

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: P193993

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193993
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-T3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24281 lumens
Efficiency: N/A
Efficacy: 87.0 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): 279
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

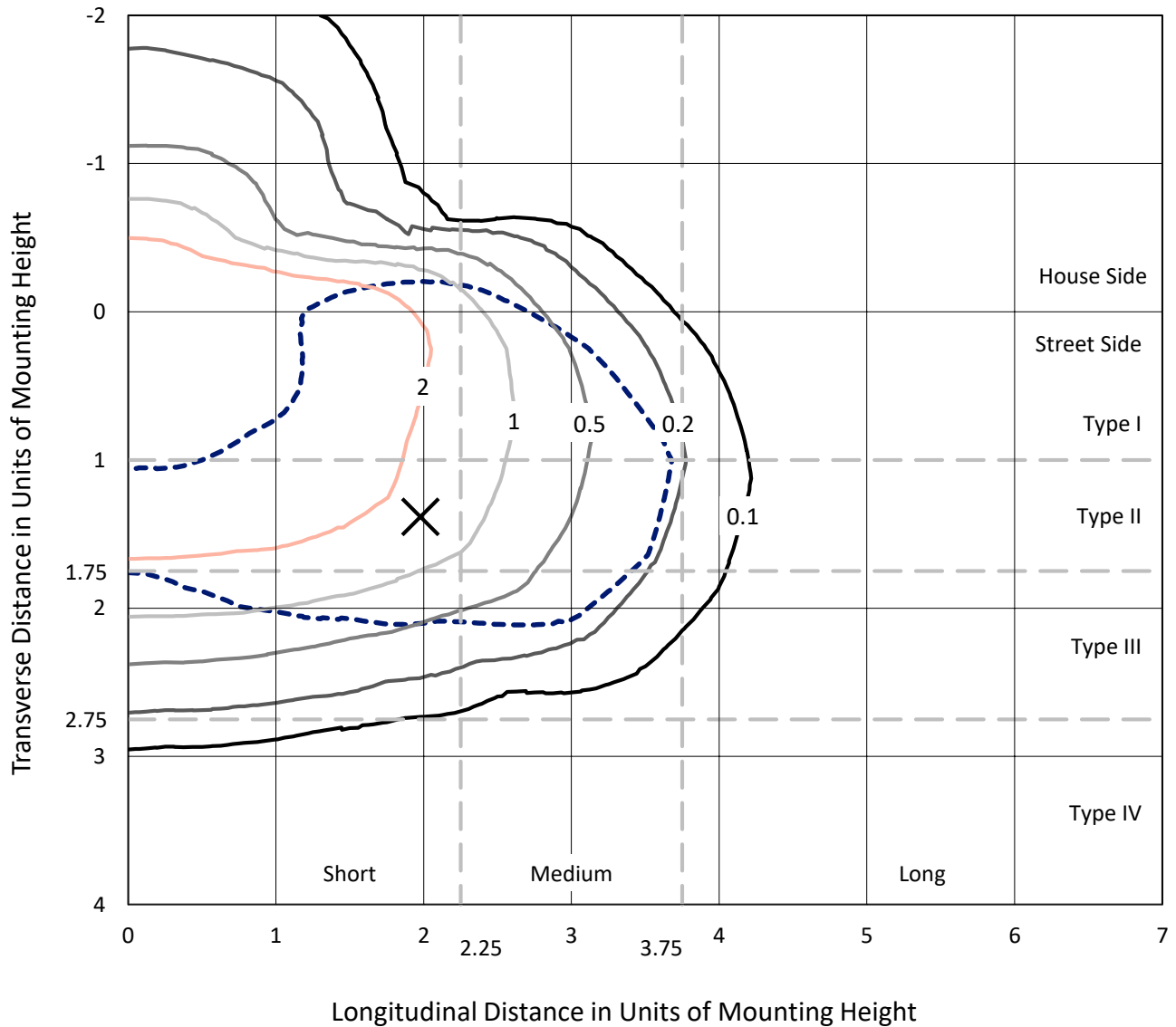


REPORT NUMBER: P193993

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

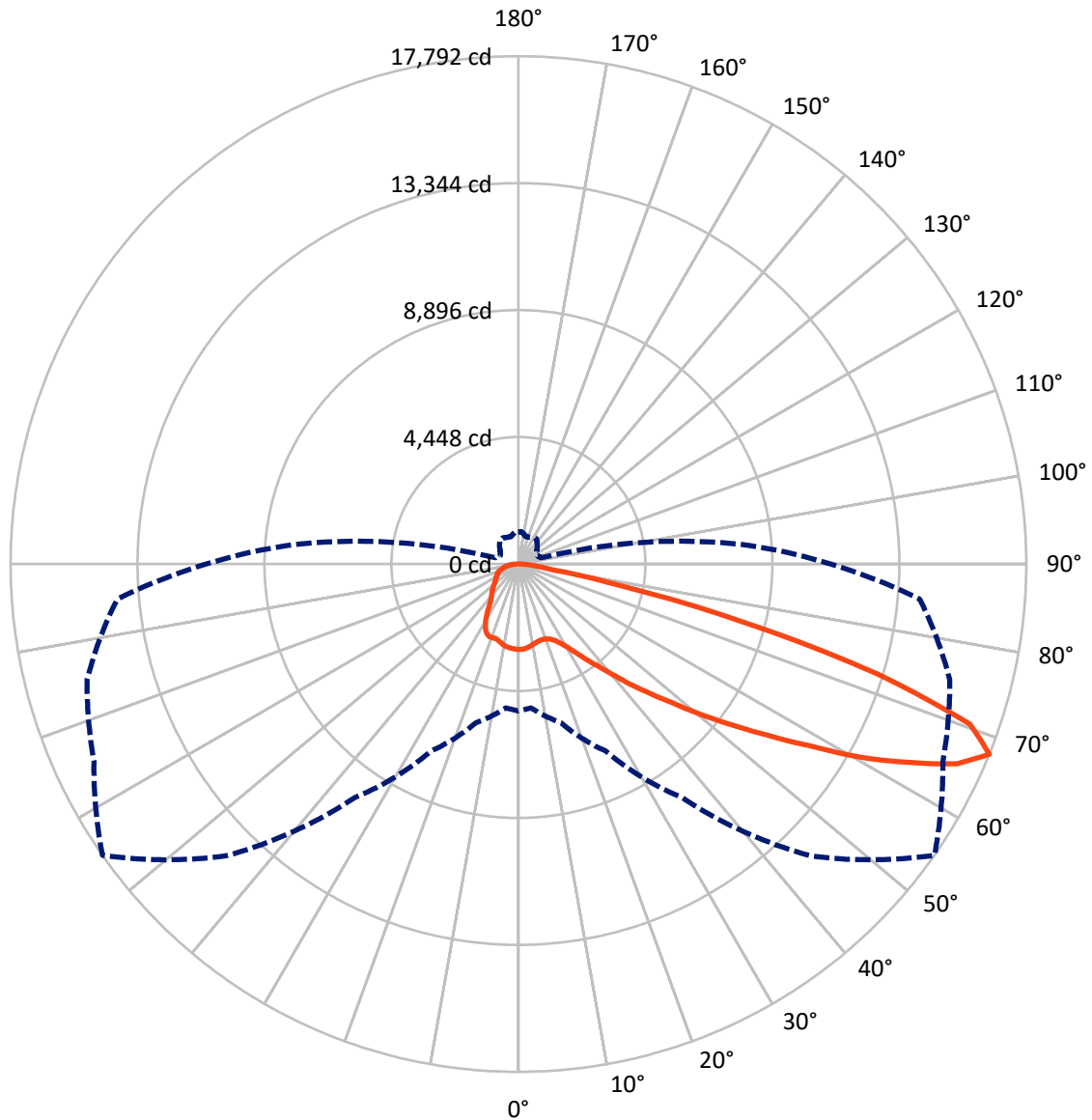


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193993

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030

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-05-LED-E1-T3-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5245.2	0.0	5245.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19035.8	0.0	19035.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	24281.0	0.0	24281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.2
10°-20°	791.5	3.3
20°-30°	1325.9	5.5
30°-40°	2180.3	9.0
40°-50°	3670.1	15.1
50°-60°	5776.4	23.8
60°-70°	6893.6	28.4
70°-80°	2960.2	12.2
80°-90°	403.6	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°	24281.0	100.0
0°-180°	24281.0	100.0



