

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: P193984

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23476 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

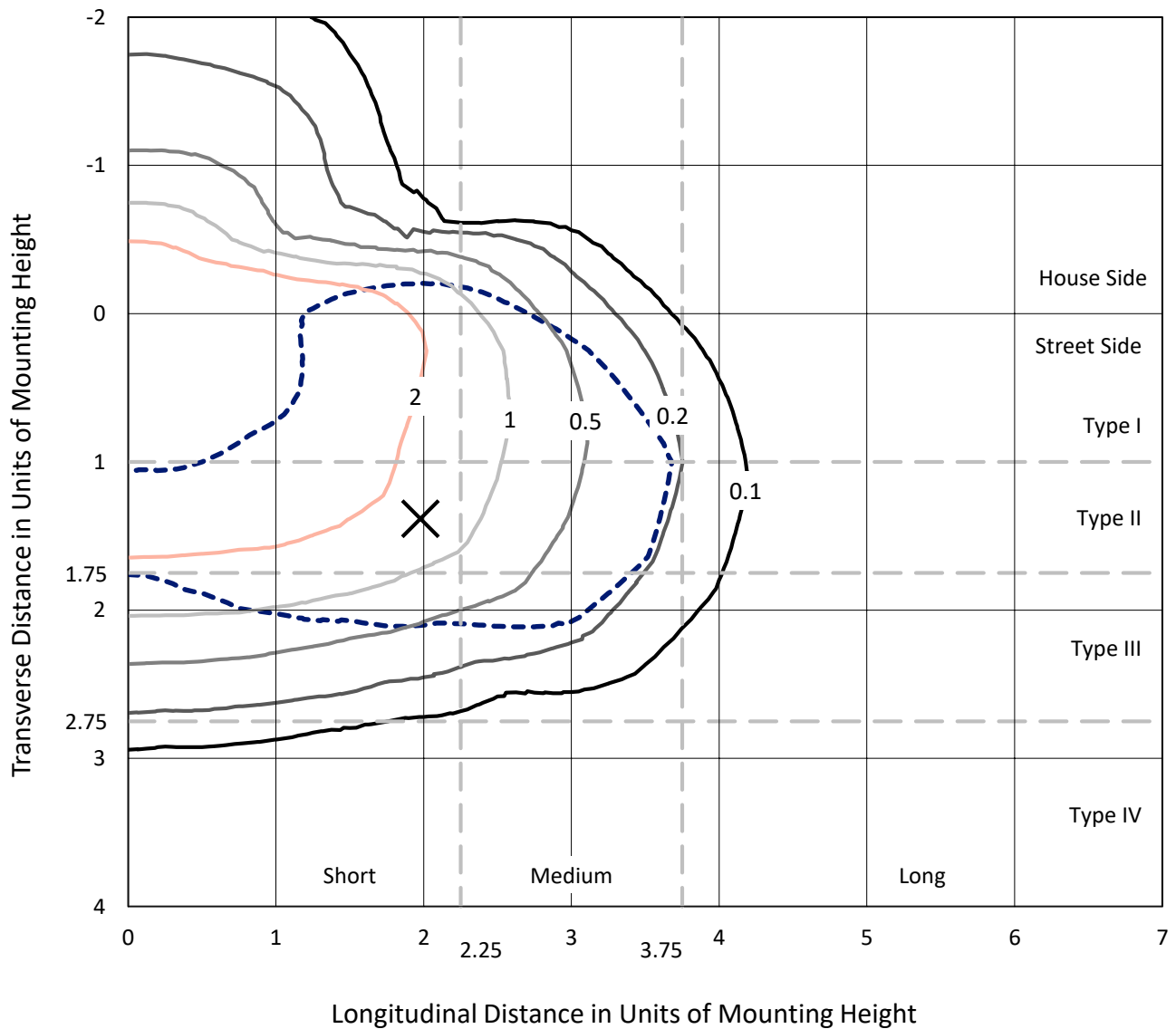


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Iso-Footcandle Lines of Horizontal Illumination

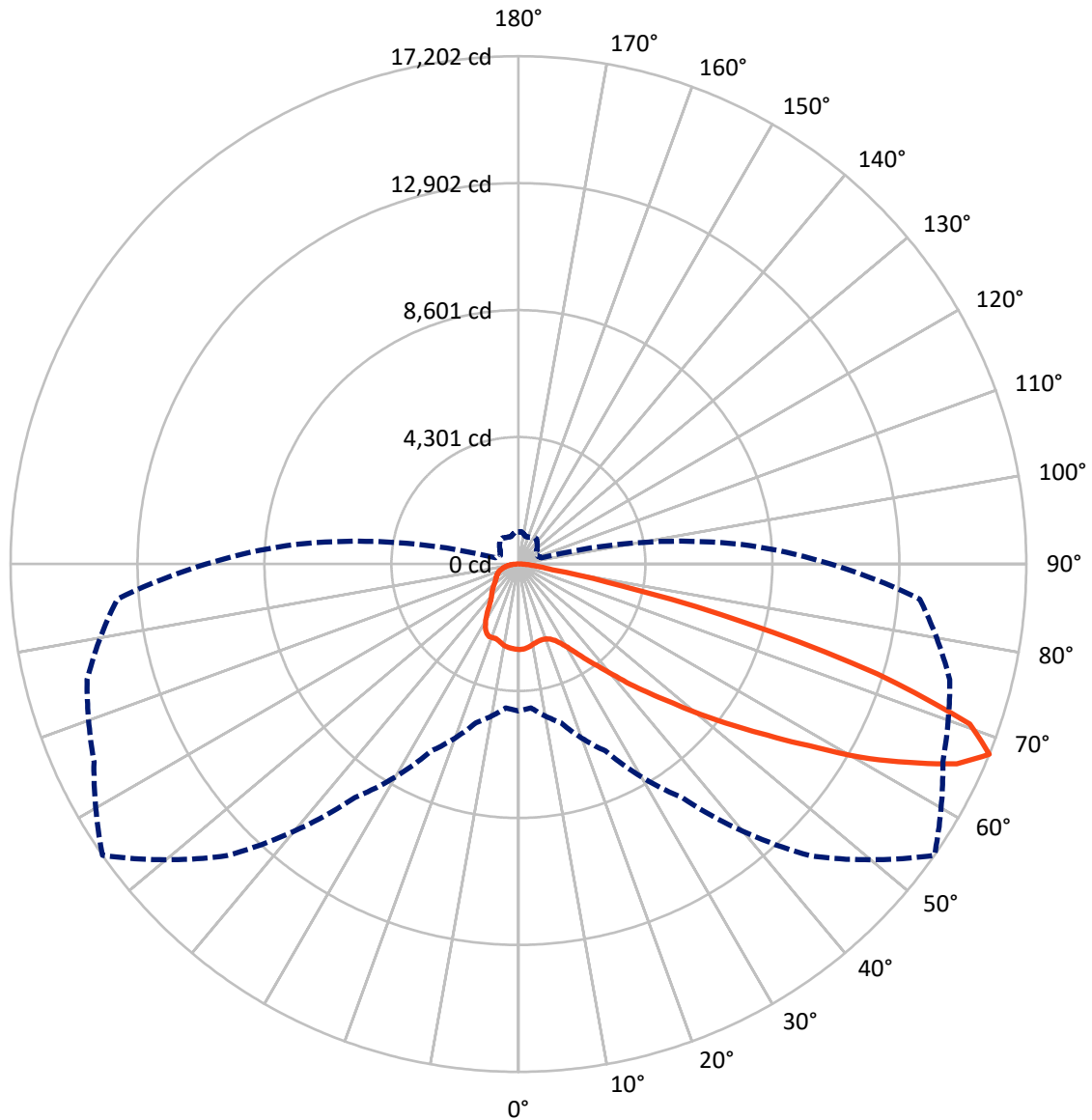
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5071.3	0.0	5071.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18404.7	0.0	18404.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	23476.0	0.0	23476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.2
10°-20°	765.3	3.3
20°-30°	1281.9	5.5
30°-40°	2108.0	9.0
40°-50°	3548.4	15.1
50°-60°	5584.9	23.8
60°-70°	6665.0	28.4
70°-80°	2862.1	12.2
80°-90°	390.2	1.7
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°	23476.0	100.0
0°-180°	23476.0	100.0



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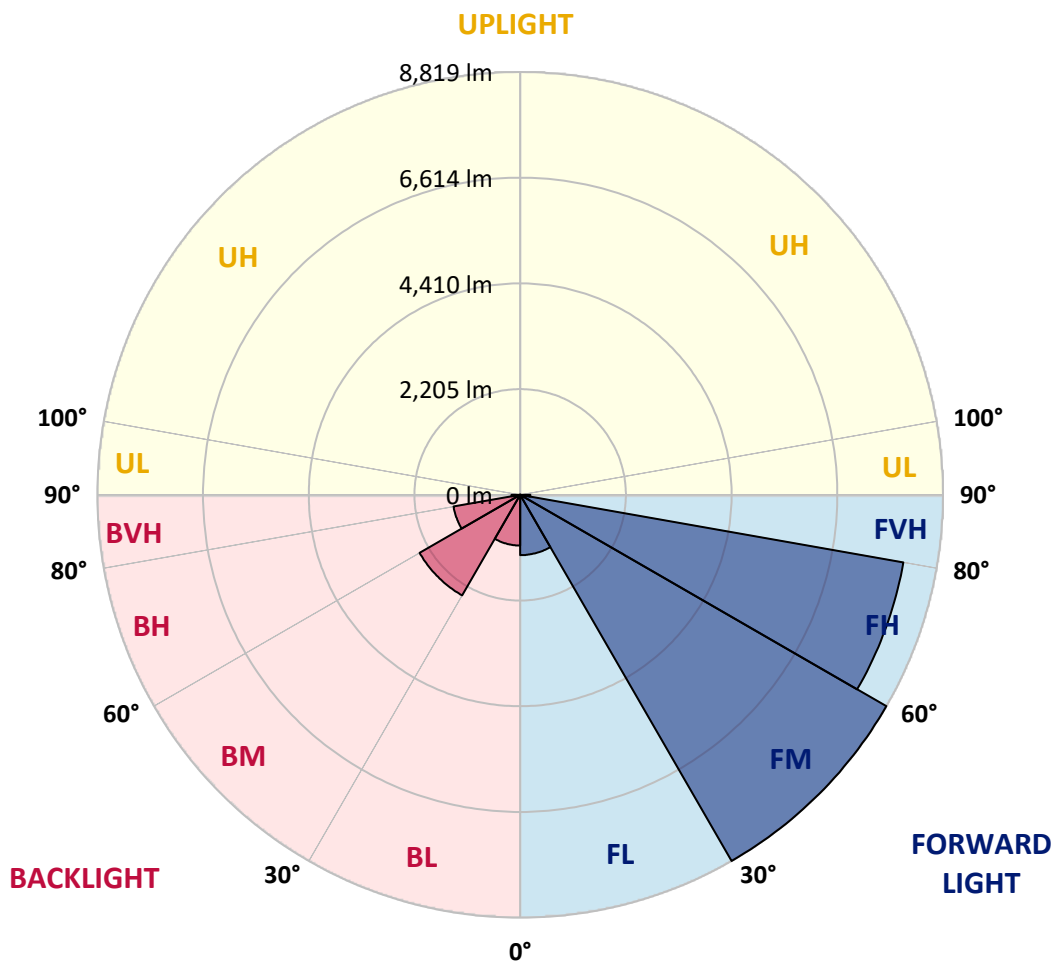
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.4	5.4			
FM	(30°-60°)	8819.3	37.6			
FH	(60°-80°)	8115.8	34.6			G4/12000
FVH	(80°-90°)	211.2	0.9			G2/225
BL	(0°-30°)	1059.0	4.5	B3/2500		
BM	(30°-60°)	2422.0	10.3	B2/2500		
BH	(60°-80°)	1411.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	179.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8
