

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: P193975

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193975
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-07-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22641 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

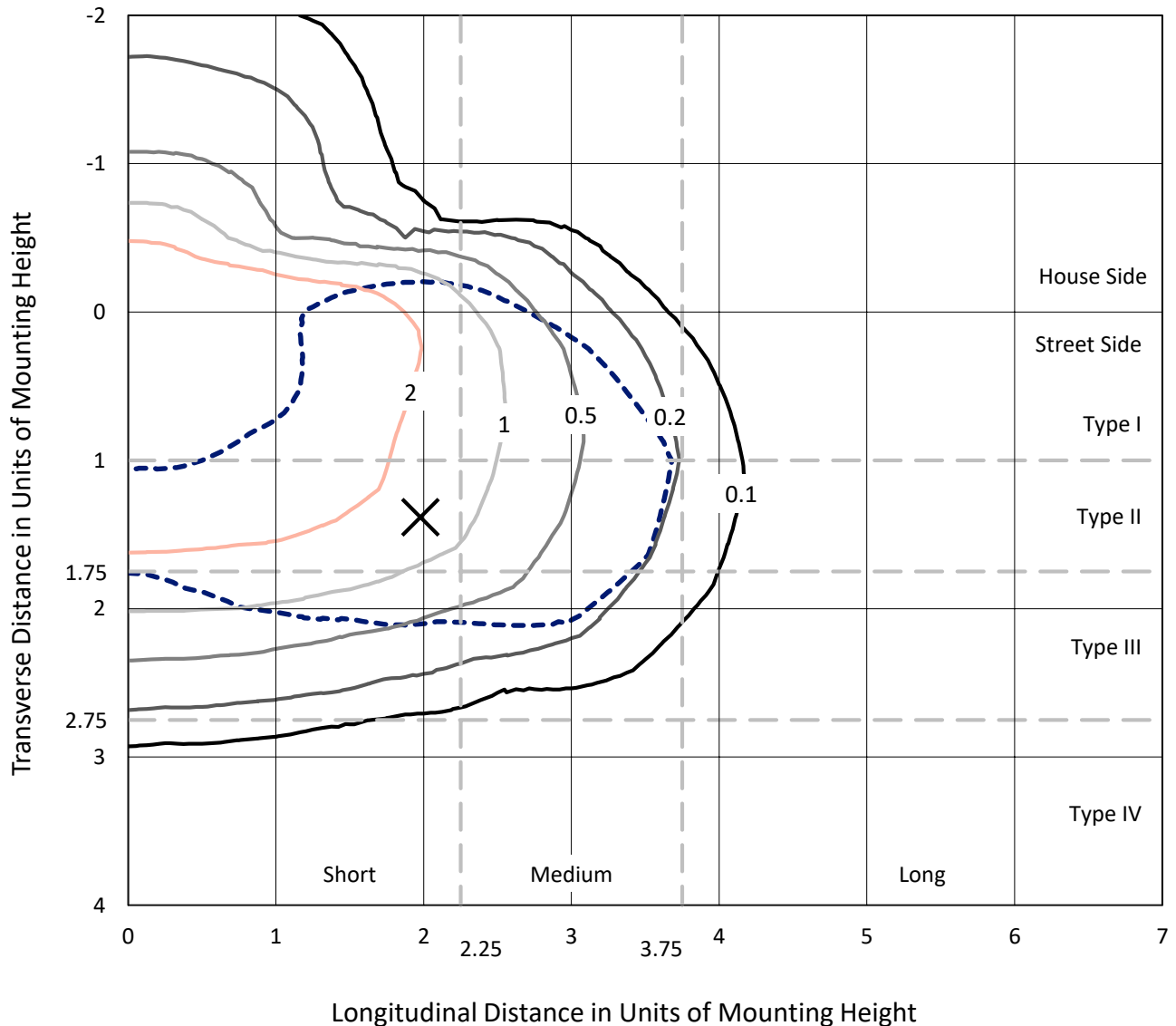
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193975
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-8030-600

Iso-Footcandle Lines of Horizontal Illumination

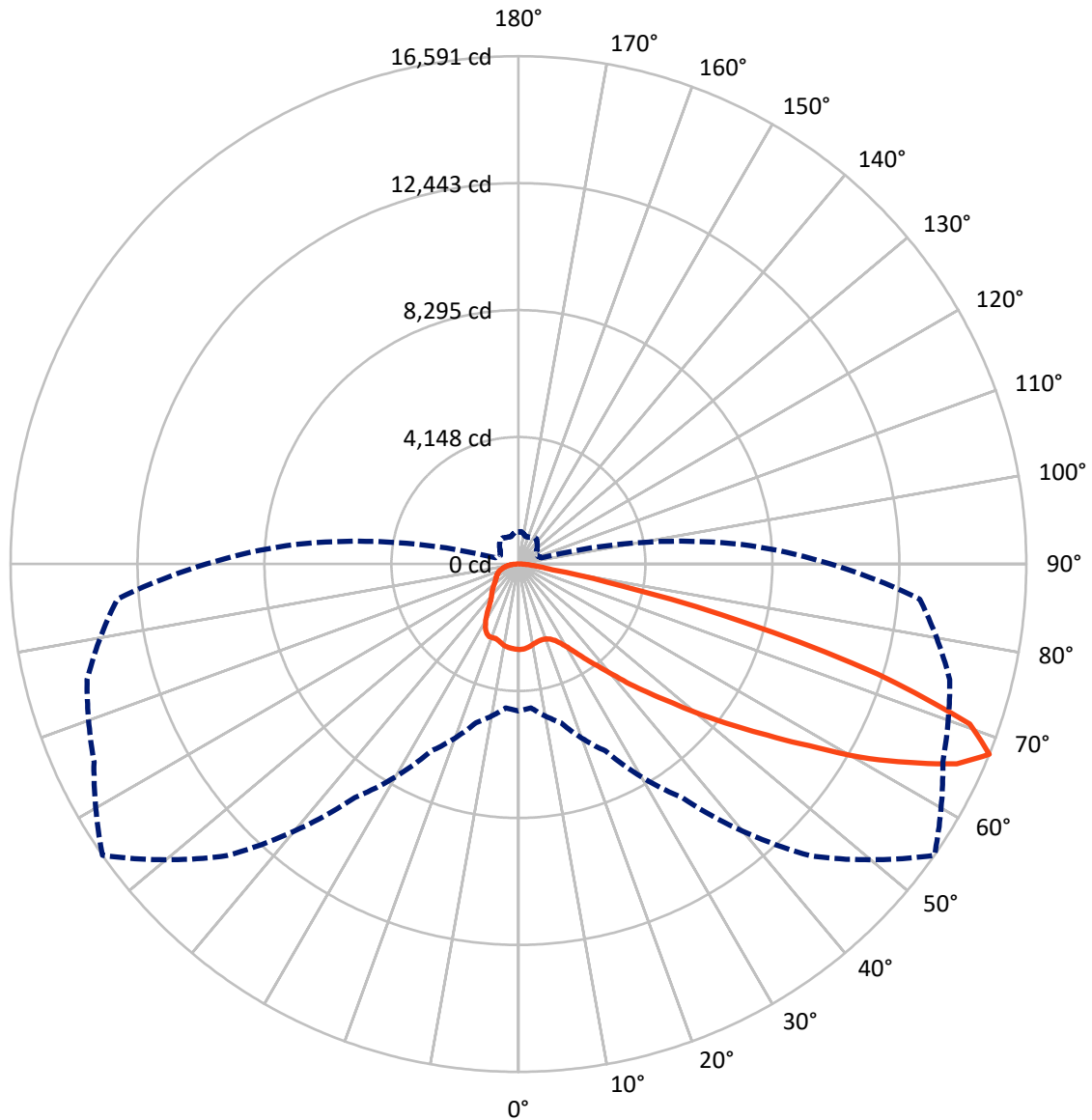
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193975
CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-8030-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4890.9	0.0	4890.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17750.1	0.0	17750.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	22641.0	0.0	22641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	1.2
10°-20°	738.0	3.3
20°-30°	1236.3	5.5
30°-40°	2033.0	9.0
40°-50°	3422.2	15.1
50°-60°	5386.3	23.8
60°-70°	6427.9	28.4
70°-80°	2760.3	12.2
80°-90°	376.3	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°	22641.0	100.0
0°-180°	22641.0	100.0



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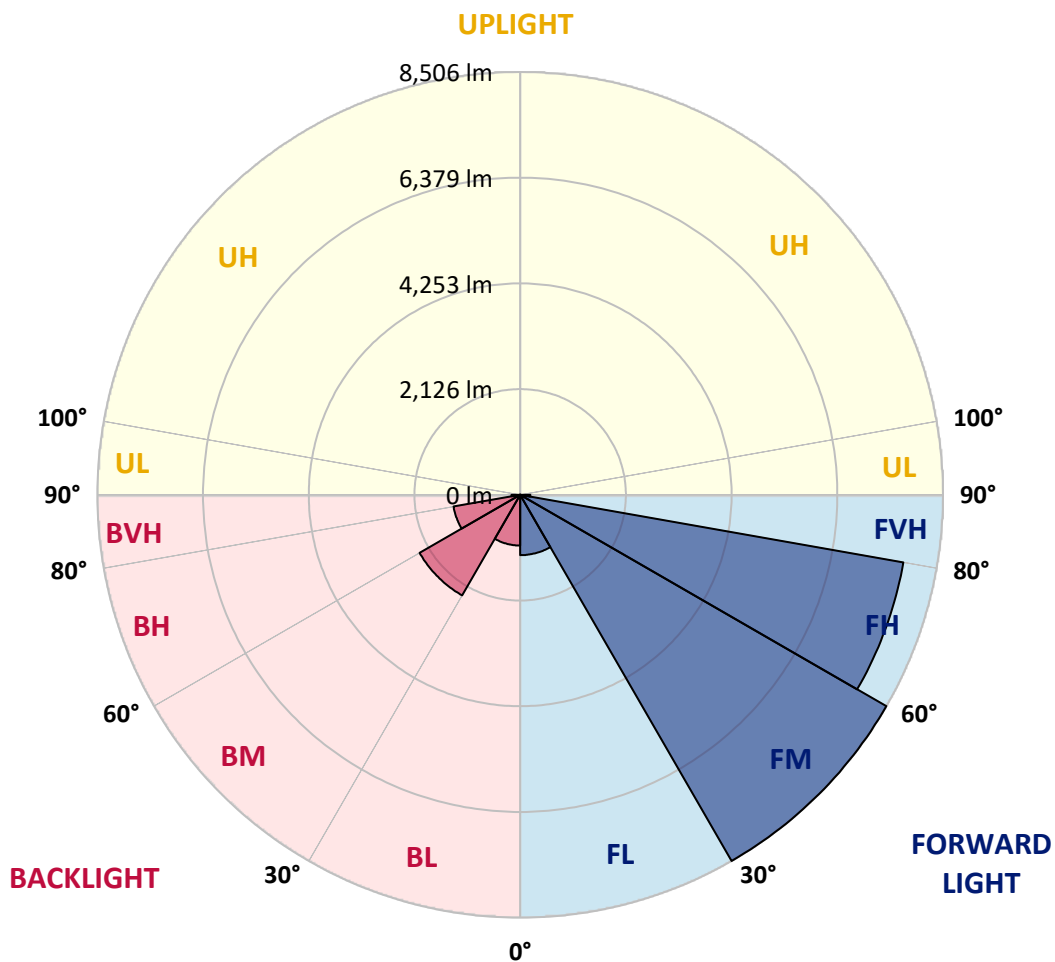
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1213.6	5.4			
FM	(30°-60°)	8505.6	37.6			
FH	(60°-80°)	7827.1	34.6			G4/12000
FVH	(80°-90°)	203.7	0.9			G2/225
