

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: P269265

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269265
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20866.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 225
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

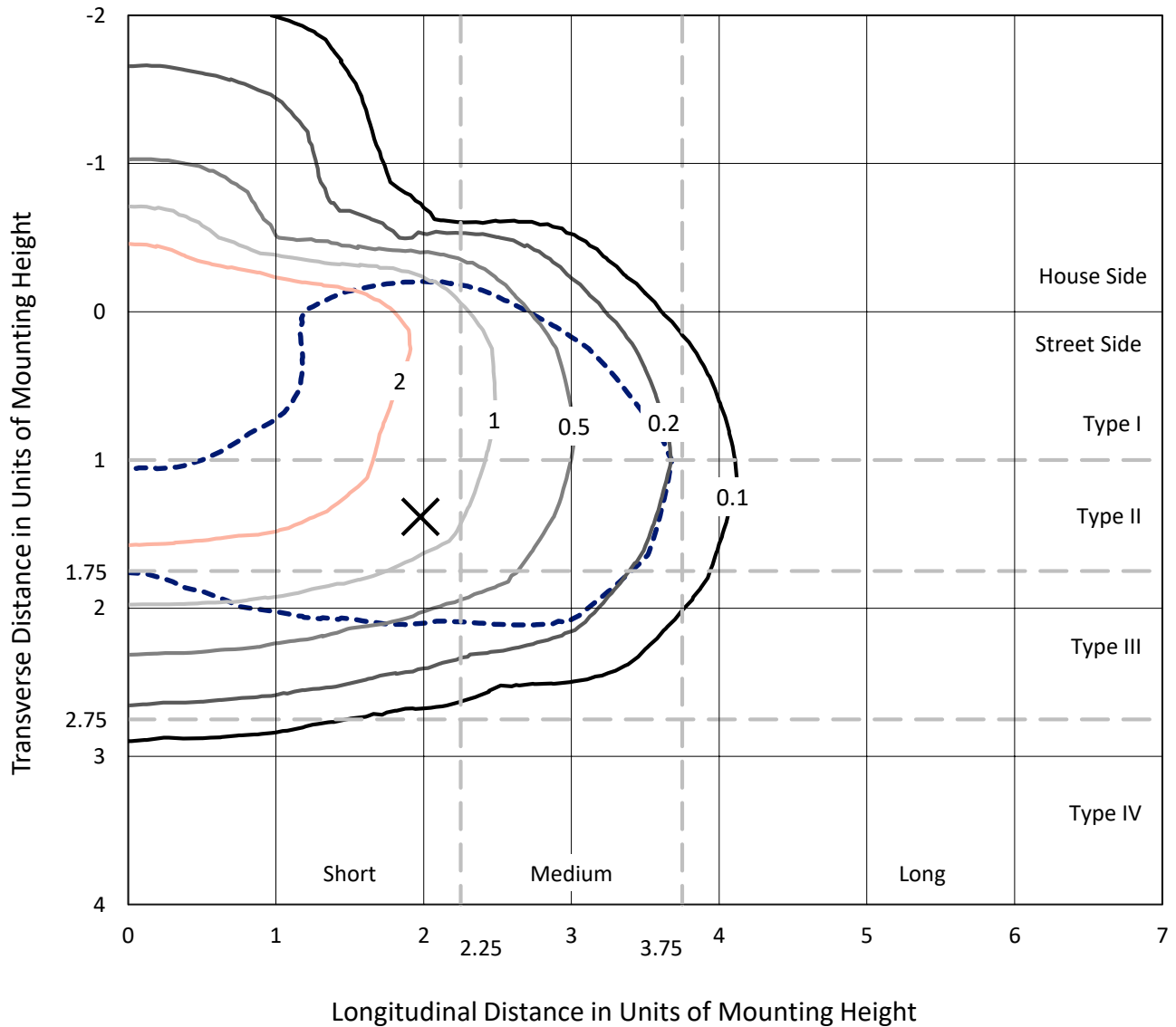


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

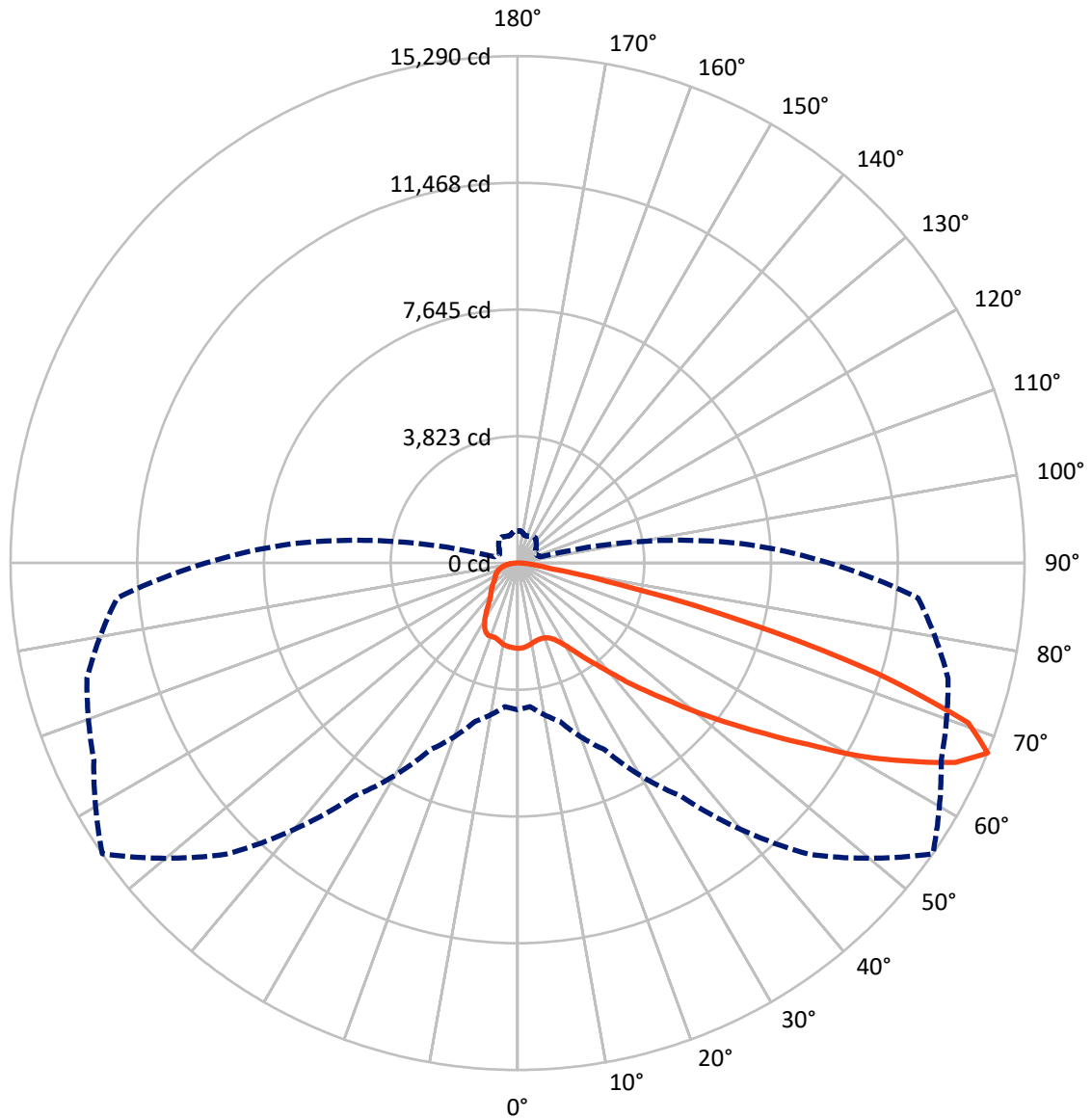


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Full Cutoff

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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	4507.6	0.0	4507.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16358.7	0.0	16358.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	20866.3	0.0	20866.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.2
10°-20°	680.2	3.3
20°-30°	1139.4	5.5
30°-40°	1873.7	9.0
40°-50°	3154.0	15.1
50°-60°	4964.1	23.8
60°-70°	5924.1	28.4
70°-80°	2543.9	12.2
80°-90°	346.8	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°	20866.3	100.0
0°-180°	20866.3	100.0



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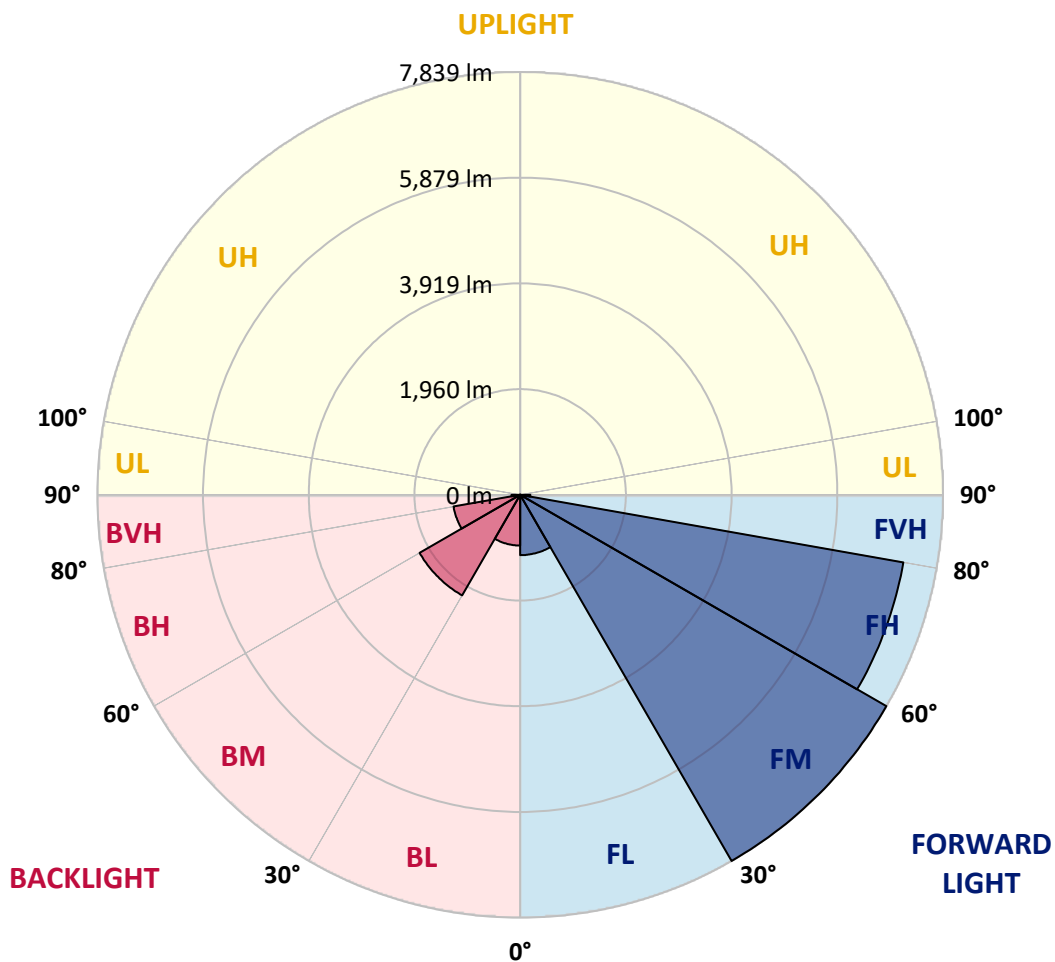
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.5	5.4			
FM (30°-60°)	7838.9	37.6			
FH (60°-80°)	7213.6	34.6			G3/7500
FVH (80°-90°)	187.7	0.9			G2/225
BL (0°-30°)	941.3	4.5	B2/1000		
BM (30°-60°)	2152.8	10.3	B2/2500		
