

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: P192234

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192234
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-T3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23461 lumens
Efficiency: N/A
Efficacy: 121.6 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): 193
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

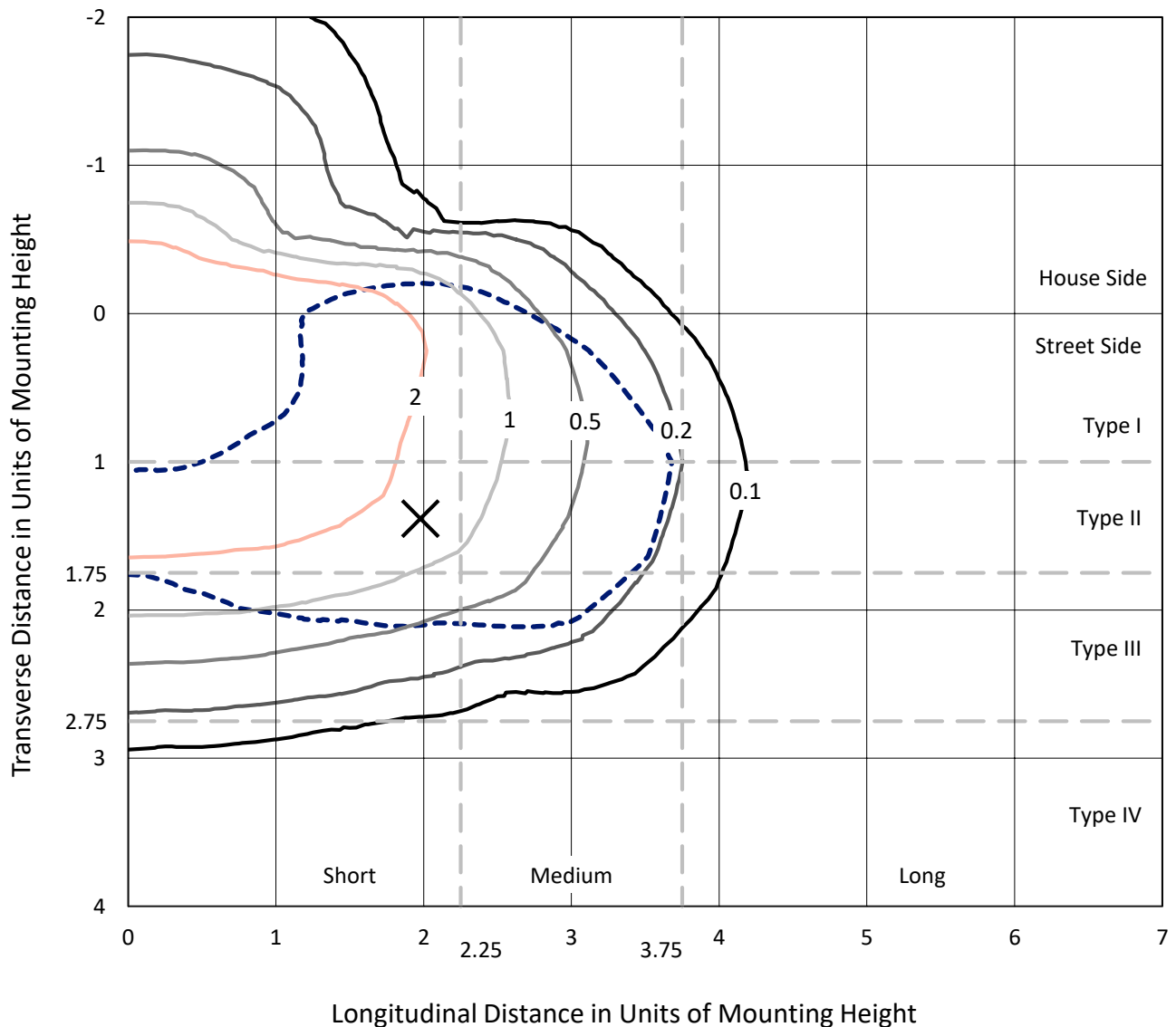


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Iso-Footcandle Lines of Horizontal Illumination

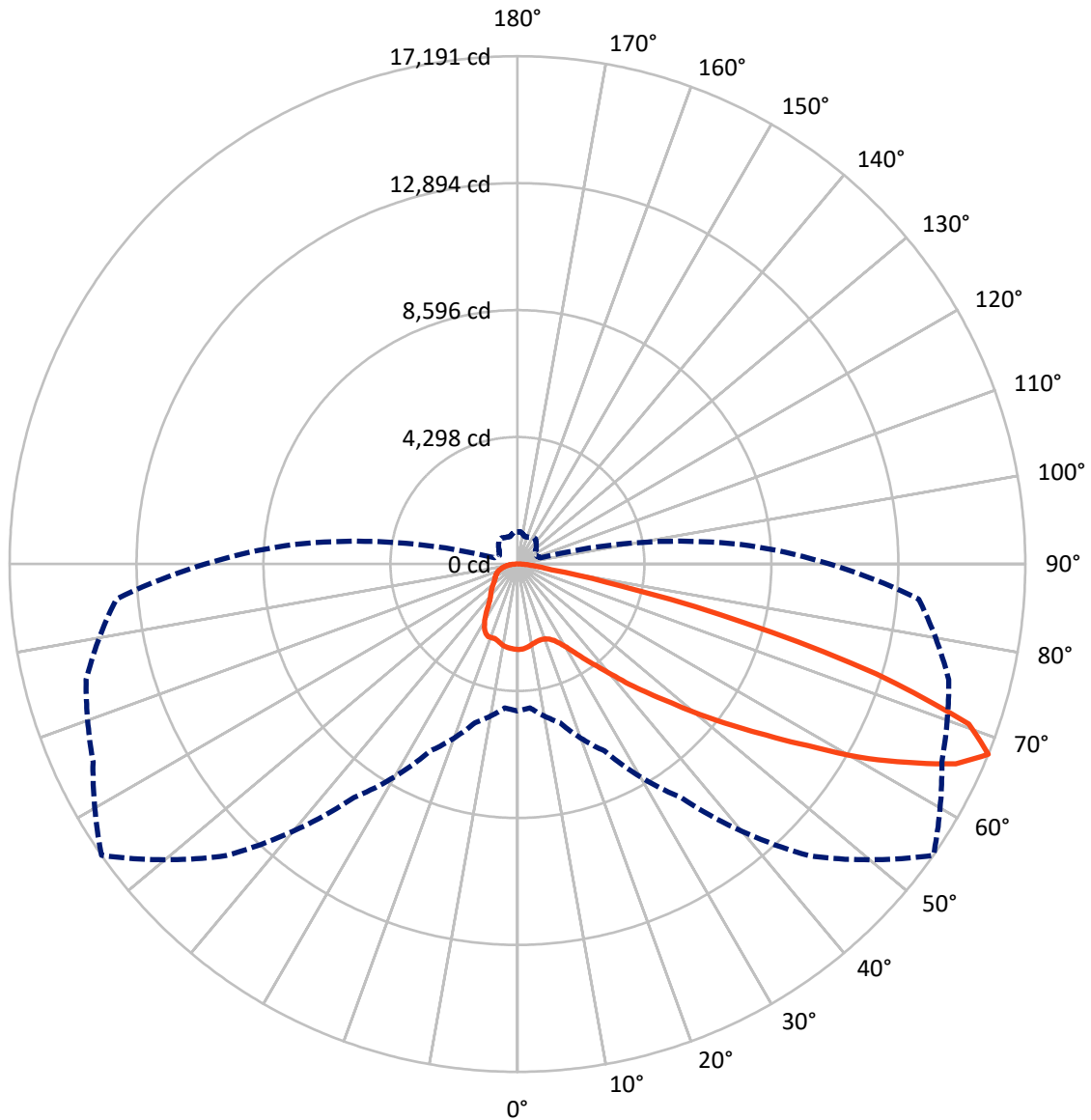
× Max cd
 - - - 1/2 Max cd



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	5068.1	0.0	5068.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18392.9	0.0	18392.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	23461.0	0.0	23461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.2
10°-20°	764.8	3.3
20°-30°	1281.1	5.5
30°-40°	2106.7	9.0
40°-50°	3546.1	15.1
50°-60°	5581.4	23.8
60°-70°	6660.7	28.4
70°-80°	2860.3	12.2
80°-90°	390.0	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°	23461.0	100.0
0°-180°	23461.0	100.0



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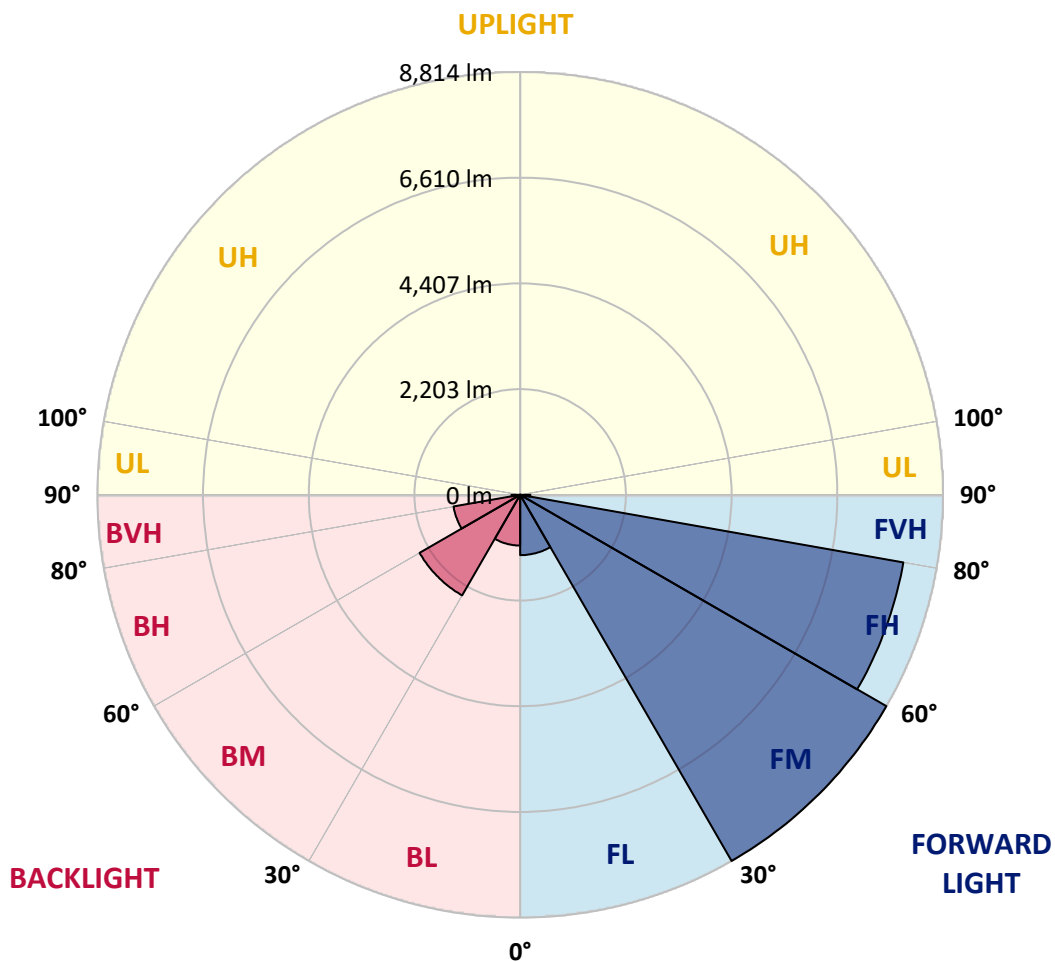
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.6	5.4			
FM	(30°-60°)	8813.7	37.6			
FH	(60°-80°)	8110.6	34.6			G4/12000
FVH	(80°-90°)	211.1	0.9			G2/225
BL	(0°-30°)	1058.3	4.5	B3/2500		
BM	(30°-60°)	2420.5	10.3	B2/2500		