BL	(0°-30°)	1021.3	4.5	B3/2500		
BM	(30°-60°)	2335.9	10.3	B2/2500		
BH	(60°-80°)	1361.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	172.6	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





REPORT NUMBER: P193975

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9
2.5°	2767.8	2768.9	2771.1	2779.9	2787.5	2785.3	2786.4	2782.0	2780.9	2774.4	2780.9
5°	2732.8	2736.1	2737.2	2751.4	2760.2	2762.4	2759.1	2753.6	2747.0	2740.5	2743.8
7.5°	2653.0	2661.7	2662.8	2682.5	2696.7	2715.3	2716.4	2717.5	2714.2	2709.9	2716.4
10°	2602.7	2604.9	2603.8	2618.0	2628.9	2649.7	2661.7	2682.5	2691.3	2693.5	2697.8
12.5°	2599.4	2597.2	2593.9	2593.9	2590.7	2599.4	2621.3	2650.8	2671.6	2678.2	2683.6
15°	2634.4	2633.3	2622.4	2606.0	2585.2	2578.6	2597.2	2630.0	2657.4	2671.6	2677.1
17.5°	2713.1	2706.6	2689.1	2651.9	2607.1	2589.6	2591.8	2619.1	2650.8	2669.4	2674.9
20°	2857.5	2857.5	2820.3	2750.3	2670.5	2628.9	2609.3	2625.7	2656.3	2681.4	2689.1
22.5°	3106.8	3109.0	3046.7	2931.9	2797.4	2708.8	2659.6	2656.3	2692.4	2720.8	2729.5
25°	3460.1	3451.3	3363.8	3199.8	2995.3	2848.7	2763.4	2743.8	2774.4	2806.1	2817.0
27.5°	3871.2	3839.5	3735.6	3537.7	3273.1	3058.7	2927.5	2895.8	2925.3	2961.4	2972.3
30°	4278.0	4245.2	4121.7	3905.1	3611.0	3339.8	3151.7	3100.3	3141.8	3193.2	3199.8
32.5°	4684.9	4684.9	4547.1	4294.4	3974.0	3675.5	3450.2	3389.0	3457.9	3520.2	3534.4
35°	5171.5	5173.7	5040.3	4736.2	4391.8	4075.7	3827.5	3782.7	3886.5	3930.3	3964.2