BH (60°-80°)	1254.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	159.1	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0
2.5°	2550.8	2551.8	2553.9	2562.0	2569.1	2566.9	2568.1	2563.9	2563.0	2556.9	2563.0
5°	2518.6	2521.6	2522.6	2535.7	2543.8	2545.8	2542.8	2537.7	2531.8	2525.7	2528.6
7.5°	2445.0	2453.1	2454.1	2472.2	2485.4	2502.5	2503.4	2504.6	2501.5	2497.5	2503.4
10°	2398.7	2400.7	2399.7	2412.8	2422.9	2442.0	2453.1	2472.2	2480.3	2482.3	2486.4
12.5°	2395.7	2393.7	2390.6	2390.6	2387.5	2395.7	2415.8	2443.0	2462.2	2468.3	2473.3
15°	2427.8	2427.0	2416.8	2401.7	2382.6	2376.6	2393.7	2423.8	2449.0	2462.2	2467.3
17.5°	2500.5	2494.5	2478.3	2444.1	2402.6	2386.5	2388.7	2413.7	2443.0	2460.2	2465.2
20°	2633.6	2633.6	2599.2	2534.7	2461.1	2422.9	2404.8	2419.9	2448.2	2471.2	2478.3
22.5°	2863.3	2865.4	2807.9	2702.0	2578.0	2496.4	2451.0	2448.2	2481.3	2507.4	2515.7
25°	3188.9	3180.8	3100.1	2949.0	2760.5	2625.4	2546.9	2528.6	2556.9	2586.1	2596.2
27.5°	3567.8	3538.6	3442.8	3260.4	3016.5	2818.9	2698.0	2668.8	2696.1	2729.3	2739.3
30°	3942.8	3912.5	3798.7	3599.0	3328.0	3078.0	2904.6	2857.2	2895.5	2942.9	2949.0
32.5°	4317.7	4317.7	4190.7	3957.8	3662.5	3387.4	3179.8	3123.3	3186.8	3244.3	3257.3
35°	4766.1	4768.2	4645.1	4365.0	4047.6	3756.3	3527.5	3486.1	3581.9	3622.2	3653.4
37.5°	5317.3	5328.4	5170.3	4831.7	4483.9	4177.6	3905.4	3849.0	3944.7	4054.6	4155.4
40°	5913.1	5927.1	5752.8	5335.6	4987.8	4667.4	4373.0	4271.4	4430.5	4640.1	4770.2
