

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: P269268

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269268
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-04-LED-E1-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22889.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

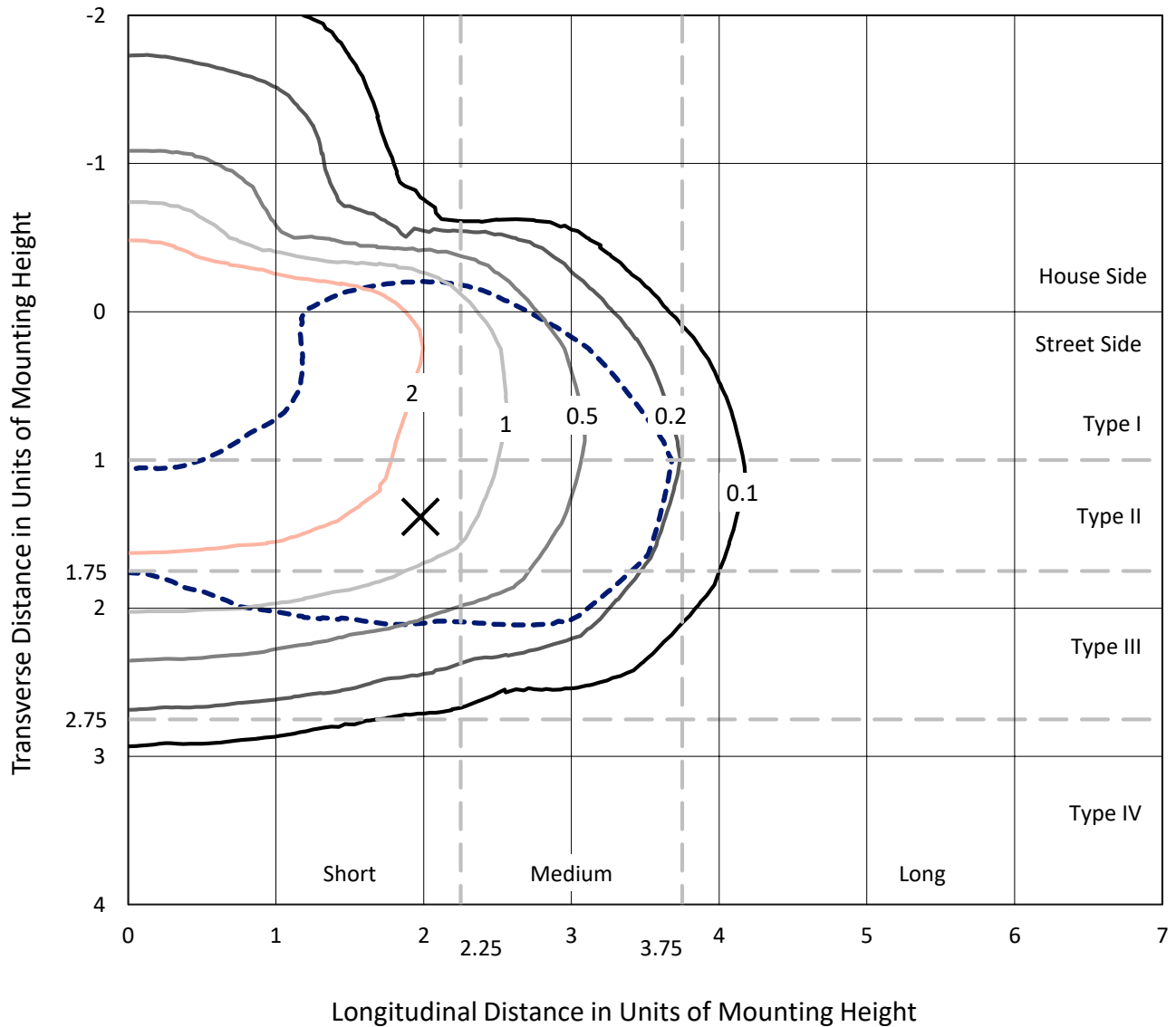


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Iso-Footcandle Lines of Horizontal Illumination

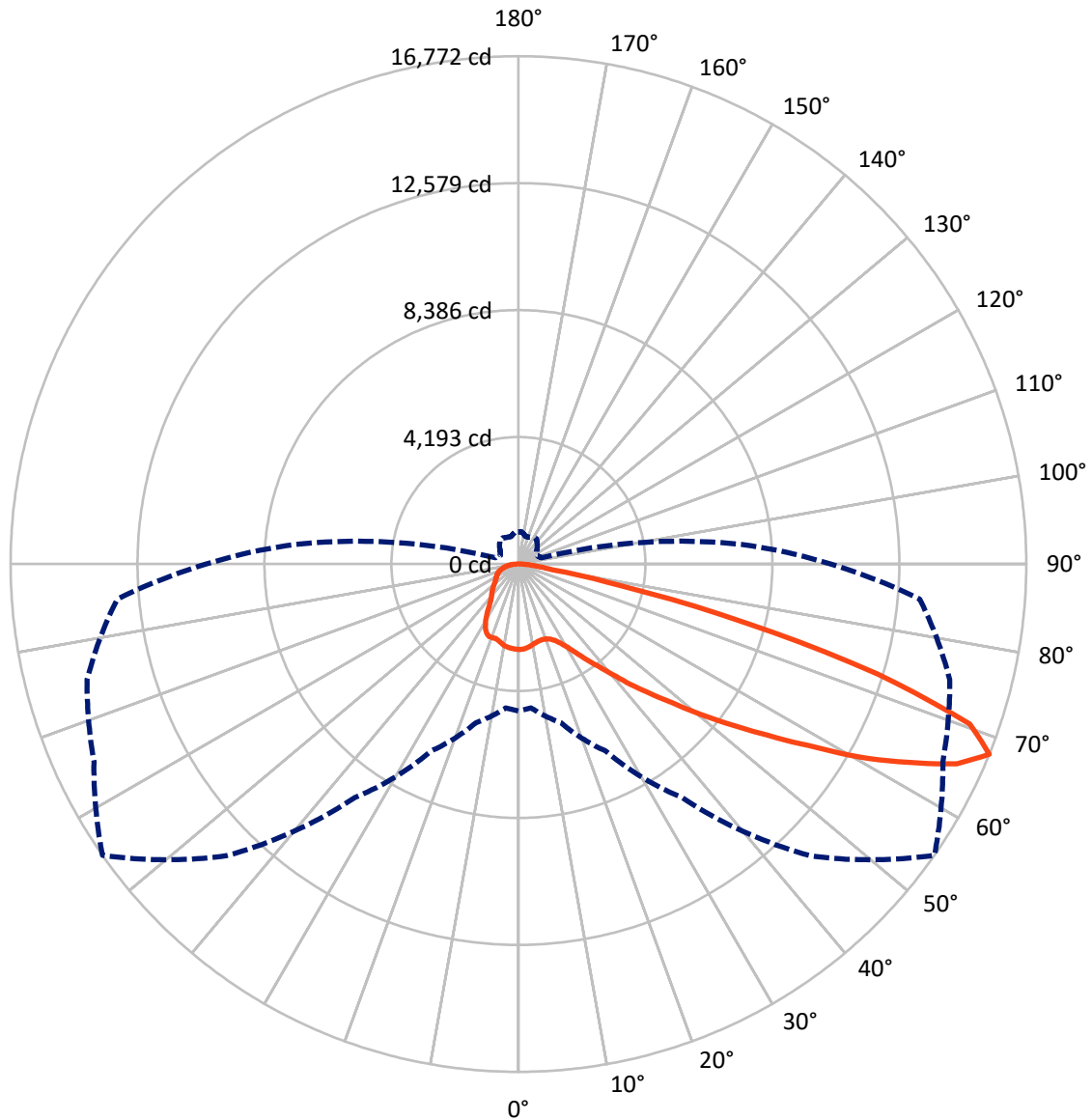
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	4944.5	0.0	4944.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17944.6	0.0	17944.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	22889.1	0.0	22889.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	1.2
10°-20°	746.1	3.3
20°-30°	1249.8	5.5
30°-40°	2055.3	9.0
40°-50°	3459.7	15.1
50°-60°	5445.3	23.8
60°-70°	6498.4	28.4
70°-80°	2790.5	12.2
80°-90°	380.5	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°	22889.1	100.0
0°-180°	22889.1	100.0



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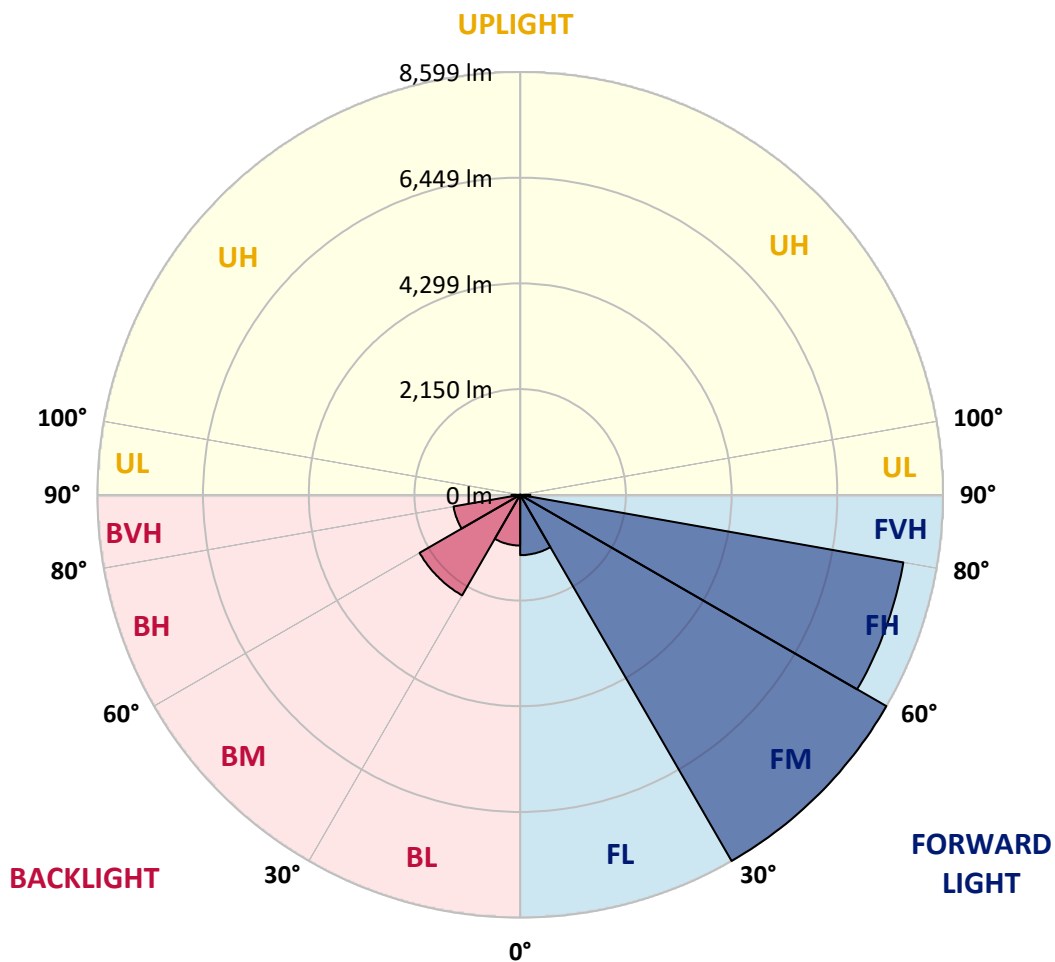
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.9	5.4			
FM (30°-60°)	8598.8	37.6			
FH (60°-80°)	7912.9	34.6			G4/12000
FVH (80°-90°)	205.9	0.9			G2/225
BL (0°-30°)	1032.5	4.5	B3/2500		
BM (30°-60°)	2361.5	10.3	B2/2500		
