

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: P193174

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193174
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-06-LED-E1-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 22691 lumens
Efficiency: N/A
Efficacy: 117.6 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 - G4

Input Watts (W): 193
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

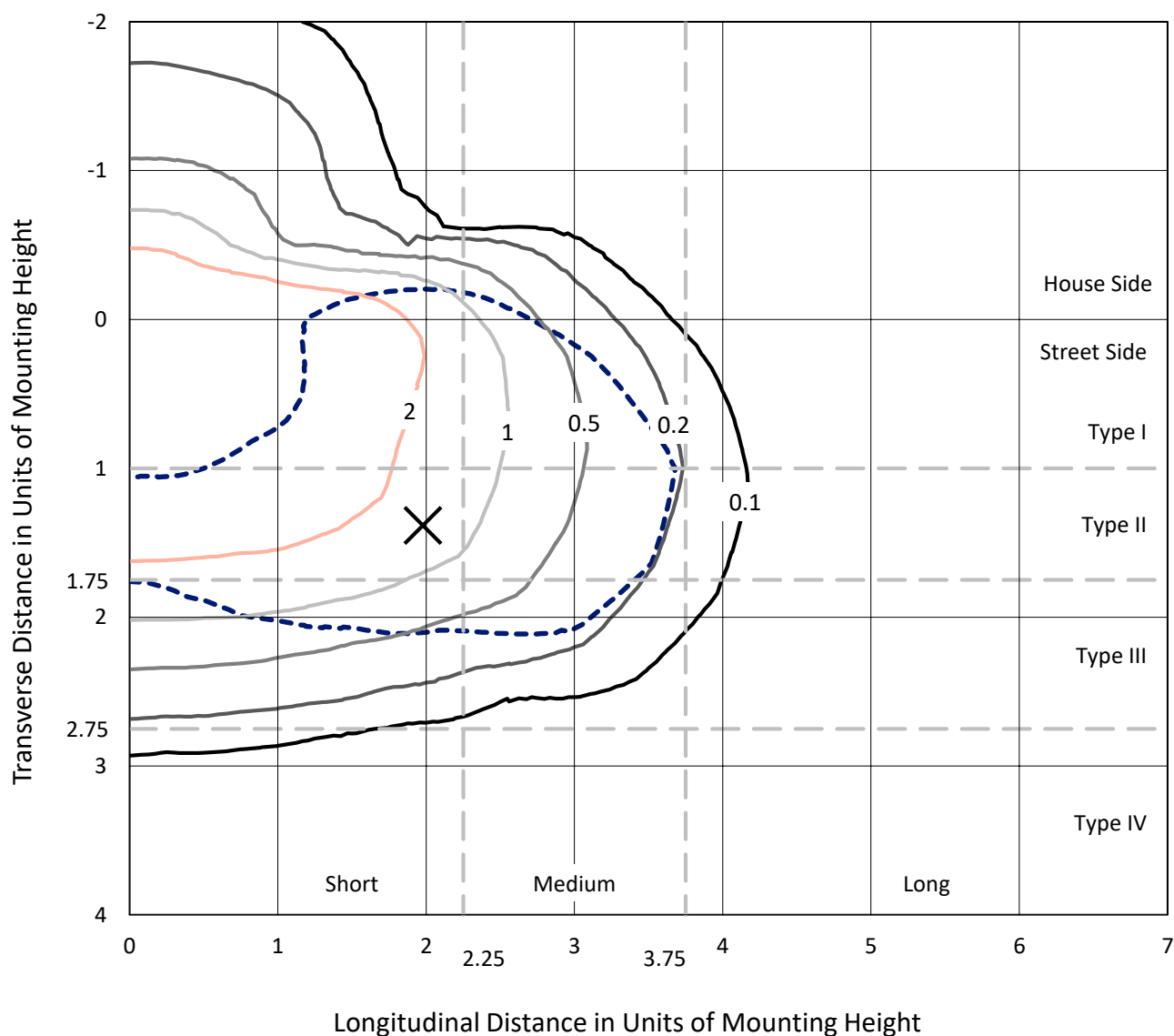


REPORT NUMBER: P193174

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

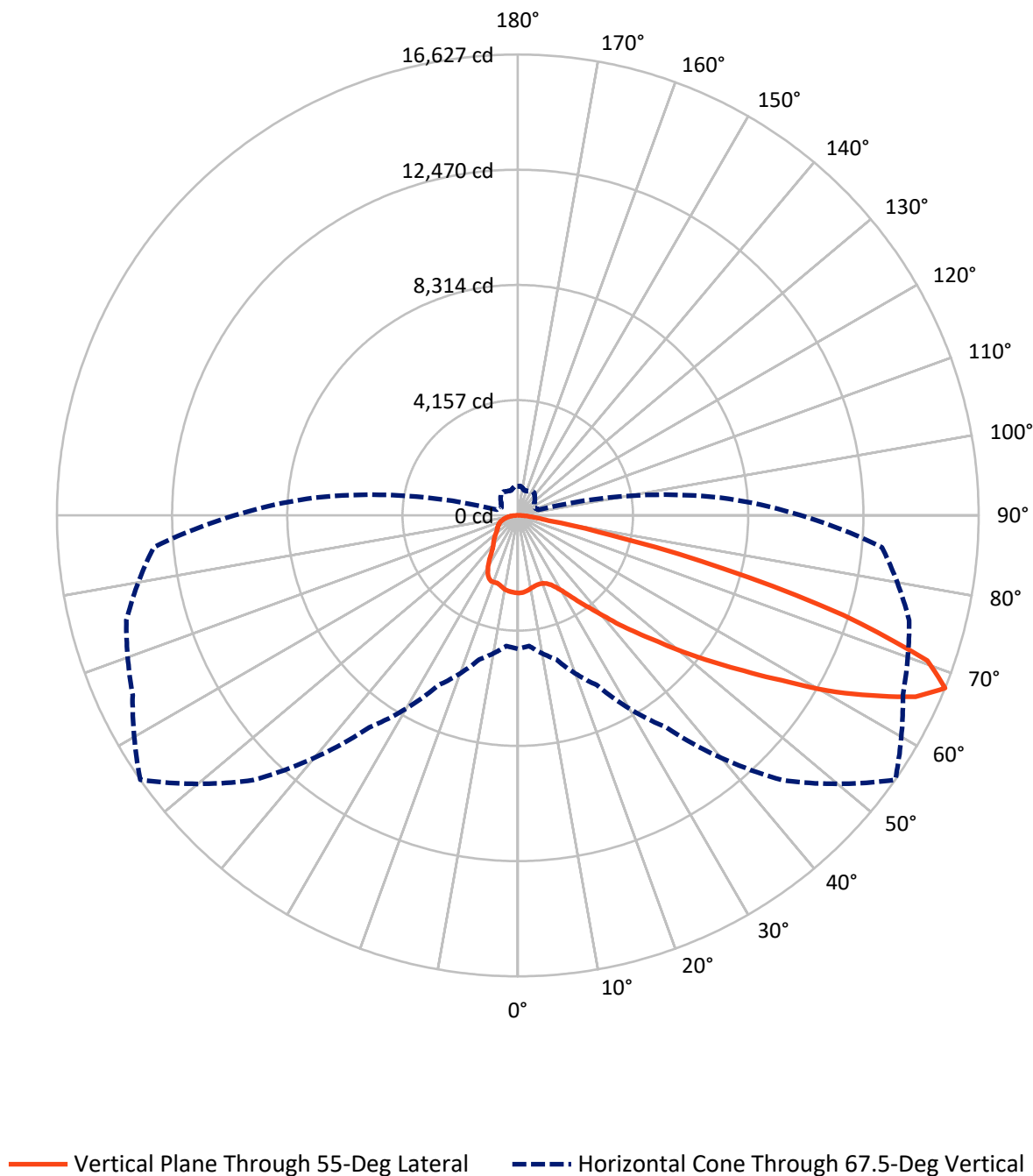


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193174

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7030-600

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4901.7	0.0	4901.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17789.2	0.0	17789.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	22691.0	0.0	22691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.2
10°-20°	739.7	3.3
20°-30°	1239.0	5.5
30°-40°	2037.5	9.0
40°-50°	3429.8	15.1
50°-60°	5398.2	23.8
60°-70°	6442.1	28.4
70°-80°	2766.4	12.2
80°-90°	377.2	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°	22691.0	100.0
0°-180°	22691.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193174