2.5°	2869.9	2871.0	2873.3	2882.4	2890.3	2888.0	2889.2	2884.6	2883.5	2876.7	2883.5
5°	2833.6	2837.0	2838.2	2852.9	2862.0	2864.2	2860.8	2855.2	2848.4	2841.6	2845.0
7.5°	2750.8	2759.9	2761.0	2781.5	2796.2	2815.5	2816.6	2817.7	2814.3	2809.8	2816.6
10°	2698.7	2701.0	2699.8	2714.6	2725.9	2747.4	2759.9	2781.5	2790.5	2792.8	2797.3
12.5°	2695.3	2693.0	2689.6	2689.6	2686.2	2695.3	2718.0	2748.6	2770.1	2776.9	2782.6
15°	2731.6	2730.4	2719.1	2702.1	2680.5	2673.7	2693.0	2727.0	2755.4	2770.1	2775.8
17.5°	2813.2	2806.4	2788.3	2749.7	2703.2	2685.1	2687.3	2715.7	2748.6	2767.9	2773.5
20°	2962.9	2962.9	2924.3	2851.8	2769.0	2725.9	2705.5	2722.5	2754.2	2780.3	2788.3
22.5°	3221.4	3223.7	3159.0	3040.0	2900.5	2808.7	2757.6	2754.2	2791.7	2821.1	2830.2
25°	3587.7	3578.6	3487.9	3317.8	3105.8	2953.8	2865.4	2845.0	2876.7	2909.6	2920.9
27.5°	4014.0	3981.1	3873.4	3668.2	3393.8	3171.5	3035.5	3002.6	3033.2	3070.6	3081.9
30°	4435.8	4401.8	4273.7	4049.2	3744.1	3462.9	3267.9	3214.6	3257.7	3311.0	3317.8
32.5°	4857.6	4857.6	4714.8	4452.8	4120.6	3811.0	3577.5	3514.0	3585.4	3650.0	3664.8
35°	5362.2	5364.5	5226.1	4910.9	4553.7	4226.0	3968.7	3922.2	4029.9	4075.2	4110.4
37.5°	5982.5	5994.9	5816.9	5435.9	5044.7	4700.0	4393.9	4330.4	4438.1	4561.7	4675.1
40°	6652.6	6668.5	6472.3	6002.9	5611.7	5251.1	4920.0	4805.5	4984.6	5220.5	5366.7
42.5°	7292.1	7373.8	7184.4	6701.4	6280.7	5907.6	5572.0	5405.3	5629.8	5985.9	6112.9