BH	(60°-80°)	1410.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	178.9	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°	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0
2.5°	2868.1	2869.2	2871.5	2880.5	2888.5	2886.2	2887.3	2882.8	2881.7	2874.9	2881.7
5°	2831.8	2835.2	2836.3	2851.1	2860.1	2862.4	2859.0	2853.3	2846.5	2839.7	2843.1
7.5°	2749.1	2758.1	2759.3	2779.7	2794.4	2813.7	2814.8	2815.9	2812.5	2808.0	2814.8
10°	2697.0	2699.2	2698.1	2712.8	2724.2	2745.7	2758.1	2779.7	2788.7	2791.0	2795.5
12.5°	2693.6	2691.3	2687.9	2687.9	2684.5	2693.6	2716.2	2746.8	2768.3	2775.1	2780.8
15°	2729.8	2728.7	2717.4	2700.4	2678.8	2672.0	2691.3	2725.3	2753.6	2768.3	2774.0
17.5°	2811.4	2804.6	2786.5	2748.0	2701.5	2683.4	2685.6	2714.0	2746.8	2766.1	2771.7
20°	2961.0	2961.0	2922.5	2849.9	2767.2	2724.2	2703.8	2720.8	2752.5	2778.5	2786.5
22.5°	3219.4	3221.6	3157.0	3038.0	2898.7	2806.9	2755.9	2752.5	2789.9	2819.3	2828.4
25°	3585.4	3576.3	3485.6	3315.7	3103.8	2951.9	2863.5	2843.1	2874.9	2907.7	2919.1
27.5°	4011.4	3978.6	3870.9	3665.8	3391.6	3169.5	3033.5	3000.6	3031.2	3068.6	3080.0
30°	4433.0	4399.0	4270.9	4046.6	3741.7	3460.7	3265.8	3212.6	3255.6	3308.9	3315.7
32.5°	4854.5	4854.5	4711.7	4450.0	4118.0	3808.6	3575.2	3511.7	3583.1	3647.7	3662.4
35°	5358.8	5361.1	5222.8	4907.8	4550.8	4223.3	3966.1	3919.7	4027.3	4072.6	4107.8
37.5°	5978.6	5991.1	5813.2	5432.4	5041.5	4697.0	4391.1	4327.6	4435.2	4558.8	4672.1