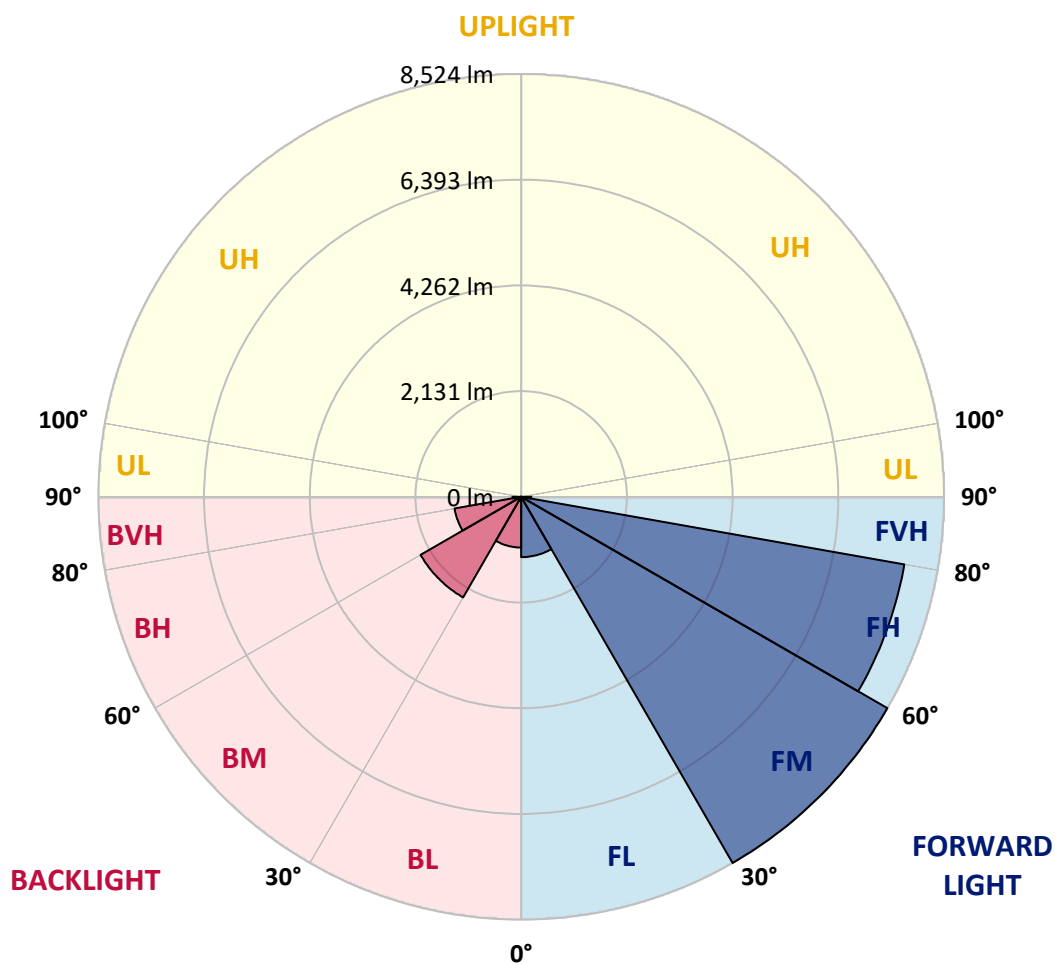
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.3	5.4			
FM	(30°-60°)	8524.4	37.6			
FH	(60°-80°)	7844.4	34.6			G4/12000
FVH	(80°-90°)	204.2	0.9			G2/225
BL	(0°-30°)	1023.6	4.5	B3/2500		
BM	(30°-60°)	2341.0	10.3	B2/2500		
BH	(60°-80°)	1364.1	6.0	B3/2500		G3/2500
BVH	(80°-90°)	173.0	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: P193174