REPORT NUMBER: P193993

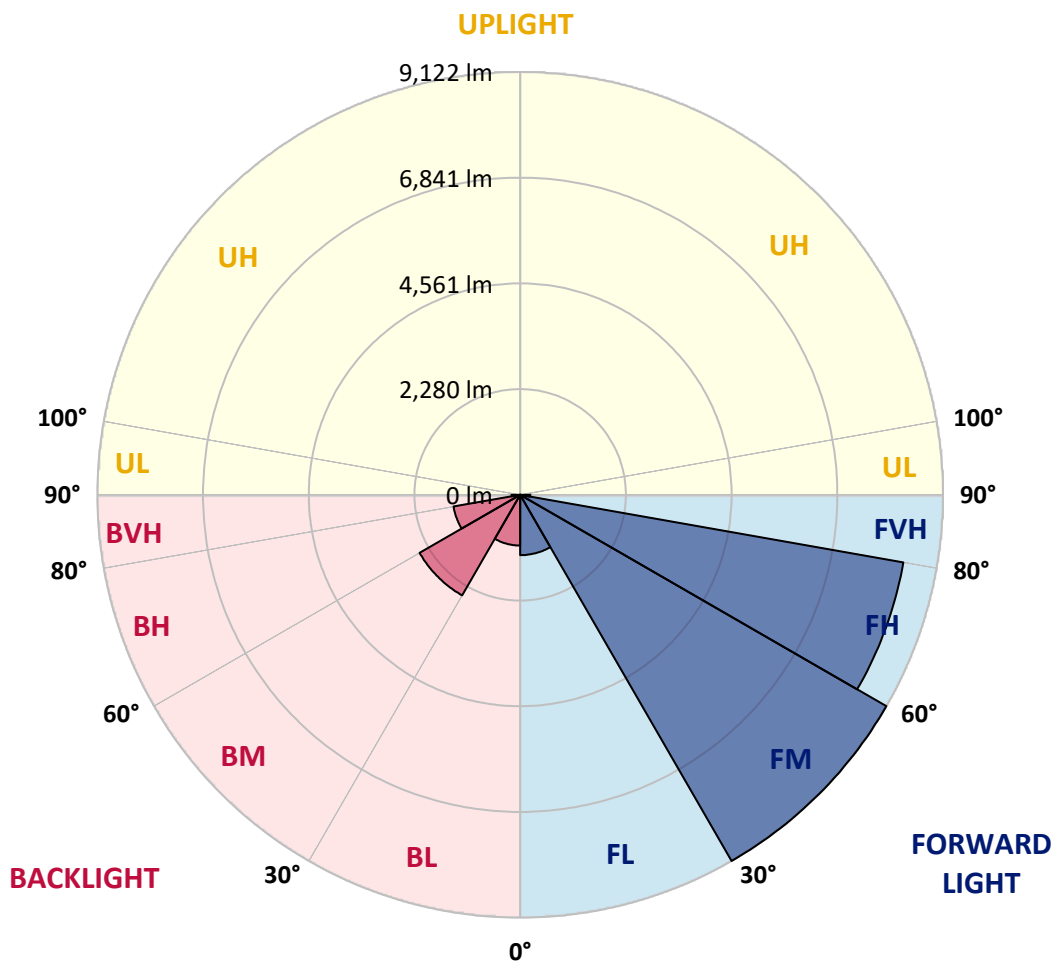
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1301.5	5.4			
FM	(30°-60°)	9121.7	37.6			
FH	(60°-80°)	8394.1	34.6			G4/12000
FVH	(80°-90°)	218.5	0.9			G2/225
BL	(0°-30°)	1095.3	4.5	B3/2500		
BM	(30°-60°)	2505.1	10.3	B3/5000		
BH	(60°-80°)	1459.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	185.1	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-G4

