

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: P194002

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194002
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-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21498 lumens
Efficiency: N/A
Efficacy: 83.3 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

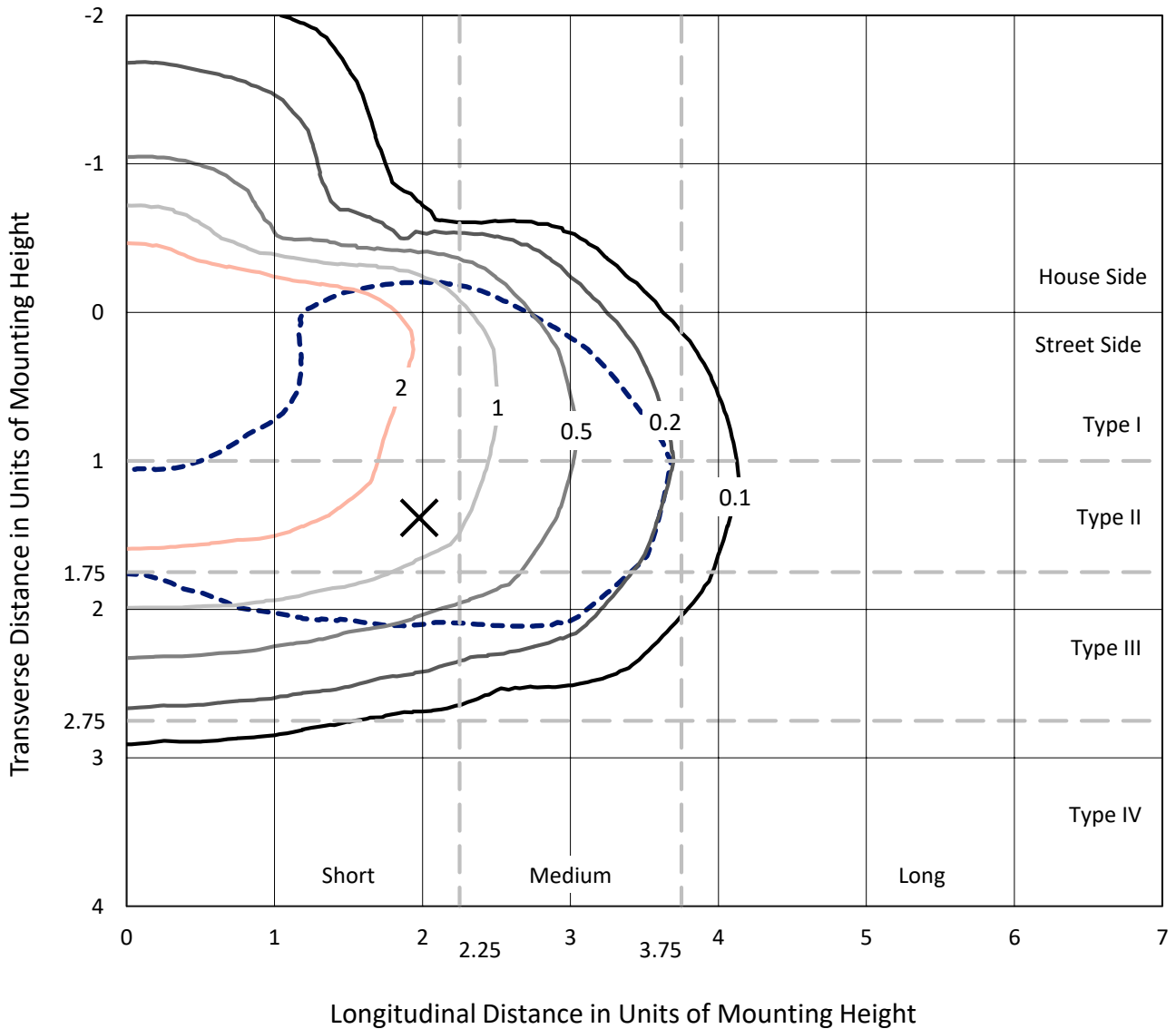
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P194002
 CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