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2774.0	2775.0	2777.3	2786.0	2793.6	2791.5	2792.5	2788.2	2787.1	2780.5	2787.1
5°	2738.9	2742.2	2743.3	2757.4	2766.2	2768.4	2765.2	2759.7	2753.2	2746.6	2749.8
7.5°	2658.9	2667.7	2668.7	2688.5	2702.7	2721.3	2722.4	2723.5	2720.2	2715.8	2722.4
10°	2608.4	2610.6	2609.5	2623.8	2634.8	2655.5	2667.7	2688.5	2697.2	2699.4	2703.8
12.5°	2605.2	2603.0	2599.8	2599.8	2596.4	2605.2	2627.0	2656.6	2677.5	2684.1	2689.5
15°	2640.2	2639.1	2628.1	2611.8	2590.9	2584.3	2603.0	2635.9	2663.2	2677.5	2683.0
17.5°	2719.1	2712.6	2695.0	2657.7	2612.8	2595.2	2597.5	2624.9	2656.6	2675.3	2680.7
20°	2863.8	2863.8	2826.5	2756.4	2676.5	2634.8	2615.0	2631.4	2662.1	2687.3	2695.0
22.5°	3113.7	3115.8	3053.4	2938.3	2803.5	2714.8	2665.4	2662.1	2698.2	2726.8	2735.6
25°	3467.7	3458.9	3371.2	3206.9	3001.9	2855.1	2769.5	2749.8	2780.5	2812.4	2823.3
27.5°	3879.8	3848.0	3743.9	3545.5	3280.3	3065.5	2933.9	2902.2	2931.8	2967.9	2978.9
30°	4287.5	4254.5	4130.8	3913.7	3618.8	3347.1	3158.5	3107.2	3148.8	3200.3	3206.9
32.5°	4695.2	4695.2	4557.1	4303.9	3982.8	3683.5	3457.8	3396.5	3465.4	3528.0	3542.1
35°	5182.9	5185.1	5051.4	4746.7	4401.5	4084.7	3836.0	3791.0	3895.1	3939.1	3972.8
37.5°	5782.4	5794.4	5622.4	5254.2	4876.0	4542.9	4246.9	4185.5	4289.6	4409.1	4518.8
40°	6430.1	6445.4	6255.8	5802.1	5424.0	5075.5	4755.5	4644.7	4817.9	5045.9	5187.3
42.5°	7048.4	7127.2	6944.2	6477.2	6070.7	5710.1	5385.6	5224.6	5441.5	5785.8	5908.4
45°	7941.5	7998.5	7679.5	7256.5	6874.0	6470.7	6041.1	5871.1	6174.8	6608.8	6634.0
47.5°	8536.7	8493.9	8331.7	8068.6	7826.5	7449.4	6802.8	6616.4	7019.8	7530.4	7389.1
50°	8853.4	8866.5	8844.5	8860.0	8868.7	8631.9	7736.5	7481.2	7962.3	8579.4	8253.9
52.5°	9149.3	9061.6	9134.0	9493.4	9927.4	9839.8	8752.5	8486.1	8972.8	9743.3	9168.0
55°	9142.7	9009.0	9244.7	9879.2	10820.6	10921.4	9893.4	9586.5	10041.4	10991.6	10136.7
57.5°	8819.4	8826.0	9188.7	10019.5	11443.2	11938.5	11217.4	10757.1	11174.6	12256.3	11021.2
60°	8374.4	8434.7	8957.5	9996.4	11941.8	12772.6	12841.7	12018.5	12284.9	13406.1	11753.3
62.5°	7656.6	7720.2	8441.3	9757.5	11866.2	13575.9	14310.2	13450.0	13445.6	14103.0	11968.1
65°	6524.4	6505.8	7263.1	8864.3	11231.7	14170.0	15769.0	14687.2	14320.1	14114.1	11536.3
67.5°	4811.3	4728.0	5378.0	6751.2	9335.5	13504.7	16627.2	15331.7	14618.3	13185.7	10216.8
70°	2496.7	2413.3	2939.4	3942.3	6139.8	10540.0	15676.9	14998.6	13959.5	11053.0	8004.0
72.5°	1067.5	1053.3	1267.0	1729.5	2970.1	6079.4	12292.5	12981.9	11978.0	8235.2	5503.0
75°	717.9	713.5	793.4	942.6	1336.0	2467.1	7692.7	9215.0	8763.4	5106.2	3095.1
77.5°	563.3	557.9	605.0	677.3	865.9	973.3	3414.1	4947.3	4579.0	2222.7	1354.6
80°	440.6	436.2	465.8	505.3	622.6	613.7	1123.4	1968.5	1523.4	851.5	658.8
82.5°	347.5	347.5	371.6	372.7	441.7	418.7	586.4	867.0	760.7	496.5	403.2
85°	317.8	317.8	343.1	278.4	288.2	264.1	363.9	514.1	482.3	203.9	175.4
87.5°	160.1	155.5	288.2	246.6	156.7	140.3	177.5	248.8	267.4	112.9	87.6
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: P193174

