

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: P269347

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269347
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-05-LED-E1-T3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20886.9 lumens
Efficiency: N/A
Efficacy: 99.5 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 - G3

Input Watts (W): 210
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

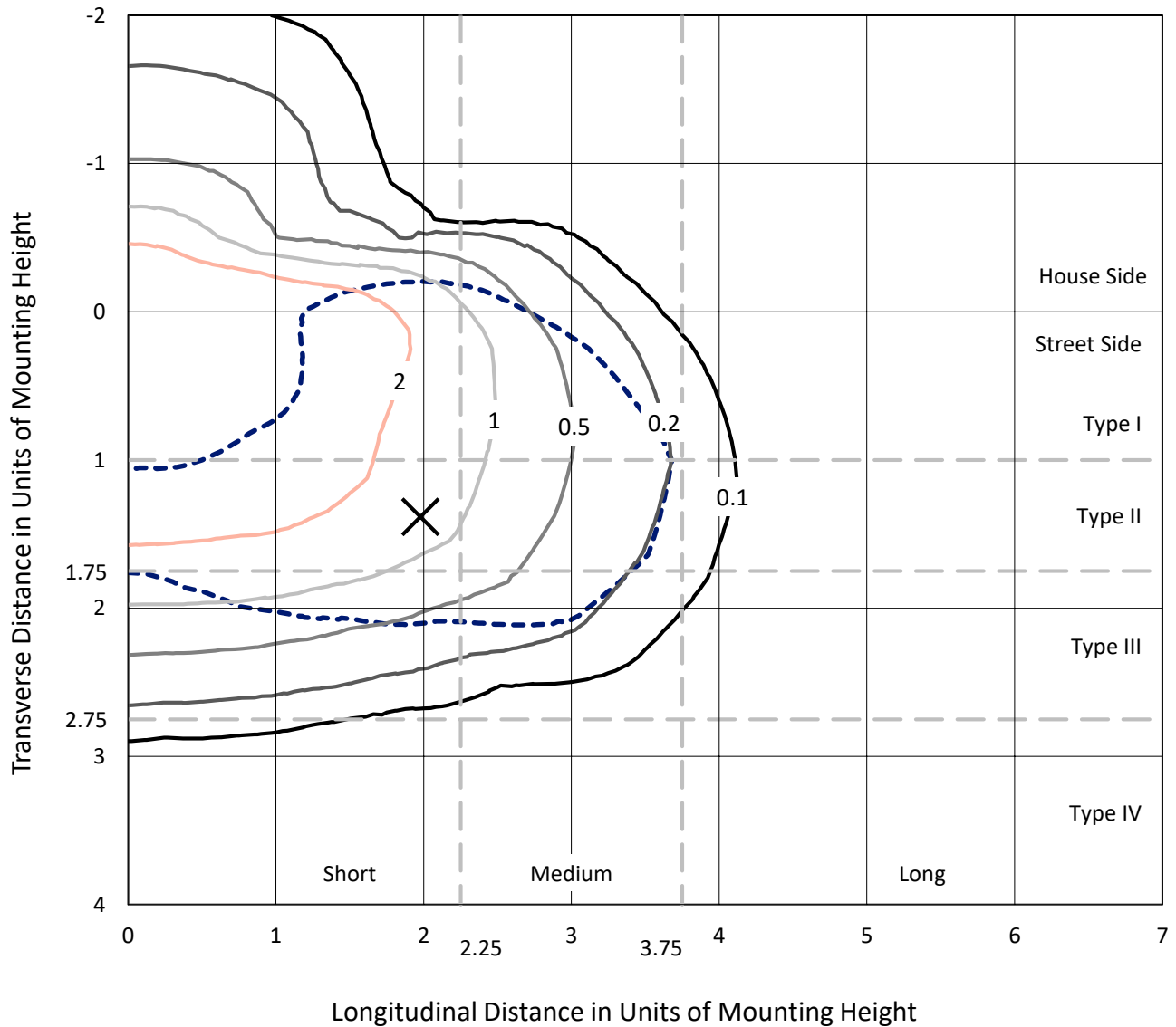


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Iso-Footcandle Lines of Horizontal Illumination

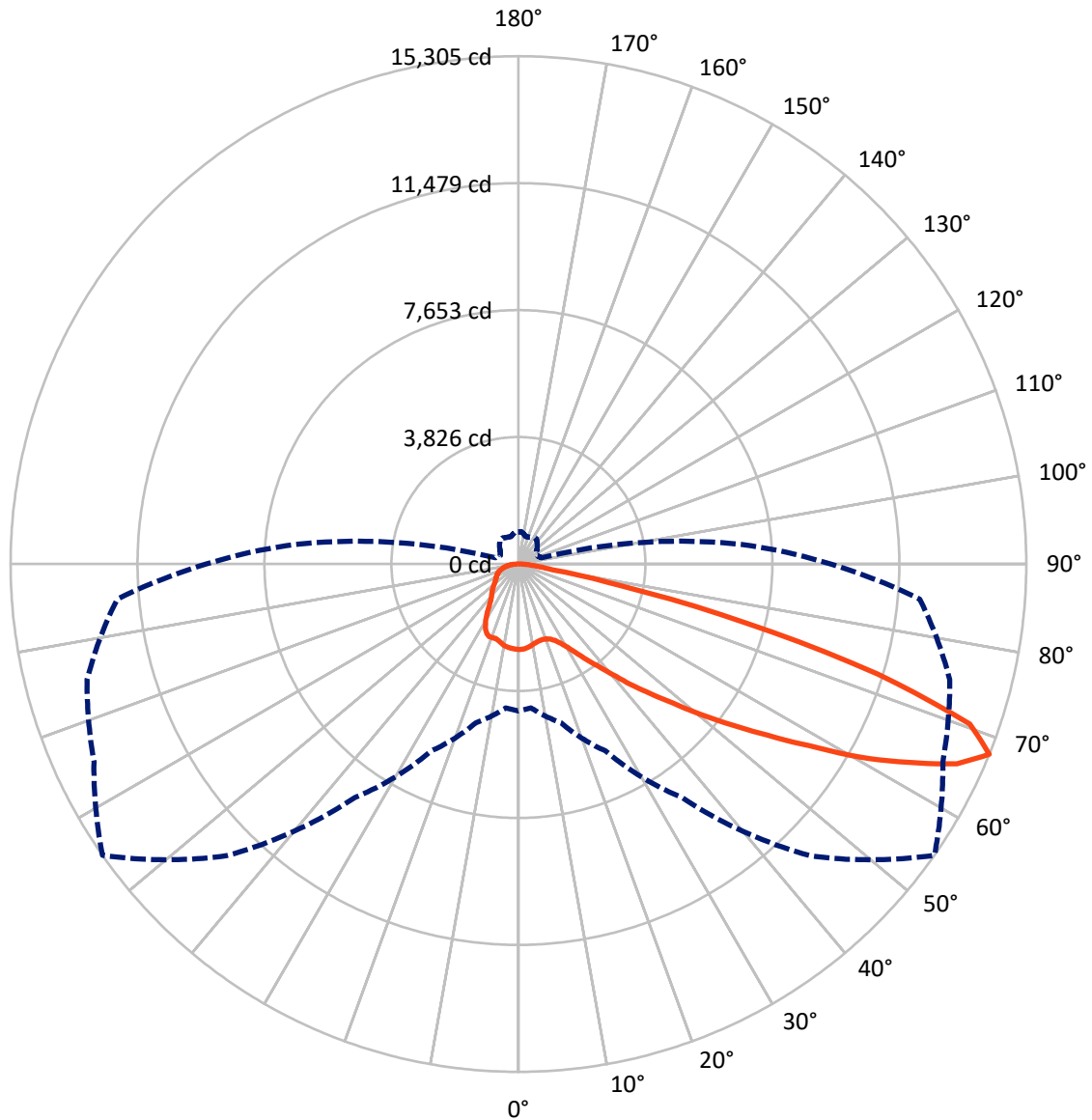
× Max cd
 - - - 1/2 Max cd



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	4512.0	0.0	4512.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16374.9	0.0	16374.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	20886.9	0.0	20886.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.2
10°-20°	680.9	3.3
20°-30°	1140.5	5.5
30°-40°	1875.5	9.0
40°-50°	3157.1	15.1
50°-60°	4969.0	23.8
60°-70°	5930.0	28.4
70°-80°	2546.4	12.2
80°-90°	347.2	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°	20886.9	100.0
0°-180°	20886.9	100.0



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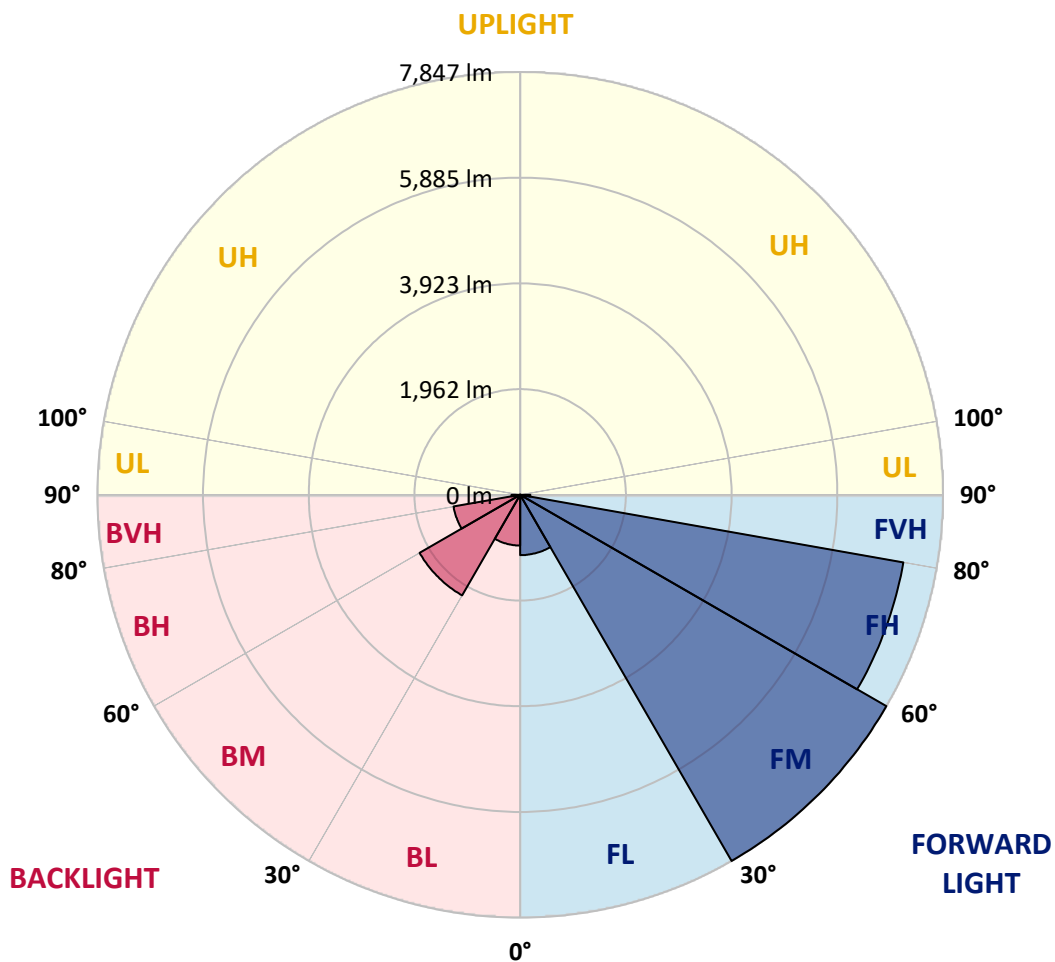
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.6	5.4			
FM (30°-60°)	7846.7	37.6			
FH (60°-80°)	7220.7	34.6			G3/7500
FVH (80°-90°)	187.9	0.9			G2/225
BL (0°-30°)	942.2	4.5	B2/1000		