Type III Short





REPORT NUMBER: P193993

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1
2.5°	2968.3	2969.5	2971.8	2981.2	2989.4	2987.1	2988.2	2983.6	2982.4	2975.3	2982.4
5°	2930.8	2934.3	2935.5	2950.7	2960.1	2962.4	2958.9	2953.1	2946.0	2939.0	2942.5
7.5°	2845.2	2854.6	2855.7	2876.8	2892.1	2912.0	2913.2	2914.4	2910.8	2906.2	2913.2
10°	2791.2	2793.6	2792.4	2807.6	2819.4	2841.7	2854.6	2876.8	2886.2	2888.6	2893.3
12.5°	2787.7	2785.4	2781.8	2781.8	2778.3	2787.7	2811.2	2842.8	2865.1	2872.1	2878.0
15°	2825.2	2824.1	2812.3	2794.7	2772.5	2765.4	2785.4	2820.5	2849.9	2865.1	2871.0
17.5°	2909.7	2902.6	2883.9	2844.0	2795.9	2777.1	2779.5	2808.8	2842.8	2862.8	2868.6
20°	3064.5	3064.5	3024.6	2949.5	2863.9	2819.4	2798.3	2815.8	2848.7	2875.7	2883.9
22.5°	3331.9	3334.2	3267.4	3144.2	3000.0	2905.0	2852.2	2848.7	2887.4	2917.9	2927.3
25°	3710.7	3701.3	3607.5	3431.6	3212.2	3055.1	2963.6	2942.5	2975.3	3009.4	3021.1
27.5°	4151.6	4117.6	4006.2	3793.9	3510.1	3280.3	3139.5	3105.5	3137.2	3175.9	3187.6
30°	4587.9	4552.7	4420.2	4188.0	3872.5	3581.7	3380.0	3324.8	3369.4	3424.5	3431.6
32.5°	5024.2	5024.2	4876.4	4605.5	4261.9	3941.7	3700.1	3634.5	3708.3	3775.2	3790.4
35°	5546.1	5548.4	5405.4	5079.3	4709.9	4371.0	4104.7	4056.7	4168.1	4215.0	4251.3
37.5°	6187.6	6200.5	6016.4	5622.3	5217.7	4861.2	4544.5	4478.9	4590.3	4718.1	4835.4
40°	6880.7	6897.1	6694.2	6208.7	5804.1	5431.2	5088.7	4970.3	5155.5	5399.5	5550.8
42.5°	7542.2	7626.6	7430.7	6931.1	6496.0	6110.2	5763.1	5590.7	5822.9	6191.1	6322.5
45°	8498.0	8559.0	8217.7	7765.0	7355.7	6924.1	6464.4	6282.6	6607.5	7071.9	7098.8
47.5°	9134.8	9089.1	8915.5	8634.0	8374.8	7971.4	7279.5	7080.1	7511.7	8058.2	7906.9
50°	9473.7	9487.8	9464.4	9480.8	9490.2	9236.8	8278.7	8005.4	8520.3	9180.5	8832.2
52.5°	9790.4	9696.6	9774.0	10158.6	10623.1	10529.2	9365.8	9080.9	9601.6	10426.0	9810.3
55°	9783.3	9640.3	9892.4	10571.5	11578.9	11686.8	10586.7	10258.3	10745.0	11761.8	10847.1
57.5°	9437.4	9444.4	9832.6	10721.6	12245.0	12775.1	12003.4	11510.9	11957.7	13115.2	11793.5
60°	8961.2	9025.7	9585.1	10696.9	12778.6	13667.6	13741.5	12860.7	13145.7	14345.5	12576.9
62.5°	8193.1	8261.1	9032.8	10441.3	12697.7	14527.3	15313.0	14392.4	14387.7	15091.4	12806.8
65°	6981.6	6961.6	7772.0	9485.5	12018.7	15162.9	16874.0	15716.5	15323.6	15103.1	12344.7
67.5°	5148.5	5059.4	5754.8	7224.3	9989.8	14451.0	17792.3	16406.0	15642.6	14109.7	10932.7
70°	2671.6	2582.5	3145.4	4218.5	6569.9	11278.6	16775.5	16049.5	14937.7	11827.5	8564.8
72.5°	1142.3	1127.0	1355.7	1850.7	3178.2	6505.4	13153.9	13891.6	12817.3	8812.3	5888.5
75°	768.2	763.5	849.1	1008.6	1429.6	2639.9	8231.8	9860.8	9377.6	5464.0	3311.9
77.5°	602.8	596.9	647.4	724.8	926.5	1041.4	3653.2	5293.9	4899.9	2378.4	1449.6
80°	471.5	466.8	498.4	540.7	666.1	656.8	1202.1	2106.3	1630.2	911.3	704.8
82.5°	371.8	371.8	397.6	398.7	472.6	448.0	627.4	927.7	813.9	531.3	431.6
85°	340.1	340.1	367.1	297.9	308.4	282.6	389.4	550.0	516.0	218.1	187.6
87.5°	171.2	166.5	308.4	263.9	167.7	150.1	190.0	266.2	286.2	120.8	93.8
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: P193993