CATALOG NUMBER: GLEON-AF-06-LED-E1-T3-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2784.9	2783.8	2786.0	2787.1	2795.8	2807.9	2813.4	2821.1	2825.5	2823.3
5°	2752.0	2754.2	2762.9	2769.5	2784.9	2804.5	2815.6	2824.4	2832.0	2828.7
7.5°	2724.6	2730.1	2743.3	2748.8	2757.4	2762.9	2761.8	2765.2	2771.7	2764.0
10°	2709.3	2715.8	2725.7	2718.1	2697.2	2667.7	2640.2	2625.9	2630.3	2624.9
12.5°	2693.9	2702.7	2695.0	2658.9	2600.8	2562.4	2541.6	2543.8	2553.6	2555.8
15°	2685.1	2688.5	2655.5	2587.6	2528.5	2522.9	2533.9	2531.7	2532.8	2532.8
17.5°	2685.1	2676.5	2615.0	2547.1	2521.8	2512.0	2478.0	2435.3	2416.6	2410.0
20°	2699.4	2676.5	2601.9	2556.8	2502.1	2417.7	2327.9	2249.0	2213.9	2204.0
22.5°	2742.2	2702.7	2639.1	2561.4	2405.7	2264.3	2121.9	2027.6	1964.1	1953.0
25°	2828.7	2784.9	2712.6	2503.2	2252.3	2050.6	1888.3	1783.1	1719.6	1710.8
27.5°	2979.9	2951.5	2752.0	2375.0	2048.4	1832.5	1682.4	1601.2	1554.1	1550.8
30°	3208.0	3193.6	2732.2	2185.4	1797.5	1621.0	1548.6	1501.5	1466.5	1465.2
32.5°	3571.8	3456.8	2667.7	1954.1	1568.3	1470.8	1441.2	1412.7	1385.3	1385.3
35°	4039.8	3669.4	2544.8	1706.4	1429.1	1387.5	1350.2	1305.3	1269.1	1267.0
37.5°	4590.0	3800.9	2324.6	1507.0	1363.4	1331.7	1276.8	1209.9	1146.3	1135.4
40°	5145.7	3840.4	2014.4	1384.2	1321.7	1275.7	1208.9	1130.0	1068.5	1065.3
42.5°	5655.3	3764.7	1685.7	1299.8	1280.1	1218.8	1148.7	1078.5	1030.2	1029.1
45°	6082.7	3568.5	1409.5	1219.9	1236.3	1167.2	1104.7	1047.8	1010.5	1002.8
47.5°	6485.0	3291.2	1215.4	1135.4	1192.4	1138.7	1086.1	1032.4	996.2	990.8
50°	6951.8	2992.1	1079.6	1053.3	1154.1	1128.8	1101.5	1045.6	985.3	978.8
52.5°	7517.4	2733.3	973.3	980.9	1124.5	1142.0	1140.8	1082.9	977.7	968.8
55°	8148.7	2446.2	893.2	921.7	1112.4	1166.2	1150.8	1117.9	984.2	971.0
57.5°	8770.0	2110.9	837.4	876.8	1094.9	1163.9	1103.6	1056.5	999.5	980.9
60°	9235.8	1660.4	794.6	837.4	1056.5	1127.8	1052.1	989.7	996.2	982.0
62.5°	9266.5	1283.4	743.1	803.4	998.4	1091.6	1018.2	960.1	1010.5	997.3
65°	8721.8	969.9	693.8	762.8	936.0	1068.5	985.3	943.7	1040.0	1025.8
67.5°	7343.1	780.3	652.1	721.1	873.5	1020.4	955.7	928.2	1066.4	1041.1
70°	5301.3	665.3	611.6	670.8	817.6	965.6	929.4	901.0	995.2	955.7
72.5°	3263.8	576.5	565.5	603.8	774.8	908.6	889.9	849.4	896.5	864.7
75°	1629.7	499.8	514.1	538.1	714.5	843.9	824.2	783.6	790.2	783.6
77.5°	780.3	427.4	453.8	472.3	636.8	770.5	749.6	708.0	700.4	701.5
80°	494.3	357.3	382.5	395.6	568.8	684.9	664.2	622.6	710.1	658.8
82.5°	309.1	290.4	296.9	321.1	495.4	596.2	568.8	531.5	640.0	506.3
85°	171.0	202.7	211.5	232.4	381.5	498.7	471.2	424.2	380.3	373.7
87.5°	101.9	120.5	123.9	139.2	256.4	360.5	318.9	302.5	251.0	249.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)