

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: P192382

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26156 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

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

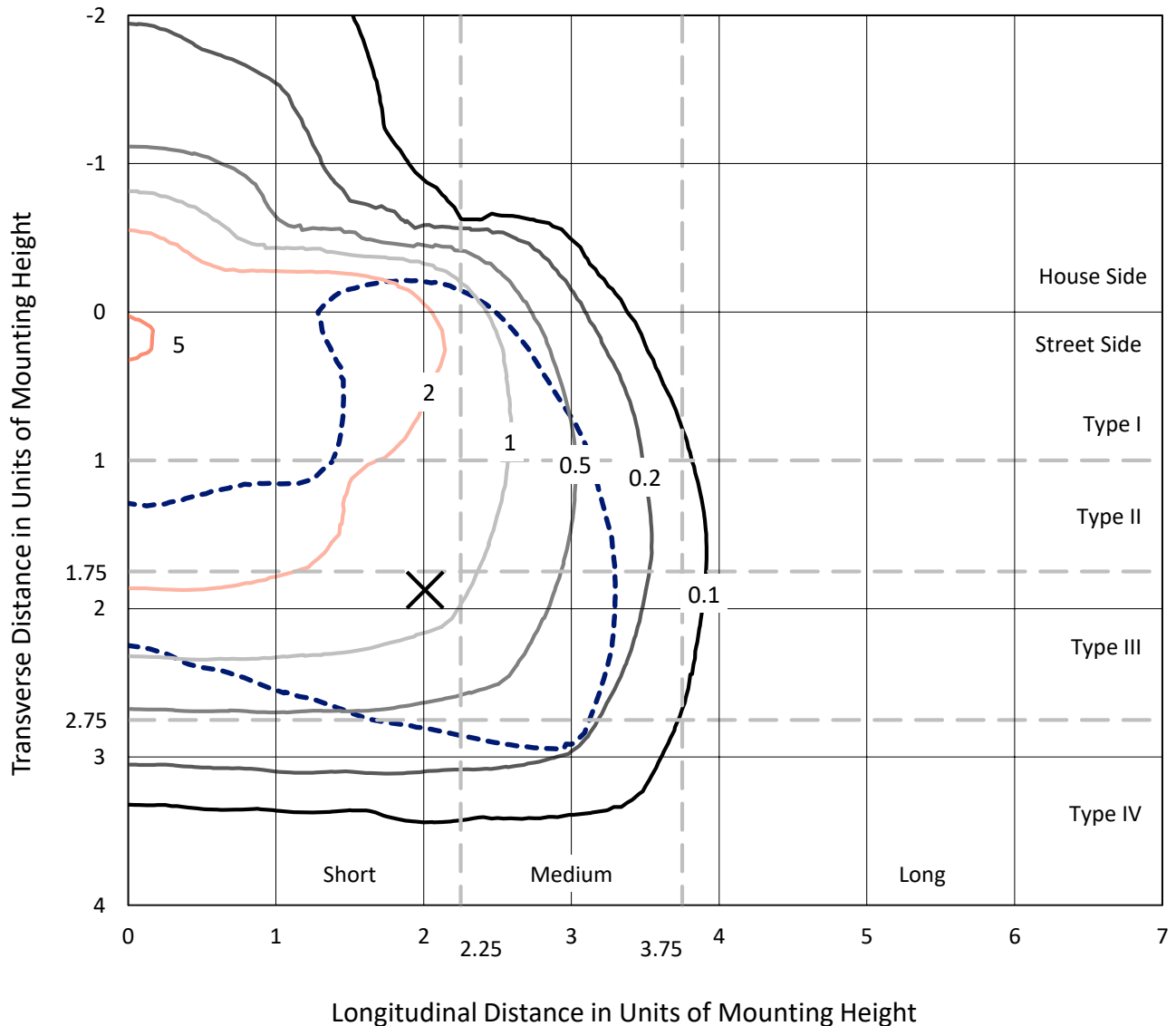


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

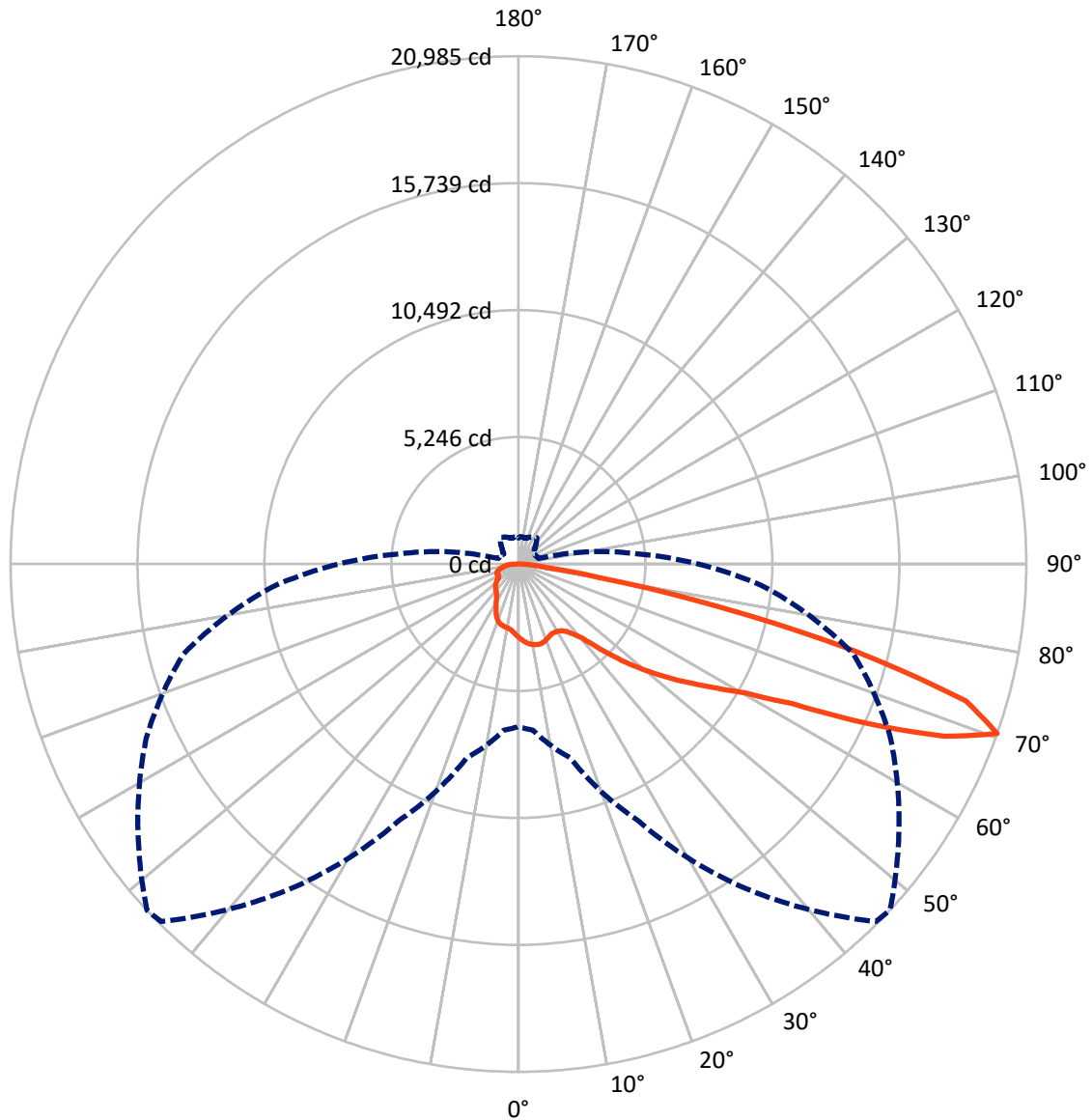


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5456.6	0.0	5456.6
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	20699.3	0.0	20699.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	26156.0	0.0	26156.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.8	1.1
10°-20°	853.1	3.3
20°-30°	1259.8	4.8
30°-40°	1831.1	7.0
40°-50°	3295.4	12.6
50°-60°	5708.9	21.8
60°-70°	8148.3	31.2
70°-80°	4182.9	16.0
80°-90°	585.6	2.2
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°	26156.0	100.0
0°-180°	26156.0	100.0