40°	6648.3	6664.2	6468.2	5999.0	5608.1	5247.7	4916.8	4802.4	4981.4	5217.1	5363.3
42.5°	7287.5	7369.0	7179.8	6697.1	6276.7	5903.8	5568.4	5401.8	5626.2	5982.0	6109.0
45°	8211.0	8269.9	7940.2	7502.8	7107.3	6690.3	6246.1	6070.4	6384.3	6833.0	6859.1
47.5°	8826.3	8782.1	8614.4	8342.4	8092.0	7702.2	7033.6	6841.0	7258.0	7786.1	7639.9
50°	9153.8	9167.4	9144.7	9160.6	9169.7	8924.9	7999.1	7735.1	8232.5	8870.5	8533.9
52.5°	9459.8	9369.1	9443.9	9815.6	10264.3	10173.7	9049.5	8774.2	9277.3	10073.9	9479.0
55°	9453.0	9314.7	9558.3	10214.4	11187.8	11292.1	10229.2	9911.9	10382.2	11364.6	10480.7
57.5°	9118.7	9125.5	9500.5	10359.5	11831.5	12343.7	11598.1	11122.1	11553.9	12672.3	11395.2
60°	8658.6	8720.9	9261.4	10335.7	12347.1	13206.0	13277.4	12426.4	12701.8	13861.0	12152.2
62.5°	7916.4	7982.1	8727.7	10088.7	12268.9	14036.6	14795.9	13906.3	13901.8	14581.7	12374.3
65°	6745.8	6726.5	7509.6	9165.1	11612.8	14650.8	16304.1	15185.7	14806.1	14593.0	11927.8
67.5°	4974.6	4888.5	5560.5	6980.4	9652.4	13963.0	17191.4	15852.0	15114.3	13633.2	10563.5
70°	2581.4	2495.3	3039.2	4076.0	6348.1	10897.8	16208.9	15507.5	14433.3	11428.1	8275.6
72.5°	1103.7	1089.0	1310.0	1788.2	3070.9	6285.7	12709.7	13422.5	12384.5	8514.7	5689.7
75°	742.2	737.7	820.4	974.5	1381.3	2550.8	7953.8	9527.7	9060.9	5279.5	3200.1
77.5°	582.5	576.8	625.5	700.3	895.2	1006.3	3529.8	5115.2	4734.4	2298.1	1400.6
80°	455.5	451.0	481.6	522.4	643.6	634.6	1161.5	2035.2	1575.1	880.5	681.0