45°	8216.2	8275.2	7945.2	7507.6	7111.8	6694.5	6250.1	6074.3	6388.4	6837.4	6863.5
47.5°	8831.9	8787.7	8619.9	8347.8	8097.2	7707.1	7038.1	6845.4	7262.6	7791.0	7644.8
50°	9159.6	9173.3	9150.6	9166.4	9175.5	8930.6	8004.2	7740.0	8237.8	8876.2	8539.4
52.5°	9465.8	9375.1	9449.9	9821.8	10270.9	10180.2	9055.3	8779.8	9283.2	10080.4	9485.1
55°	9459.0	9320.7	9564.4	10221.0	11195.0	11299.3	10235.7	9918.2	10388.8	11371.9	10487.4
57.5°	9124.5	9131.3	9506.6	10366.1	11839.1	12351.6	11605.5	11129.2	11561.2	12680.4	11402.5
60°	8664.1	8726.5	9267.4	10342.3	12355.0	13214.5	13285.9	12434.3	12709.9	13869.9	12159.9
62.5°	7921.4	7987.2	8733.3	10095.1	12276.7	14045.6	14805.3	13915.2	13910.7	14591.0	12382.2
65°	6750.1	6730.8	7514.4	9171.0	11620.2	14660.2	16314.6	15195.4	14815.5	14602.4	11935.4
67.5°	4977.8	4891.6	5564.0	6984.8	9658.6	13971.9	17202.4	15862.1	15124.0	13642.0	10570.2
70°	2583.0	2496.8	3041.1	4078.6	6352.1	10904.7	16219.3	15517.4	14442.5	11435.4	8280.9
72.5°	1104.4	1089.7	1310.8	1789.3	3072.9	6289.7	12717.8	13431.0	12392.4	8520.1	5693.3
75°	742.7	738.2	820.9	975.2	1382.2	2552.4	7958.8	9533.8	9066.7	5282.8	3202.1
77.5°	582.8	577.2	625.9	700.8	895.8	1006.9	3532.1	5118.4	4737.4	2299.5	1401.5
80°	455.8	451.3	481.9	522.7	644.1	635.0	1162.2	2036.5	1576.1	881.0	681.5
82.5°	359.4	359.4	384.4	385.5	457.0	433.1	606.6	896.9	786.9	513.7	417.3
85°	328.8	328.8	354.9	288.0	298.2	273.3	376.5	531.8	498.9	210.9	181.4