BH (60°-80°)	1376.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	174.5	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°	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5
2.5°	2798.2	2799.3	2801.5	2810.3	2818.1	2815.8	2816.9	2812.6	2811.4	2804.8	2811.4
5°	2762.7	2766.2	2767.1	2781.6	2790.4	2792.7	2789.2	2783.8	2777.2	2770.6	2773.8
7.5°	2682.1	2691.0	2692.0	2712.0	2726.3	2745.1	2746.2	2747.2	2744.1	2739.7	2746.2
10°	2631.2	2633.4	2632.4	2646.6	2657.7	2678.7	2691.0	2712.0	2720.7	2723.0	2727.4
12.5°	2627.9	2625.7	2622.4	2622.4	2619.1	2627.9	2650.0	2679.9	2700.8	2707.5	2713.1
15°	2663.3	2662.1	2651.1	2634.5	2613.4	2606.9	2625.7	2658.9	2686.6	2700.8	2706.5
17.5°	2742.9	2736.2	2718.6	2681.0	2635.6	2617.9	2620.1	2647.8	2679.9	2698.7	2704.2
20°	2888.8	2888.8	2851.2	2780.4	2699.8	2657.7	2637.9	2654.4	2685.5	2710.8	2718.6
22.5°	3140.8	3143.1	3080.1	2964.0	2828.0	2738.5	2688.6	2685.5	2721.9	2750.6	2759.5
25°	3498.0	3489.1	3400.7	3234.8	3028.0	2880.0	2793.6	2773.8	2804.8	2836.8	2847.8
27.5°	3913.6	3881.5	3776.6	3576.4	3308.9	3092.2	2959.6	2927.4	2957.4	2993.8	3004.9
30°	4324.9	4291.7	4166.9	3948.0	3650.5	3376.4	3186.2	3134.2	3176.2	3228.1	3234.8
32.5°	4736.3	4736.3	4596.8	4341.5	4017.6	3715.7	3487.9	3426.1	3495.8	3558.7	3573.2
35°	5228.1	5230.4	5095.5	4788.1	4440.0	4120.3	3869.4	3824.2	3929.1	3973.4	4007.6
37.5°	5833.0	5845.0	5671.4	5300.0	4918.6	4582.6	4284.0	4222.2	4327.1	4447.7	4558.2
40°	6486.3	6501.8	6310.6	5852.7	5471.3	5119.8	4796.9	4685.3	4860.0	5089.9	5232.5