42.5°	6481.5	6554.0	6385.7	5956.4	5582.4	5251.0	4952.5	4804.4	5004.0	5320.4	5433.3
45°	7303.0	7355.3	7062.0	6673.0	6321.3	5950.4	5555.3	5399.1	5678.2	6077.4	6100.5
47.5°	7850.2	7810.9	7661.6	7419.8	7197.1	6850.4	6255.7	6084.4	6455.3	6924.9	6794.9
50°	8141.3	8153.6	8133.3	8147.4	8155.5	7937.9	7114.4	6879.6	7322.1	7889.5	7590.0
52.5°	8413.5	8332.9	8399.4	8730.0	9129.1	9048.4	8048.8	7803.8	8251.3	8959.8	8430.7
55°	8407.4	8284.4	8501.2	9084.7	9950.5	10043.2	9097.9	8815.6	9233.9	10107.6	9321.6
57.5°	8110.2	8116.2	8449.7	9213.7	10522.9	10978.5	10315.3	9892.0	10276.0	11270.8	10134.9
60°	7701.0	7756.4	8237.2	9192.5	10981.5	11745.5	11808.9	11052.0	11296.9	12328.0	10808.1
62.5°	7040.8	7099.2	7762.4	8972.9	10912.0	12484.3	13159.5	12368.4	12364.4	12969.0	11005.8
65°	5999.7	5982.6	6679.0	8151.5	10328.4	13030.5	14501.0	13506.1	13168.6	12979.2	10608.7
67.5°	4424.4	4347.8	4945.4	6208.4	8584.8	12418.7	15290.1	14098.8	13442.6	12125.4	9395.2
70°	2295.9	2219.4	2703.1	3625.2	5645.9	9692.5	14416.3	13792.4	12837.0	10164.1	7360.4
72.5°	981.7	968.6	1165.1	1590.4	2731.2	5590.5	11304.0	11937.9	11014.7	7573.0	5060.4
75°	660.2	656.1	729.8	866.8	1228.6	2268.7	7074.2	8474.0	8058.8	4695.6	2846.2
77.5°	518.1	513.0	556.3	622.9	796.2	895.0	3139.4	4549.5	4210.7	2044.0	1245.7
80°	405.1	401.2	428.3	464.7	572.5	564.3	1033.1	1810.2	1400.8	783.1	605.6
82.5°	319.4	319.4	341.6	342.7	406.2	385.1	539.3	797.2	699.4	456.6	370.9