BM (30°-60°)	2154.9	10.3	B2/2500		
BH (60°-80°)	1255.7	6.0	B3/2500		G3/2500
BVH (80°-90°)	159.3	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°	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6
2.5°	2553.4	2554.4	2556.4	2564.5	2571.6	2569.5	2570.5	2566.5	2565.5	2559.5	2565.5
5°	2521.2	2524.1	2525.1	2538.3	2546.3	2548.3	2545.3	2540.2	2534.2	2528.2	2531.2
7.5°	2447.4	2455.5	2456.5	2474.7	2487.9	2505.0	2506.0	2507.0	2503.9	2500.0	2506.0
10°	2401.1	2403.1	2402.1	2415.2	2425.2	2444.5	2455.5	2474.7	2482.7	2484.8	2488.8
12.5°	2398.0	2396.0	2392.9	2392.9	2389.9	2398.0	2418.1	2445.5	2464.6	2470.7	2475.6
15°	2430.4	2429.2	2419.2	2404.0	2384.9	2378.8	2396.0	2426.3	2451.6	2464.6	2469.7
17.5°	2502.9	2496.8	2480.8	2446.4	2405.1	2389.0	2391.0	2416.3	2445.5	2462.7	2467.6
20°	2636.2	2636.2	2601.9	2537.3	2463.6	2425.2	2407.1	2422.2	2450.4	2473.8	2480.8
22.5°	2866.1	2868.2	2810.6	2704.6	2580.7	2498.9	2453.5	2450.4	2483.8	2510.0	2518.0
25°	3191.9	3184.0	3103.3	2951.9	2763.2	2628.0	2549.4	2531.2	2559.5	2588.6	2598.7
27.5°	3571.3	3542.0	3446.2	3263.6	3019.5	2821.8	2700.7	2671.4	2698.7	2731.9	2742.0
30°	3946.7	3916.3	3802.3	3602.7	3331.3	3080.9	2907.5	2860.1	2898.4	2945.8	2951.9
32.5°	4321.8	4321.8	4194.7	3961.7	3666.2	3390.7	3183.0	3126.5	3190.1	3247.5	3260.6
35°	4770.8	4772.9	4649.7	4369.4	4051.5	3759.9	3531.0	3489.6	3585.4	3625.7	3657.1
37.5°	5322.6	5333.7	5175.3	4836.5	4488.3	4181.7	3909.2	3852.8	3948.6	4058.6	4159.5