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1	2994.1
2.5°	2980.0	2978.9	2981.2	2982.4	2991.8	3004.7	3010.5	3018.7	3023.4	3021.1
5°	2944.9	2947.2	2956.6	2963.6	2980.0	3001.1	3012.9	3022.3	3030.5	3027.0
7.5°	2915.5	2921.4	2935.5	2941.3	2950.7	2956.6	2955.4	2958.9	2966.0	2957.8
10°	2899.1	2906.2	2916.7	2908.5	2886.2	2854.6	2825.2	2810.0	2814.7	2808.8
12.5°	2882.7	2892.1	2883.9	2845.2	2783.0	2742.0	2719.7	2722.0	2732.6	2734.9
15°	2873.3	2876.8	2841.7	2768.9	2705.6	2699.7	2711.5	2709.1	2710.3	2710.3
17.5°	2873.3	2863.9	2798.3	2725.5	2698.6	2688.0	2651.7	2605.9	2586.0	2578.9
20°	2888.6	2863.9	2784.2	2736.1	2677.5	2587.2	2491.0	2406.5	2369.0	2358.5
22.5°	2934.3	2892.1	2824.1	2740.8	2574.3	2423.0	2270.5	2169.6	2101.6	2089.9
25°	3027.0	2980.0	2902.6	2678.6	2410.1	2194.3	2020.7	1908.1	1840.1	1830.7
27.5°	3188.8	3158.3	2944.9	2541.4	2191.9	1960.9	1800.2	1713.4	1663.0	1659.5
30°	3432.7	3417.5	2923.7	2338.5	1923.4	1734.5	1657.1	1606.7	1569.2	1568.0
32.5°	3822.1	3699.0	2854.6	2091.1	1678.3	1573.9	1542.2	1511.7	1482.4	1482.4
35°	4322.9	3926.5	2723.2	1826.0	1529.3	1484.7	1444.9	1396.8	1358.1	1355.7
37.5°	4911.6	4067.2	2487.5	1612.6	1458.9	1424.9	1366.3	1294.8	1226.7	1215.0
40°	5506.2	4109.4	2155.6	1481.2	1414.4	1365.1	1293.6	1209.1	1143.5	1139.9
42.5°	6051.6	4028.5	1803.7	1390.9	1369.8	1304.1	1229.1	1154.0	1102.4	1101.2
45°	6508.9	3818.6	1508.2	1305.3	1322.9	1249.0	1182.2	1121.2	1081.3	1073.1
47.5°	6939.4	3521.9	1300.6	1215.0	1276.0	1218.5	1162.2	1104.8	1066.1	1060.2
50°	7439.0	3201.7	1155.2	1127.0	1234.9	1208.0	1178.6	1118.8	1054.3	1047.3
52.5°	8044.1	2924.9	1041.4	1049.6	1203.3	1222.0	1220.9	1158.7	1046.1	1036.7
55°	8719.6	2617.6	955.8	986.3	1190.4	1247.8	1231.4	1196.2	1053.2	1039.1
57.5°	9384.6	2258.8	896.0	938.2	1171.6	1245.5	1181.0	1130.6	1069.6	1049.6
60°	9883.0	1776.8	850.3	896.0	1130.6	1206.8	1125.9	1059.0	1066.1	1050.8
62.5°	9915.9	1373.3	795.1	859.6	1068.4	1168.1	1089.5	1027.4	1081.3	1067.2
65°	9333.0	1037.9	742.4	816.3	1001.6	1143.5	1054.3	1009.8	1113.0	1097.7
67.5°	7857.6	835.0	697.8	771.7	934.7	1091.9	1022.7	993.3	1141.1	1114.1
70°	5672.7	711.9	654.4	717.7	874.9	1033.2	994.5	964.0	1064.9	1022.7
72.5°	3492.5	616.9	605.2	646.2	829.2	972.2	952.3	908.9	959.3	925.3
75°	1743.9	534.8	550.0	575.8	764.7	903.0	881.9	838.5	845.6	838.5
77.5°	835.0	457.4	485.5	505.5	681.4	824.5	802.2	757.6	749.4	750.6
80°	528.9	382.3	409.3	423.4	608.7	733.0	710.7	666.1	760.0	704.8
82.5°	330.7	310.8	317.8	343.6	530.1	638.0	608.7	568.8	684.9	541.8
85°	183.0	217.0	226.3	248.6	408.1	533.6	504.3	453.9	407.0	399.9
87.5°	109.1	129.0	132.5	148.9	274.4	385.8	341.3	323.7	268.6	267.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)