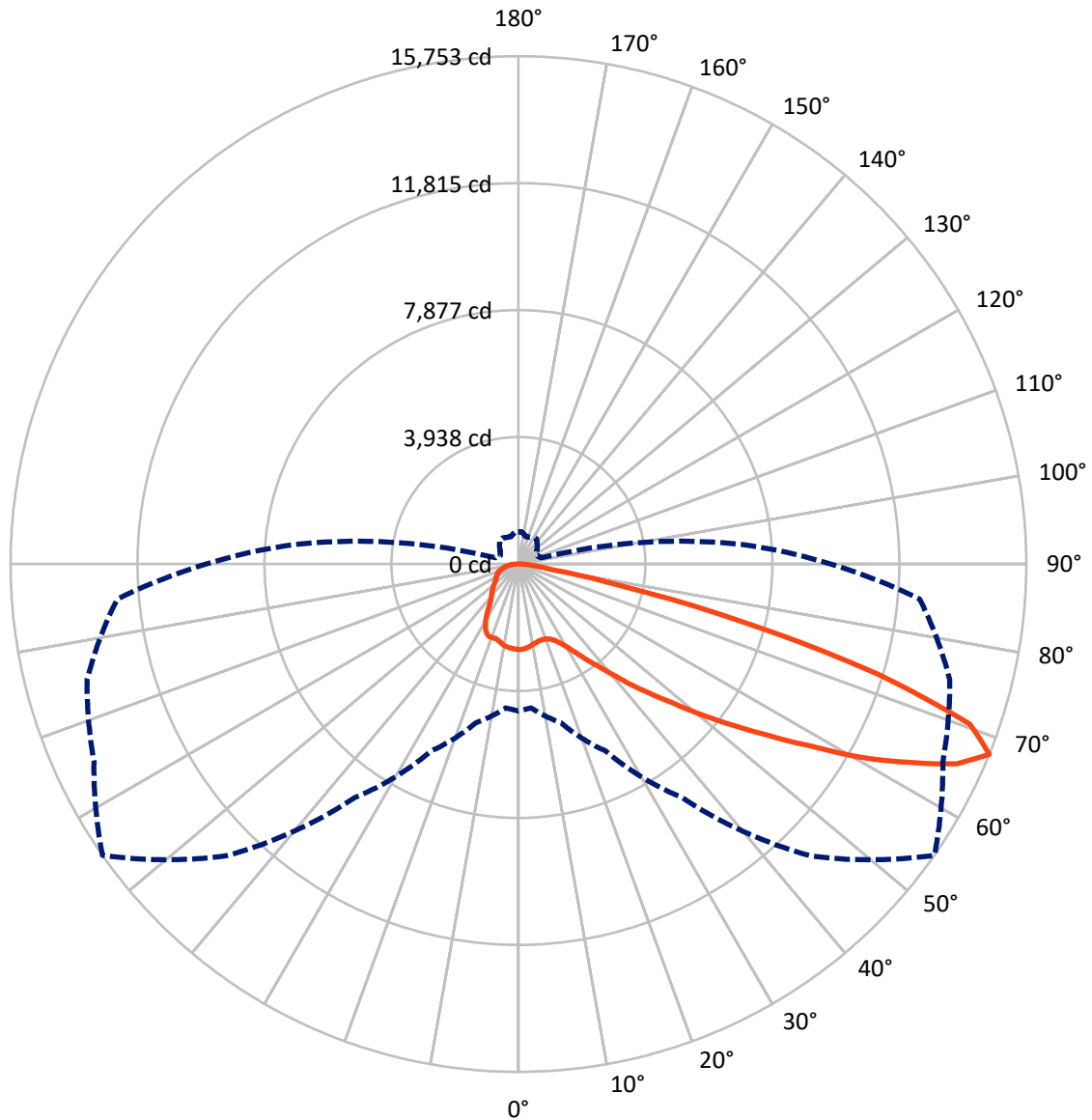
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194002
CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194002

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4644.0	0.0	4644.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16854.0	0.0	16854.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	21498.0	0.0	21498.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.2
10°-20°	700.8	3.3
20°-30°	1173.9	5.5
30°-40°	1930.4	9.0
40°-50°	3249.4	15.1
50°-60°	5114.4	23.8
60°-70°	6103.4	28.4
70°-80°	2620.9	12.2
80°-90°	357.3	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°	21498.0	100.0
0°-180°	21498.0	100.0