82.5°	359.2	359.2	384.1	385.3	456.7	432.9	606.2	896.3	786.4	513.3	417.0
85°	328.6	328.6	354.7	287.8	298.0	273.1	376.2	531.5	498.6	210.8	181.3
87.5°	165.4	160.9	298.0	255.0	162.0	145.0	183.6	257.2	276.5	116.7	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°	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0
2.5°	2879.4	2878.3	2880.5	2881.7	2890.7	2903.2	2908.9	2916.8	2921.3	2919.1
5°	2845.4	2847.7	2856.7	2863.5	2879.4	2899.8	2911.1	2920.2	2928.1	2924.7
7.5°	2817.1	2822.7	2836.3	2842.0	2851.1	2856.7	2855.6	2859.0	2865.8	2857.9
10°	2801.2	2808.0	2818.2	2810.3	2788.7	2758.1	2729.8	2715.1	2719.6	2714.0
12.5°	2785.3	2794.4	2786.5	2749.1	2689.0	2649.4	2627.8	2630.1	2640.3	2642.6
15°	2776.3	2779.7	2745.7	2675.4	2614.2	2608.6	2619.9	2617.6	2618.8	2618.8
17.5°	2776.3	2767.2	2703.8	2633.5	2607.4	2597.2	2562.1	2517.9	2498.7	2491.9
20°	2791.0	2767.2	2690.2	2643.7	2587.0	2499.8	2406.9	2325.3	2289.0	2278.8
22.5°	2835.2	2794.4	2728.7	2648.2	2487.3	2341.1	2193.8	2096.4	2030.7	2019.3
25°	2924.7	2879.4	2804.6	2588.2	2328.7	2120.2	1952.5	1843.7	1778.0	1768.9
27.5°	3081.1	3051.6	2845.4	2455.6	2117.9	1894.7	1739.4	1655.6	1606.8	1603.4
30°	3316.8	3302.1	2825.0	2259.6	1858.4	1676.0	1601.2	1552.5	1516.2	1515.1
32.5°	3693.0	3574.0	2758.1	2020.5	1621.6	1520.7	1490.1	1460.7	1432.3	1432.3
35°	4176.9	3793.9	2631.2	1764.4	1477.7	1434.6	1396.1	1349.6	1312.2	1310.0
37.5°	4745.7	3929.9	2403.5	1558.1	1409.7	1376.8	1320.1	1251.0	1185.3	1174.0