37.5°	5769.7	5781.7	5610.0	5242.6	4865.3	4532.8	4237.6	4176.3	4280.2	4399.4	4508.8
40°	6416.0	6431.3	6242.1	5789.4	5412.1	5064.3	4745.0	4634.5	4807.3	5034.8	5175.9
42.5°	7032.7	7111.5	6928.9	6463.0	6057.3	5697.5	5373.8	5213.0	5429.6	5773.0	5895.4
45°	7924.0	7980.9	7662.6	7240.5	6858.9	6456.4	6027.8	5858.3	6161.2	6594.2	6619.4
47.5°	8517.8	8475.2	8313.3	8050.9	7809.2	7433.0	6787.8	6601.9	7004.3	7513.9	7372.8
50°	8833.9	8847.0	8825.1	8840.4	8849.2	8613.0	7719.5	7464.7	7944.8	8560.5	8235.7
52.5°	9129.1	9041.6	9113.8	9472.5	9905.6	9818.1	8733.2	8467.5	8953.1	9721.8	9147.7
55°	9122.6	8989.1	9224.3	9857.4	10796.8	10897.4	9871.7	9565.5	10019.3	10967.4	10114.4
57.5°	8800.0	8806.5	9168.5	9997.4	11418.0	11912.3	11192.7	10733.4	11150.0	12229.4	10996.9
60°	8356.0	8416.1	8937.7	9974.4	11915.5	12744.5	12813.4	11992.1	12257.8	13376.5	11727.4
62.5°	7639.7	7703.1	8422.7	9736.0	11840.1	13546.0	14278.7	13420.3	13415.9	14072.1	11941.8
65°	6510.0	6491.4	7247.1	8844.8	11206.9	14138.8	15734.3	14654.9	14288.6	14083.0	11510.9
67.5°	4800.8	4717.7	5366.1	6736.4	9315.0	13475.0	16590.5	15297.9	14586.0	13156.7	10194.3
70°	2491.2	2408.0	2933.0	3933.6	6126.2	10516.9	15642.4	14965.5	13928.8	11028.6	7986.3
72.5°	1065.1	1050.9	1264.2	1725.7	2963.6	6066.0	12265.5	12953.3	11951.6	8217.1	5490.8
75°	716.3	711.9	791.7	940.5	1333.1	2461.6	7675.8	9194.7	8744.2	5094.9	3088.2
77.5°	562.1	556.6	603.7	675.8	863.9	971.1	3406.5	4936.4	4568.9	2217.8	1351.7
80°	439.6	435.2	464.8	504.1	621.1	612.4	1120.9	1964.1	1520.1	849.7	657.2