42.5°	7109.8	7189.5	7004.9	6533.8	6123.7	5759.9	5432.7	5270.1	5489.1	5836.2	5960.1
45°	8010.8	8068.3	7746.7	7319.8	6934.0	6527.2	6093.8	5922.4	6228.7	6666.5	6692.0
47.5°	8611.2	8568.0	8404.5	8139.2	7894.8	7514.4	6862.2	6674.2	7081.1	7596.2	7453.6
50°	8930.7	8944.0	8921.8	8937.2	8946.1	8707.4	7804.1	7546.5	8031.8	8654.4	8325.9
52.5°	9229.1	9140.8	9213.6	9576.3	10014.1	9925.6	8828.9	8560.3	9051.1	9828.4	9248.1
55°	9222.4	9087.7	9325.3	9965.4	10915.1	11016.9	9979.8	9670.3	10129.1	11087.6	10225.2
57.5°	8896.5	8903.0	9269.0	10107.0	11543.1	12042.8	11315.3	10850.9	11272.2	12363.5	11117.5
60°	8447.5	8508.3	9035.7	10083.7	12046.1	12884.1	12953.7	12123.5	12392.2	13523.2	11856.0
62.5°	7723.4	7787.5	8514.9	9842.8	11969.8	13694.5	14435.3	13567.3	13562.9	14226.3	12072.6
65°	6581.3	6562.6	7326.4	8941.6	11329.8	14293.7	15906.6	14815.6	14445.1	14237.3	11637.1
67.5°	4853.5	4769.3	5425.0	6810.2	9417.1	13622.6	16772.3	15465.6	14745.9	13300.9	10306.0
70°	2518.5	2434.4	2965.0	3976.6	6193.4	10632.1	15813.9	15129.6	14081.4	11149.6	8073.8
72.5°	1076.8	1062.4	1278.0	1744.6	2996.0	6132.5	12399.9	13095.3	12082.7	8307.2	5550.9
75°	724.2	719.7	800.4	950.8	1347.6	2488.7	7759.9	9295.5	8840.0	5150.8	3122.1
77.5°	568.3	562.7	610.3	683.3	873.4	981.8	3443.8	4990.4	4619.1	2242.1	1366.4
80°	444.4	440.0	469.9	509.7	627.9	619.1	1133.2	1985.6	1536.7	859.0	664.4
82.5°	350.5	350.5	374.9	375.9	445.5	422.4	591.4	874.5	767.2	500.9	406.8