40°	5918.9	5933.0	5758.4	5340.9	4992.8	4671.9	4377.4	4275.6	4434.9	4644.7	4774.9
42.5°	6487.9	6560.5	6392.1	5962.3	5587.9	5256.2	4957.4	4809.2	5008.9	5325.7	5438.7
45°	7310.0	7362.6	7069.0	6679.5	6327.5	5956.2	5560.8	5404.5	5683.8	6083.3	6106.6
47.5°	7858.0	7818.6	7669.3	7427.1	7204.1	6857.1	6261.9	6090.4	6461.7	6931.9	6801.6
50°	8149.5	8161.6	8141.3	8155.5	8163.5	7945.7	7121.5	6886.3	7329.4	7897.3	7597.7
52.5°	8421.8	8341.1	8407.7	8738.6	9138.1	9057.4	8056.7	7811.5	8259.5	8968.7	8438.9
55°	8415.9	8292.8	8509.6	9093.7	9960.3	10053.1	9106.8	8824.4	9243.0	10117.7	9330.9
57.5°	8118.3	8124.2	8458.3	9222.9	10533.3	10989.3	10325.6	9901.8	10286.2	11282.0	10145.0
60°	7708.5	7764.1	8245.4	9201.7	10992.4	11757.0	11820.6	11062.9	11308.1	12340.1	10818.8
62.5°	7047.8	7106.3	7770.1	8981.8	10922.9	12496.6	13172.4	12380.6	12376.5	12981.9	11016.6
65°	6005.7	5988.6	6685.6	8159.6	10338.7	13043.4	14515.3	13519.5	13181.5	12991.8	10619.1
67.5°	4428.9	4352.2	4950.4	6214.5	8593.4	12430.9	15305.2	14112.7	13456.0	12137.4	9404.4
70°	2298.1	2221.5	2705.8	3628.9	5651.5	9702.1	14430.6	13806.1	12849.6	10174.3	7367.5
72.5°	982.7	969.5	1166.2	1591.9	2734.0	5596.1	11315.2	11949.8	11025.6	7580.4	5065.5
75°	660.9	656.8	730.4	867.7	1229.8	2270.9	7081.1	8482.3	8066.7	4700.2	2849.0
77.5°	518.5	513.6	556.9	623.5	796.9	895.9	3142.5	4554.0	4214.9	2045.9	1246.9
80°	405.6	401.5	428.8	465.1	572.9	564.9	1034.0	1811.9	1402.3	784.0	606.4