REPORT NUMBER: P194002

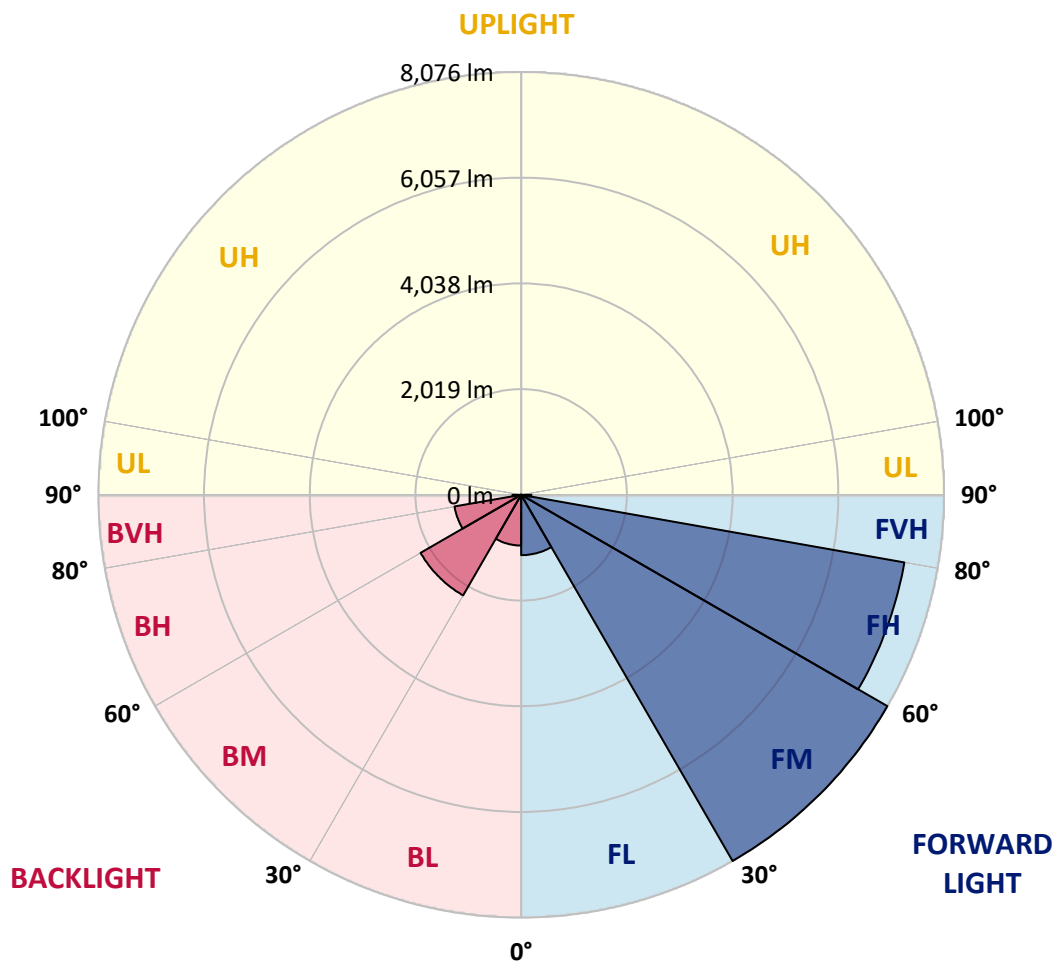
CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.3	5.4			
FM (30°-60°)	8076.2	37.6			
FH (60°-80°)	7432.0	34.6			G3/7500
FVH (80°-90°)	193.4	0.9			G2/225
BL (0°-30°)	969.8	4.5	B2/1000		
BM (30°-60°)	2217.9	10.3	B2/2500		
BH (60°-80°)	1292.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	163.9	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-G3

