0	2722.5	2705.8	2687.6	2680.0	2672.4	2664.8	2654.2	2645.1	2634.4	2628.4
27.5°	2863.7	2857.6	2833.3	2824.2	2813.6	2809.1	2798.4	2786.3	2778.7	2765.0	2757.4
30°	3017.1	3017.1	2997.3	2994.3	2994.3	2983.7	2971.5	2950.3	2936.6	2922.9	2918.4
32.5°	3170.4	3172.0	3152.2	3158.3	3162.8	3170.4	3173.5	3165.9	3156.8	3155.2	3146.1
35°	3392.1	3386.0	3366.3	3370.9	3369.3	3367.8	3367.8	3384.5	3387.6	3390.6	3372.4
37.5°	3667.0	3667.0	3647.2	3647.2	3638.1	3629.0	3616.8	3627.5	3644.2	3648.7	3636.6
40°	3981.3	3991.9	3967.6	3966.1	3969.1	3940.3	3926.6	3943.3	3953.9	3972.2	3958.5
42.5°	4351.8	4344.2	4319.9	4316.8	4300.1	4291.0	4278.9	4292.5	4309.2	4321.4	4325.9
45°	4707.1	4701.0	4673.7	4673.7	4657.0	4649.4	4655.4	4678.2	4685.8	4702.5	4719.2
47.5°	5057.8	5050.2	5032.0	5039.6	5041.1	5054.8	5074.5	5095.8	5117.0	5139.8	5147.4
50°	5416.2	5417.7	5397.9	5416.2	5438.9	5476.9	5530.0	5565.0	5609.0	5637.8	5647.0
52.5°	5742.6	5748.7	5769.9	5812.5	5858.0	5932.4	6023.5	6108.5	6181.4	6230.0	6227.0
55°	6134.4	6143.5	6195.1	6268.0	6342.4	6454.7	6589.9	6740.2	6861.7	6931.5	6887.5
57.5°	6635.4	6655.2	6712.9	6811.6	6922.4	7068.2	7253.4	7479.7	7668.0	7762.1	7690.7
60°	7323.3	7335.4	7405.3	7514.6	7648.2	7828.9	8076.4	8380.1	8645.8	8770.3	8688.3
62.5°	8229.8	8252.5	8308.7	8419.6	8556.2	8761.2	9063.4	9443.0	9774.0	9947.1	9761.8
65°	9312.4	9385.3	9432.3	9544.7	9672.2	9889.4	10205.2	10612.1	10967.4	11081.3	10867.2
67.5°	10384.4	10448.2	10530.1	10659.2	10788.3	11032.7	11325.8	11720.6	12110.8	12214.1	11881.5
70°	10853.6	10890.0	11017.6	11193.7	11441.2	11729.7	12068.3	12511.7	12994.5	13079.6	12657.4
72.5°	9913.7	9950.1	10092.8	10392.0	10823.2	11281.8	11872.4	12523.8	13161.5	13257.2	12675.7
75°	7497.9	7438.7	7649.7	8046.0	8627.6	9266.8	10092.8	11026.7	11948.3	12068.3	11374.4
77.5°	3875.0	3867.4	4026.8	4518.8	5212.7	5940.0	6849.5	7904.8	8806.8	9171.2	8606.3
80°	1091.7	1103.9	1179.8	1424.3	1829.7	2355.0	3065.7	4054.1	4792.1	5168.7	4852.8
82.5°	428.2	461.6	490.4	536.0	589.1	666.6	889.8	1324.1	1776.5	2122.7	1738.6
85°	153.4	164.0	232.3	274.8	279.4	294.6	335.6	391.7	472.2	563.3	463.1
87.5°	57.7	63.8	74.4	123.0	121.5	110.8	135.1	141.2	106.3	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°	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4
2.5°	2338.3	2339.9	2339.9	2341.4	2342.9	2342.9	2345.9	2345.9
5°	2339.9	2339.9	2336.8	2338.3	2336.8	2336.8	2338.3	2338.3
7.5°	2336.8	2335.3	2332.3	2330.8	2327.7	2327.7	2327.7	2327.7
10°	2332.3	2330.8	2327.7	2326.2	2324.7	2324.7	2324.7	2324.7
12.5°	2344.4	2339.9	2336.8	2335.3	2335.3	2335.3	2335.3	2335.3
15°	2376.3	2365.7	2358.1	2358.1	2359.6	2362.6	2362.6	2365.7
17.5°	2415.8	2403.6	2396.0	2390.0	2393.0	2397.6	2400.6	2403.6
20°	2462.9	2456.8	2446.2	2440.1	2440.1	2446.2	2449.2	2450.7
22.5°	2528.1	2523.6	2519.0	2511.4	2511.4	2514.5	2520.6	2520.6
25°	2625.3	2622.3	2619.3	2613.2	2611.7	2611.7	2614.7	2617.7
27.5°	2746.8	2748.3	2745.3	2743.8	2739.2	2737.7	2742.2	2740.7
30°	2909.3	2916.9	2924.5	2918.4	2910.8	2906.2	2901.7	2895.6
32.5°	3129.4	3120.3	3114.3	3103.6	3090.0	3077.8	3068.7	3058.1
35°	3337.5	3322.3	3316.2	3325.3	3323.8	3316.2	3305.6	3296.5
37.5°	3592.5	3589.5	3592.5	3609.3	3606.2	3613.8	3592.5	3591.0
40°	3914.5	3917.5	3938.7	3958.5	3969.1	3979.7	3967.6	3955.4
42.5°	4288.0	4286.5	4294.1	4321.4	4339.6	4351.8	4325.9	4322.9
45°	4682.8	4672.1	4678.2	4701.0	4719.2	4732.9	4704.0	4704.0
47.5°	5117.0	5098.8	5079.1	5104.9	5115.5	5124.6	5101.8	5094.3
50°	5601.4	5563.4	5520.9	5531.6	5531.6	5528.5	5499.7	5498.1
52.5°	6157.1	6087.3	6009.9	5981.0	5964.3	5946.1	5896.0	5871.7
55°	6796.4	6691.6	6570.1	6495.7	6456.3	6406.2	6322.6	6299.9
57.5°	7543.4	7379.5	7169.9	7078.8	6990.7	6908.7	6816.1	6790.3
60°	8428.7	8187.2	7909.4	7740.8	7645.2	7566.2	7470.6	7466.0
62.5°	9415.6	9034.5	8720.2	8568.4	8498.5	8428.7	8337.6	8349.7
65°	10419.3	10021.5	9726.9	9603.9	9538.6	9480.9	9389.8	9403.5
67.5°	11409.3	11043.4	10719.9	10593.9	10521.0	10448.2	10366.2	10379.8
70°	12119.9	11665.9	11301.5	11022.1	10847.5	10650.1	10522.6	10490.7
72.5°	11916.5	11216.5	10638.0	10083.7	9758.8	9494.6	9315.4	9238.0
75°	10313.0	9356.4	8612.4	7932.2	7549.5	7238.2	7012.0	6870.8
77.5°	7658.8	6583.8	5704.7	4921.2	4301.6	3885.6	3592.5	3402.7
80°	4192.3	3188.7	2330.8	1638.4	1204.1	1000.6	883.7	827.5
82.5°	1305.8	842.7	621.0	536.0	498.0	476.8	441.9	385.7
85°	416.0	364.4	338.6	323.4	308.2	268.8	185.2	168.5
87.5°	161.0	165.5	164.0	154.9	157.9	113.9	91.1	80.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)