85°	292.3	292.3	315.5	255.9	265.1	242.9	334.6	472.7	443.5	187.4	161.2
87.5°	147.1	143.1	265.1	226.7	144.1	128.9	163.3	228.8	246.0	103.8	80.6
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°	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0
2.5°	2561.0	2559.9	2562.0	2563.0	2570.9	2582.1	2587.2	2594.2	2598.3	2596.2
5°	2530.7	2532.7	2540.8	2546.9	2561.0	2579.2	2589.2	2597.2	2604.2	2601.2
7.5°	2505.6	2510.6	2522.6	2527.7	2535.7	2540.8	2539.8	2542.8	2548.9	2541.8
10°	2491.4	2497.5	2506.5	2499.4	2480.3	2453.1	2427.8	2414.9	2418.9	2413.7
12.5°	2477.3	2485.4	2478.3	2445.0	2391.6	2356.3	2337.2	2339.2	2348.3	2350.3
15°	2469.3	2472.2	2442.0	2379.5	2325.2	2320.1	2330.2	2328.1	2329.1	2329.1
17.5°	2469.3	2461.1	2404.8	2342.2	2319.1	2310.0	2278.7	2239.5	2222.2	2216.3
20°	2482.3	2461.1	2392.6	2351.4	2300.9	2223.3	2140.8	2068.1	2035.9	2026.8
22.5°	2521.6	2485.4	2427.0	2355.4	2212.3	2082.2	1951.2	1864.5	1806.0	1796.0
25°	2601.2	2561.0	2494.5	2301.9	2071.1	1885.7	1736.6	1639.8	1581.3	1573.2
27.5°	2740.4	2714.1	2530.7	2184.0	1883.7	1685.1	1547.1	1472.5	1429.2	1426.1
30°	2949.9	2936.9	2512.6	2009.7	1652.9	1490.6	1424.2	1380.8	1348.4	1347.5
32.5°	3284.7	3178.7	2453.1	1797.0	1442.1	1352.6	1325.3	1299.0	1273.9	1273.9
35°	3714.9	3374.3	2340.3	1569.2	1314.2	1276.0	1241.6	1200.3	1167.1	1165.1
37.5°	4220.9	3495.2	2137.6	1385.7	1253.8	1224.5	1174.2	1112.7	1054.3	1044.1