Type III Short





REPORT NUMBER: P194002

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9
2.5°	2628.1	2629.1	2631.2	2639.5	2646.8	2644.7	2645.7	2641.6	2640.6	2634.3	2640.6
5°	2594.9	2598.0	2599.0	2612.5	2620.8	2622.9	2619.8	2614.6	2608.4	2602.1	2605.3
7.5°	2519.1	2527.4	2528.4	2547.1	2560.6	2578.3	2579.3	2580.3	2577.2	2573.1	2579.3
10°	2471.3	2473.4	2472.3	2485.8	2496.2	2516.0	2527.4	2547.1	2555.4	2557.5	2561.6
12.5°	2468.2	2466.1	2463.0	2463.0	2459.9	2468.2	2489.0	2517.0	2536.7	2542.9	2548.1
15°	2501.4	2500.4	2490.0	2474.4	2454.7	2448.5	2466.1	2497.3	2523.2	2536.7	2541.9
17.5°	2576.2	2569.9	2553.3	2518.0	2475.5	2458.8	2460.9	2486.9	2517.0	2534.6	2539.8
20°	2713.2	2713.2	2677.9	2611.5	2535.7	2496.2	2477.5	2493.1	2522.2	2546.1	2553.3
22.5°	2950.0	2952.1	2892.9	2783.8	2656.1	2572.0	2525.3	2522.2	2556.4	2583.4	2591.8
25°	3285.4	3277.1	3194.0	3038.2	2844.1	2704.9	2623.9	2605.3	2634.3	2664.4	2674.8
27.5°	3675.8	3645.7	3547.0	3359.1	3107.8	2904.3	2779.7	2749.6	2777.6	2811.9	2822.3
30°	4062.1	4030.9	3913.6	3708.0	3428.7	3171.2	2992.6	2943.8	2983.2	3032.0	3038.2
32.5°	4448.3	4448.3	4317.5	4077.6	3773.4	3489.9	3276.0	3217.9	3283.3	3342.5	3356.0
35°	4910.4	4912.5	4785.8	4497.1	4170.1	3870.0	3634.3	3591.7	3690.3	3731.9	3764.1
37.5°	5478.4	5489.8	5326.8	4977.9	4619.7	4304.0	4023.7	3965.5	4064.1	4177.3	4281.2
40°	6092.1	6106.6	5927.0	5497.1	5138.9	4808.7	4505.5	4400.6	4564.6	4780.6	4914.6
42.5°	6677.7	6752.5	6579.1	6136.7	5751.5	5409.9	5102.5	4949.9	5155.5	5481.5	5597.8
45°	7524.0	7578.0	7275.8	6875.0	6512.6	6130.5	5723.5	5562.5	5850.1	6261.3	6285.2
47.5°	8087.8	8047.3	7893.6	7644.4	7414.9	7057.7	6445.1	6268.6	6650.7	7134.6	7000.6
50°	8387.9	8400.3	8379.6	8394.1	8402.4	8178.1	7329.8	7087.9	7543.7	8128.3	7819.9
52.5°	8668.2	8585.2	8653.7	8994.3	9405.5	9322.4	8292.4	8040.0	8501.1	9231.0	8685.9
55°	8662.0	8535.3	8758.6	9359.8	10251.7	10347.3	9373.3	9082.6	9513.5	10413.7	9603.8
57.5°	8355.7	8361.9	8705.6	9492.7	10841.5	11310.9	10627.6	10191.5	10587.1	11612.0	10441.8
60°	7934.1	7991.2	8486.5	9470.9	11314.0	12101.1	12166.5	11386.7	11639.0	12701.2	11135.4
62.5°	7254.0	7314.2	7997.5	9244.5	11242.3	12862.2	13557.9	12742.8	12738.6	13361.6	11338.9
65°	6181.4	6163.7	6881.2	8398.3	10641.1	13425.0	14940.0	13915.1	13567.2	13372.0	10929.8
67.5°	4558.4	4479.5	5095.2	6396.3	8844.8	12794.7	15753.0	14525.6	13849.7	12492.5	9679.6
70°	2365.4	2286.5	2784.9	3735.0	5816.9	9985.9	14852.7	14210.0	13225.6	10471.9	7583.2
72.5°	1011.4	997.9	1200.3	1638.5	2814.0	5759.8	11646.3	12299.4	11348.3	7802.3	5213.6
75°	680.1	676.0	751.8	893.0	1265.8	2337.4	7288.3	8730.5	8302.7	4837.7	2932.3
77.5°	533.7	528.5	573.2	641.7	820.3	922.1	3234.5	4687.2	4338.3	2105.8	1283.4
80°	417.4	413.3	441.3	478.7	589.8	581.5	1064.3	1864.9	1443.3	806.8	624.1
82.5°	329.2	329.2	352.0	353.0	418.5	396.7	555.5	821.3	720.6	470.4	382.1
85°	301.1	301.1	325.0	263.7	273.1	250.2	344.7	487.0	456.9	193.1	166.1
87.5°	151.6	147.4	273.1	233.6	148.5	132.9	168.2	235.7	253.4	107.0	83.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194002