82.5°	346.7	346.7	370.7	371.8	440.7	417.7	585.1	865.0	758.9	495.4	402.4
85°	317.1	317.1	342.3	277.8	287.6	263.6	363.1	512.9	481.2	203.4	175.0
87.5°	159.7	155.3	287.6	246.1	156.4	140.0	177.2	248.2	266.8	112.6	87.5
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°	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9	2791.9
2.5°	2778.8	2777.7	2779.9	2780.9	2789.7	2801.7	2807.2	2814.8	2819.2	2817.0
5°	2746.0	2748.1	2756.9	2763.4	2778.8	2798.4	2809.4	2818.1	2825.8	2822.5
7.5°	2718.6	2724.1	2737.2	2742.7	2751.4	2756.9	2755.8	2759.1	2765.6	2758.0
10°	2703.3	2709.9	2719.7	2712.1	2691.3	2661.7	2634.4	2620.2	2624.6	2619.1
12.5°	2688.0	2696.7	2689.1	2653.0	2595.0	2556.8	2536.0	2538.2	2548.0	2550.2
15°	2679.2	2682.5	2649.7	2581.9	2522.9	2517.4	2528.3	2526.1	2527.2	2527.2
17.5°	2679.2	2670.5	2609.3	2541.5	2516.3	2506.5	2472.6	2429.9	2411.3	2404.8
20°	2693.5	2670.5	2596.1	2551.3	2496.6	2412.4	2322.7	2244.0	2209.0	2199.2
22.5°	2736.1	2696.7	2633.3	2555.7	2400.4	2259.3	2117.2	2023.1	1959.7	1948.7
25°	2822.5	2778.8	2706.6	2497.7	2247.3	2046.1	1884.2	1779.2	1715.8	1707.1
27.5°	2973.4	2945.0	2746.0	2369.8	2043.9	1828.4	1678.6	1597.7	1550.7	1547.4
30°	3200.9	3186.7	2726.3	2180.6	1793.5	1617.4	1545.2	1498.2	1463.2	1462.1
32.5°	3563.9	3449.1	2661.7	1949.8	1564.9	1467.6	1438.0	1409.6	1382.3	1382.3
35°	4030.9	3661.3	2539.3	1702.7	1426.0	1384.5	1347.3	1302.4	1266.4	1264.2
37.5°	4579.9	3792.5	2319.5	1503.7	1360.4	1328.7	1274.0	1207.3	1143.9	1132.9