40°	4731.8	3531.4	1852.5	1272.9	1215.4	1173.1	1111.7	1039.1	982.7	979.6
42.5°	5200.5	3462.0	1550.0	1195.4	1177.1	1120.7	1056.2	991.6	947.4	946.4
45°	5593.6	3281.6	1296.2	1121.8	1136.8	1073.4	1016.0	963.5	929.2	922.2
47.5°	5963.5	3026.6	1117.8	1044.1	1096.6	1047.2	998.7	949.4	916.1	911.2
50°	6392.8	2751.4	992.7	968.6	1061.3	1038.1	1012.8	961.5	906.1	900.0
52.5°	6912.8	2513.5	895.0	902.0	1034.0	1050.2	1049.2	995.7	899.1	890.9
55°	7493.4	2249.5	821.4	847.6	1023.0	1072.3	1058.3	1028.0	905.0	892.9
57.5°	8064.9	1941.1	769.9	806.3	1006.8	1070.3	1014.9	971.5	919.1	902.0
60°	8493.1	1526.8	730.7	769.9	971.5	1037.1	967.6	910.2	916.1	903.1
62.5°	8521.4	1180.3	683.3	738.8	918.2	1003.9	936.4	882.9	929.2	917.1
65°	8020.4	891.9	637.9	701.4	860.7	982.7	906.1	867.8	956.4	943.3
67.5°	6752.6	717.6	599.7	663.2	803.3	938.3	878.8	853.7	980.6	957.5
70°	4875.0	611.7	562.3	616.7	751.8	888.0	854.6	828.4	915.2	878.8
72.5°	3001.3	530.1	520.1	555.3	712.5	835.6	818.4	781.0	824.5	795.2
75°	1498.7	459.7	472.7	494.8	657.1	776.0	757.9	720.6	726.6	720.6
77.5°	717.6	393.1	417.3	434.4	585.5	708.6	689.4	651.1	644.1	645.1
80°	454.5	328.6	351.7	363.9	523.1	629.9	610.8	572.5	653.1	605.6
82.5°	284.3	267.1	273.2	295.4	455.5	548.2	523.1	488.8	588.6	465.6
85°	157.3	186.5	194.6	213.6	350.7	458.6	433.4	390.0	349.7	343.7
87.5°	93.8	110.9	113.8	128.0	235.9	331.6	293.2	278.1	230.9	229.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)