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9	2650.9
2.5°	2638.5	2637.4	2639.5	2640.6	2648.9	2660.3	2665.5	2672.7	2676.9	2674.8
5°	2607.3	2609.4	2617.7	2623.9	2638.5	2657.2	2667.6	2675.9	2683.1	2680.0
7.5°	2581.4	2586.6	2599.0	2604.2	2612.5	2617.7	2616.7	2619.8	2626.0	2618.7
10°	2566.8	2573.1	2582.4	2575.1	2555.4	2527.4	2501.4	2487.9	2492.1	2486.9
12.5°	2552.3	2560.6	2553.3	2519.1	2464.0	2427.7	2408.0	2410.0	2419.4	2421.5
15°	2544.0	2547.1	2516.0	2451.6	2395.5	2390.3	2400.7	2398.6	2399.7	2399.7
17.5°	2544.0	2535.7	2477.5	2413.2	2389.3	2379.9	2347.7	2307.2	2289.6	2283.4
20°	2557.5	2535.7	2465.1	2422.5	2370.6	2290.6	2205.5	2130.7	2097.5	2088.1
22.5°	2598.0	2560.6	2500.4	2426.7	2279.2	2145.3	2010.3	1921.0	1860.7	1850.4
25°	2680.0	2638.5	2569.9	2371.6	2133.8	1942.8	1789.1	1689.4	1629.2	1620.9
27.5°	2823.3	2796.3	2607.3	2250.1	1940.7	1736.1	1593.9	1517.0	1472.4	1469.3
30°	3039.3	3025.8	2588.6	2070.5	1702.9	1535.7	1467.2	1422.6	1389.3	1388.3
32.5°	3384.0	3275.0	2527.4	1851.4	1485.9	1393.5	1365.4	1338.4	1312.5	1312.5
35°	3827.4	3476.4	2411.1	1616.7	1354.0	1314.6	1279.3	1236.7	1202.4	1200.3
37.5°	4348.7	3601.0	2202.4	1427.7	1291.7	1261.6	1209.7	1146.4	1086.1	1075.7
40°	4875.1	3638.4	1908.5	1311.5	1252.3	1208.7	1145.3	1070.6	1012.4	1009.3
42.5°	5357.9	3566.8	1597.0	1231.5	1212.8	1154.7	1088.2	1021.7	976.1	975.0
45°	5762.9	3380.9	1335.3	1155.7	1171.3	1105.9	1046.7	992.7	957.4	950.1
47.5°	6144.0	3118.2	1151.5	1075.7	1129.7	1078.9	1029.0	978.1	943.9	938.7
50°	6586.3	2834.7	1022.8	997.9	1093.4	1069.5	1043.6	990.6	933.5	927.3
52.5°	7122.1	2589.7	922.1	929.3	1065.4	1082.0	1080.9	1025.9	926.2	917.9
55°	7720.2	2317.6	846.3	873.3	1053.9	1104.8	1090.3	1059.1	932.4	920.0
57.5°	8309.0	1999.9	793.3	830.7	1037.3	1102.7	1045.6	1001.0	947.0	929.3
60°	8750.3	1573.1	752.8	793.3	1001.0	1068.5	996.8	937.6	943.9	930.4
62.5°	8779.4	1215.9	704.0	761.1	945.9	1034.2	964.6	909.6	957.4	944.9
65°	8263.3	919.0	657.3	722.7	886.8	1012.4	933.5	894.0	985.4	971.9
67.5°	6957.0	739.3	617.8	683.2	827.6	966.7	905.5	879.5	1010.3	986.4
70°	5022.6	630.3	579.4	635.5	774.6	914.8	880.5	853.5	942.8	905.5
72.5°	3092.2	546.2	535.8	572.1	734.1	860.8	843.1	804.7	849.4	819.3
75°	1544.0	473.5	487.0	509.8	677.0	799.5	780.8	742.4	748.7	742.4
77.5°	739.3	405.0	429.9	447.5	603.3	730.0	710.2	670.8	663.5	664.6
80°	468.3	338.5	362.4	374.8	538.9	649.0	629.2	589.8	672.9	624.1
82.5°	292.8	275.2	281.4	304.2	469.3	564.9	538.9	503.6	606.4	479.7
85°	162.0	192.1	200.4	220.1	361.3	472.5	446.5	401.8	360.3	354.1
87.5°	96.6	114.2	117.3	131.9	243.0	341.6	302.2	286.6	237.8	236.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)