40°	5134.3	3831.9	2010.0	1381.2	1318.8	1272.9	1206.2	1127.5	1066.2	1062.9
42.5°	5642.8	3756.4	1681.9	1297.0	1277.3	1216.0	1146.1	1076.1	1028.0	1026.9
45°	6069.3	3560.7	1406.3	1217.1	1233.5	1164.7	1102.3	1045.5	1008.3	1000.6
47.5°	6470.6	3284.0	1212.8	1132.9	1189.8	1136.2	1083.7	1030.1	994.1	988.6
50°	6936.5	2985.4	1077.2	1050.9	1151.5	1126.4	1099.0	1043.3	983.1	976.6
52.5°	7500.8	2727.4	971.1	978.7	1122.0	1139.5	1138.4	1080.4	975.5	966.7
55°	8130.7	2440.8	891.3	919.7	1110.0	1163.6	1148.2	1115.4	982.0	968.9
57.5°	8750.7	2106.2	835.5	874.9	1092.5	1161.4	1101.2	1054.2	997.3	978.7
60°	9215.5	1656.8	792.8	835.5	1054.2	1125.3	1049.8	987.5	994.1	979.8
62.5°	9246.1	1280.6	741.4	801.6	996.2	1089.2	1015.9	958.0	1008.3	995.1
65°	8702.6	967.8	692.2	761.1	933.9	1066.2	983.1	941.6	1037.8	1023.6
67.5°	7326.9	778.6	650.7	719.6	871.6	1018.1	953.6	926.3	1064.0	1038.9
70°	5289.6	663.8	610.2	669.3	815.8	963.4	927.3	898.9	993.0	953.6
72.5°	3256.6	575.2	564.3	602.6	773.2	906.6	888.0	847.5	894.5	862.8
75°	1626.1	498.7	512.9	536.9	713.0	842.0	822.4	781.9	788.5	781.9
77.5°	778.6	426.5	452.7	471.3	635.4	768.8	748.0	706.4	698.8	699.9
80°	493.2	356.5	381.7	394.8	567.6	683.5	662.7	621.1	708.6	657.2
82.5°	308.4	289.8	296.4	320.4	494.3	594.9	567.6	530.4	638.6	505.2
85°	170.6	202.3	211.1	231.8	380.6	497.6	470.2	423.2	379.5	372.9
87.5°	101.7	120.3	123.6	138.9	255.9	359.8	318.2	301.8	250.4	249.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)