82.5°	319.7	319.7	342.1	343.1	406.6	385.5	539.7	798.1	700.0	457.0	371.3
85°	292.6	292.6	315.8	256.2	265.3	243.1	335.0	473.1	443.9	187.7	161.4
87.5°	147.3	143.3	265.3	227.0	144.3	129.1	163.4	229.0	246.1	103.9	80.7
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°	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6	2575.6
2.5°	2563.5	2562.4	2564.5	2565.5	2573.6	2584.7	2589.8	2596.8	2600.9	2598.7
5°	2533.2	2535.2	2543.3	2549.4	2563.5	2581.5	2591.7	2599.8	2606.8	2603.8
7.5°	2508.0	2513.1	2525.1	2530.2	2538.3	2543.3	2542.4	2545.3	2551.4	2544.3
10°	2493.9	2500.0	2509.0	2501.9	2482.7	2455.5	2430.4	2417.2	2421.2	2416.3
12.5°	2479.7	2487.9	2480.8	2447.4	2394.1	2358.7	2339.5	2341.5	2350.7	2352.7
15°	2471.6	2474.7	2444.5	2381.9	2327.4	2322.4	2332.4	2330.5	2331.5	2331.5
17.5°	2471.6	2463.6	2407.1	2344.5	2321.4	2312.2	2280.9	2241.7	2224.6	2218.5
20°	2484.8	2463.6	2395.1	2353.6	2303.3	2225.6	2142.7	2070.1	2037.8	2028.8
22.5°	2524.1	2487.9	2429.2	2357.7	2214.4	2084.2	1953.2	1866.4	1807.8	1797.8
25°	2603.8	2563.5	2496.8	2304.2	2073.2	1887.6	1738.2	1641.5	1582.9	1574.8
27.5°	2743.1	2716.8	2533.2	2186.1	1885.5	1686.7	1548.6	1473.8	1430.6	1427.5
30°	2952.9	2939.8	2515.1	2011.7	1654.5	1492.1	1425.5	1382.1	1349.9	1348.8
32.5°	3287.8	3181.8	2455.5	1798.8	1443.7	1353.8	1326.6	1300.3	1275.1	1275.1
35°	3718.7	3377.5	2342.5	1570.7	1315.6	1277.2	1242.8	1201.6	1168.2	1166.2
37.5°	4225.1	3498.7	2139.8	1387.2	1255.0	1225.7	1175.3	1113.8	1055.2	1045.2