85°	320.6	320.6	346.0	280.8	290.7	266.4	367.0	518.5	486.4	205.6	176.8
87.5°	161.4	157.1	290.7	248.7	158.1	141.6	179.1	250.9	269.8	113.8	88.5
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°	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5	2822.5
2.5°	2809.2	2808.1	2810.3	2811.4	2820.3	2832.4	2837.9	2845.7	2850.1	2847.8
5°	2776.0	2778.3	2787.1	2793.6	2809.2	2829.1	2840.3	2849.1	2856.8	2853.5
7.5°	2748.5	2753.9	2767.1	2772.7	2781.6	2787.1	2786.1	2789.2	2796.0	2788.2
10°	2733.0	2739.7	2749.5	2741.7	2720.7	2691.0	2663.3	2648.9	2653.4	2647.8
12.5°	2717.5	2726.3	2718.6	2682.1	2623.5	2584.9	2563.9	2566.0	2575.9	2578.1
15°	2708.6	2712.0	2678.7	2610.3	2550.5	2545.0	2556.0	2553.8	2554.9	2554.9
17.5°	2708.6	2699.8	2637.9	2569.3	2543.9	2533.8	2499.7	2456.5	2437.7	2431.2
20°	2723.0	2699.8	2624.6	2579.3	2524.0	2438.9	2348.2	2268.6	2233.2	2223.2
22.5°	2766.2	2726.3	2662.1	2583.6	2426.7	2284.1	2140.3	2045.4	1981.1	1970.2
25°	2853.5	2809.2	2736.2	2525.0	2272.0	2068.4	1904.9	1798.8	1734.5	1725.7
27.5°	3006.0	2977.3	2776.0	2395.7	2066.3	1848.5	1697.0	1615.2	1567.7	1564.4
30°	3236.0	3221.6	2756.1	2204.5	1813.0	1635.2	1562.2	1514.6	1479.1	1478.2
32.5°	3603.0	3487.0	2691.0	1971.2	1582.1	1483.6	1453.7	1425.0	1397.5	1397.5
35°	4075.2	3701.3	2567.0	1721.3	1441.6	1399.6	1362.0	1316.7	1280.3	1278.0
37.5°	4630.0	3834.1	2344.8	1520.1	1375.3	1343.2	1288.0	1220.5	1156.4	1145.3