40°	5320.3	3970.6	2082.8	1431.2	1366.6	1319.0	1249.9	1168.3	1104.8	1101.4
42.5°	5847.2	3892.5	1742.8	1343.9	1323.5	1260.1	1187.6	1115.0	1065.2	1064.1
45°	6289.1	3689.6	1457.3	1261.2	1278.2	1206.8	1142.2	1083.3	1044.8	1036.9
47.5°	6705.0	3402.9	1256.7	1174.0	1232.9	1177.4	1123.0	1067.5	1030.1	1024.4
50°	7187.7	3093.6	1116.2	1089.0	1193.2	1167.2	1138.8	1081.0	1018.7	1011.9
52.5°	7772.5	2826.1	1006.3	1014.2	1162.6	1180.8	1179.6	1119.6	1010.8	1001.7
55°	8425.2	2529.2	923.5	953.0	1150.2	1205.7	1189.8	1155.8	1017.6	1004.0
57.5°	9067.7	2182.5	865.7	906.5	1132.0	1203.4	1141.1	1092.4	1033.5	1014.2
60°	9549.3	1716.8	821.6	865.7	1092.4	1166.0	1087.8	1023.3	1030.1	1015.3
62.5°	9581.0	1326.9	768.3	830.6	1032.3	1128.6	1052.7	992.7	1044.8	1031.2
65°	9017.8	1002.9	717.3	788.7	967.7	1104.8	1018.7	975.7	1075.4	1060.7
67.5°	7592.3	806.8	674.2	745.6	903.1	1055.0	988.1	959.8	1102.6	1076.5
70°	5481.2	687.8	632.3	693.5	845.3	998.3	960.9	931.5	1028.9	988.1
72.5°	3374.6	596.1	584.7	624.4	801.2	939.4	920.1	878.2	926.9	894.1
75°	1685.0	516.7	531.5	556.4	738.8	872.5	852.1	810.2	817.0	810.2
77.5°	806.8	441.9	469.1	488.4	658.4	796.6	775.1	732.0	724.1	725.2
80°	511.1	369.4	395.5	409.1	588.1	708.2	686.7	643.6	734.3	681.0
82.5°	319.6	300.3	307.1	332.0	512.2	616.4	588.1	549.6	661.8	523.5
85°	176.8	209.6	218.7	240.2	394.3	515.6	487.3	438.5	393.2	386.4
87.5°	105.4	124.6	128.0	143.9	265.2	372.8	329.8	312.8	259.5	258.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)