40°	4736.6	3535.0	1854.2	1274.2	1216.7	1174.4	1112.8	1040.1	983.6	980.6
42.5°	5205.7	3465.4	1551.6	1196.5	1178.3	1121.9	1057.2	992.6	948.3	947.4
45°	5599.0	3284.8	1297.4	1122.8	1138.0	1074.5	1016.9	964.5	930.1	923.1
47.5°	5969.3	3029.5	1118.7	1045.2	1097.5	1048.2	999.8	950.3	917.0	912.0
50°	6399.0	2754.2	993.7	969.5	1062.3	1039.1	1013.8	962.4	907.0	900.9
52.5°	6919.6	2516.1	895.9	902.9	1035.0	1051.2	1050.2	996.7	899.9	891.7
55°	7500.8	2251.7	822.2	848.4	1024.0	1073.5	1059.3	1029.0	905.9	893.9
57.5°	8072.8	1943.0	770.7	807.0	1007.9	1071.4	1016.0	972.5	920.0	902.9
60°	8501.6	1528.3	731.4	770.7	972.5	1038.1	968.6	911.1	917.0	904.0
62.5°	8529.8	1181.4	684.0	739.5	919.1	1004.8	937.2	883.8	930.1	918.1
65°	8028.4	892.8	638.5	702.1	861.6	983.6	907.0	868.7	957.5	944.3
67.5°	6759.2	718.4	600.2	663.8	804.1	939.3	879.7	854.5	981.6	958.4
70°	4879.9	612.4	563.0	617.5	752.6	888.9	855.5	829.2	916.0	879.7
72.5°	3004.3	530.7	520.6	556.0	713.3	836.3	819.2	781.9	825.3	796.0
75°	1500.2	460.0	473.1	495.3	657.7	776.9	758.7	721.2	727.4	721.2
77.5°	718.4	393.5	417.6	434.8	586.1	709.2	690.1	651.7	644.7	645.6
80°	455.0	328.9	352.0	364.3	523.6	630.5	611.3	572.9	653.7	606.4
82.5°	284.6	267.3	273.4	295.6	456.0	548.9	523.6	489.2	589.2	466.1
85°	157.4	186.7	194.8	213.8	351.1	459.0	433.8	390.5	350.1	344.1
87.5°	93.9	111.0	114.1	128.1	236.1	332.0	293.6	278.5	231.0	230.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)