40°	5190.5	3873.9	2032.0	1396.3	1333.4	1286.8	1219.4	1139.8	1078.0	1074.6
42.5°	5704.6	3797.6	1700.3	1311.2	1291.4	1229.4	1158.6	1087.8	1039.2	1038.1
45°	6135.9	3599.7	1421.7	1230.5	1247.0	1177.4	1114.3	1056.9	1019.3	1011.6
47.5°	6541.5	3320.0	1226.0	1145.3	1202.8	1148.7	1095.7	1041.5	1004.9	999.5
50°	7012.4	3018.1	1088.9	1062.4	1164.2	1138.7	1111.1	1054.7	993.9	987.2
52.5°	7583.0	2757.3	981.8	989.5	1134.3	1151.9	1150.9	1092.2	986.2	977.3
55°	8219.9	2467.6	901.0	929.7	1122.2	1176.3	1160.8	1127.6	992.7	979.5
57.5°	8846.7	2129.3	844.6	884.4	1104.5	1174.2	1113.3	1065.7	1008.3	989.5
60°	9316.5	1674.9	801.5	844.6	1065.7	1137.7	1061.3	998.3	1004.9	990.7
62.5°	9347.5	1294.5	749.5	810.5	1007.2	1101.1	1027.0	968.5	1019.3	1006.0
65°	8798.0	978.4	699.8	769.5	944.2	1078.0	993.9	951.8	1049.2	1034.8
67.5°	7407.2	787.2	657.7	727.4	881.1	1029.3	964.1	936.5	1075.7	1050.3
70°	5347.6	671.0	616.9	676.7	824.7	974.0	937.6	908.7	1003.9	964.1
72.5°	3292.4	581.6	570.5	609.2	781.6	916.5	897.6	856.9	904.4	872.3
75°	1644.0	504.0	518.5	542.8	720.8	851.2	831.4	790.5	797.1	790.5
77.5°	787.2	431.1	457.6	476.6	642.3	777.3	756.3	714.2	706.4	707.5
80°	498.6	360.4	385.8	399.0	573.7	690.9	670.0	627.9	716.4	664.4
82.5°	311.7	292.9	299.7	323.8	499.6	601.4	573.7	536.2	645.6	510.7
85°	172.5	204.5	213.3	234.4	384.7	503.1	475.5	427.9	383.7	377.0
87.5°	102.9	121.6	125.0	140.4	258.7	363.8	321.8	305.2	253.1	252.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)