87.5°	165.5	161.0	298.2	255.1	162.1	145.1	183.7	257.4	276.7	116.8	90.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8
2.5°	2881.2	2880.1	2882.4	2883.5	2892.6	2905.1	2910.7	2918.7	2923.2	2920.9
5°	2847.2	2849.5	2858.6	2865.4	2881.2	2901.7	2913.0	2922.1	2930.0	2926.6
7.5°	2818.9	2824.5	2838.2	2843.8	2852.9	2858.6	2857.4	2860.8	2867.6	2859.7
10°	2803.0	2809.8	2820.0	2812.1	2790.5	2759.9	2731.6	2716.8	2721.4	2715.7
12.5°	2787.1	2796.2	2788.3	2750.8	2690.7	2651.1	2629.5	2631.8	2642.0	2644.3
15°	2778.1	2781.5	2747.4	2677.1	2615.9	2610.2	2621.6	2619.3	2620.4	2620.4
17.5°	2778.1	2769.0	2705.5	2635.2	2609.1	2598.9	2563.7	2519.5	2500.2	2493.4
20°	2792.8	2769.0	2691.9	2645.4	2588.7	2501.4	2408.4	2326.8	2290.5	2280.3
22.5°	2837.0	2796.2	2730.4	2649.9	2488.9	2342.6	2195.2	2097.7	2031.9	2020.6
25°	2926.6	2881.2	2806.4	2589.8	2330.2	2121.5	1953.7	1844.9	1779.1	1770.0
27.5°	3083.1	3053.6	2847.2	2457.2	2119.3	1895.9	1740.5	1656.6	1607.9	1604.5
30°	3318.9	3304.2	2826.8	2261.0	1859.6	1677.0	1602.2	1553.4	1517.2	1516.0
32.5°	3695.4	3576.3	2759.9	2021.7	1622.6	1521.7	1491.1	1461.6	1433.2	1433.2
35°	4179.6	3796.3	2632.9	1765.5	1478.6	1435.5	1397.0	1350.5	1313.1	1310.8
37.5°	4748.8	3932.4	2405.0	1559.1	1410.6	1377.7	1321.0	1251.8	1186.1	1174.7
40°	5323.7	3973.2	2084.1	1432.1	1367.5	1319.9	1250.7	1169.1	1105.6	1102.2
42.5°	5850.9	3894.9	1743.9	1344.8	1324.4	1260.9	1188.3	1115.8	1065.9	1064.7
45°	6293.1	3692.0	1458.2	1262.0	1279.0	1207.6	1143.0	1084.0	1045.5	1037.5
47.5°	6709.3	3405.1	1257.5	1174.7	1233.7	1178.1	1123.7	1068.1	1030.7	1025.0
50°	7192.3	3095.5	1116.9	1089.7	1194.0	1167.9	1139.6	1081.7	1019.4	1012.6
52.5°	7777.4	2827.9	1006.9	1014.8	1163.4	1181.5	1180.4	1120.3	1011.4	1002.4
55°	8430.5	2530.9	924.1	953.6	1150.9	1206.5	1190.6	1156.6	1018.2	1004.6
57.5°	9073.5	2183.9	866.3	907.1	1132.8	1204.2	1141.8	1093.1	1034.1	1014.8
60°	9555.4	1717.9	822.1	866.3	1093.1	1166.8	1088.5	1023.9	1030.7	1016.0
62.5°	9587.1	1327.8	768.8	831.1	1033.0	1129.4	1053.4	993.3	1045.5	1031.8
65°	9023.6	1003.5	717.8	789.2	968.4	1105.6	1019.4	976.3	1076.1	1061.3
67.5°	7597.1	807.3	674.7	746.1	903.7	1055.7	988.8	960.4	1103.3	1077.2
70°	5484.7	688.3	632.7	693.9	845.9	999.0	961.5	932.1	1029.6	988.8
72.5°	3376.8	596.4	585.1	624.8	801.7	940.0	920.7	878.8	927.5	894.6
75°	1686.1	517.1	531.8	556.7	739.3	873.1	852.7	810.7	817.5	810.7
77.5°	807.3	442.2	469.4	488.7	658.8	797.1	775.6	732.5	724.6	725.7
80°	511.4	369.7	395.7	409.3	588.5	708.7	687.1	644.1	734.8	681.5
82.5°	319.8	300.5	307.3	332.2	512.5	616.8	588.5	549.9	662.2	523.9
85°	176.9	209.8	218.8	240.4	394.6	515.9	487.6	438.8	393.5	386.7
87.5°	105.5	124.7	128.1	144.0	265.3	373.1	330.0	313.0	259.7	258.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)