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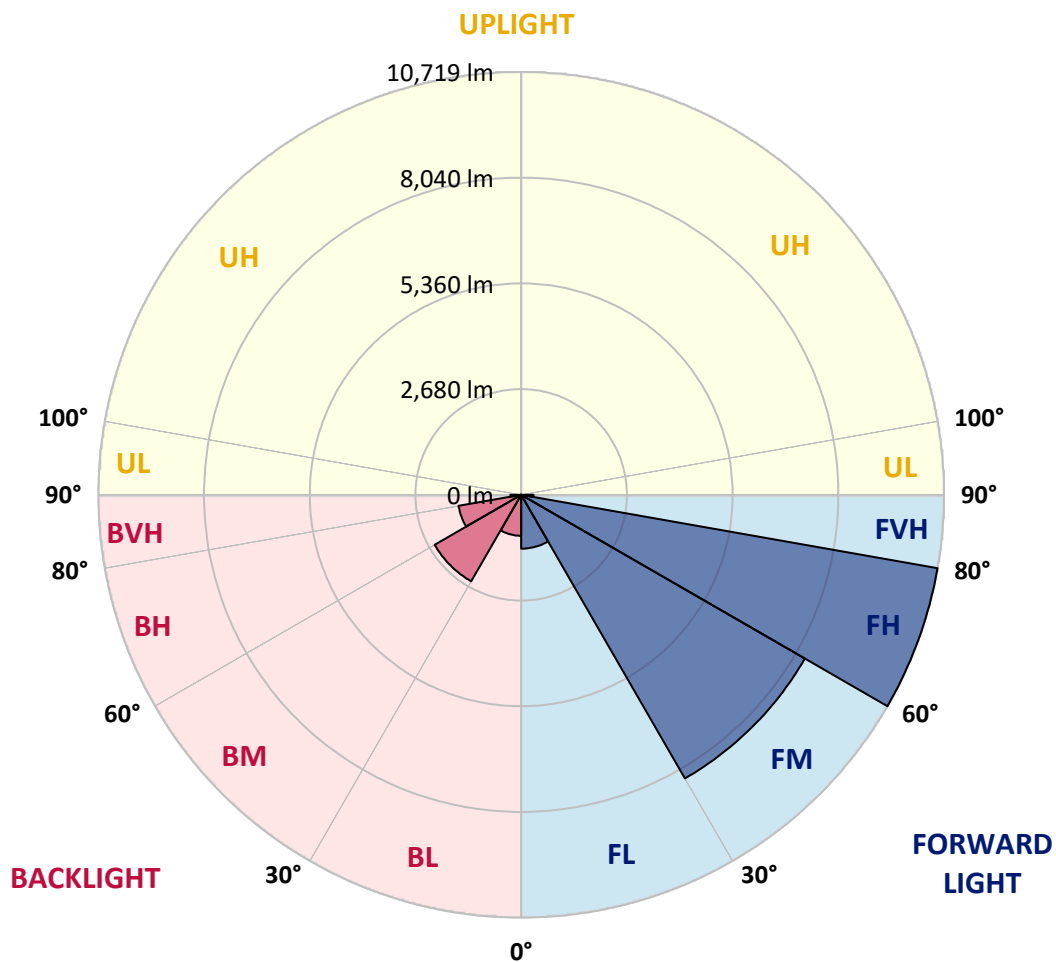
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.8	5.2			
FM	(30°-60°)	8302.6	31.7			
FH	(60°-80°)	10719.4	41.0			G4/12000
FVH	(80°-90°)	312.5	1.2			G3/500
BL	(0°-30°)	1039.0	4.0	B3/2500		
BM	(30°-60°)	2532.8	9.7	B3/5000		
BH	(60°-80°)	1611.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	273.1	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9
2.5°	3213.1	3206.7	3204.2	3199.1	3192.7	3160.9	3154.5	3131.6	3099.8	3066.7	3032.4
5°	3424.3	3423.0	3409.0	3383.6	3342.9	3272.9	3256.3	3200.3	3125.3	3052.7	2980.2
7.5°	3610.1	3598.6	3571.9	3521.0	3449.7	3354.3	3331.4	3253.8	3150.7	3051.5	2953.5
10°	3746.2	3739.9	3681.3	3611.4	3518.5	3412.8	3386.1	3299.6	3186.3	3060.4	2938.2
12.5°	3823.9	3811.1	3743.7	3659.7	3549.0	3445.9	3419.2	3331.4	3204.2	3060.4	2916.6
15°	3818.8	3809.9	3742.4	3650.8	3538.8	3448.5	3424.3	3336.5	3200.3	3047.6	2888.6
17.5°	3717.0	3720.8	3663.5	3573.2	3481.6	3412.8	3391.2	3309.8	3174.9	3022.2	2855.5
20°	3538.8	3556.6	3518.5	3438.3	3387.4	3340.3	3326.3	3257.6	3135.4	2985.3	2819.9
22.5°	3360.7	3377.2	3361.9	3294.5	3286.9	3258.9	3251.2	3201.6	3101.1	2962.4	2798.2
25°	3229.6	3244.9	3242.3	3183.8	3206.7	3205.4	3199.1	3174.9	3093.4	2962.4	2802.0
27.5°	3194.0	3199.1	3194.0	3140.5	3172.3	3197.8	3192.7	3188.9	3116.4	2999.3	2850.4
30°	3316.1	3308.5	3269.1	3160.9	3190.2	3225.8	3220.7	3223.2	3185.1	3096.0	2958.6
32.5°	3803.5	3769.1	3644.4	3340.3	3262.7	3281.8	3284.3	3326.3	3332.7	3244.9	3126.5
35°	4532.6	4494.5	4332.9	3821.3	3487.9	3421.7	3421.7	3485.4	3523.5	3458.7	3387.4
37.5°	5305.0	5263.1	5176.5	4488.1	3961.3	3664.8	3658.4	3703.0	3757.7	3773.0	3790.8
40°	6183.1	6138.5	6162.7	5236.3	4621.7	4086.0	3995.6	3963.8	4111.4	4209.4	4351.9
42.5°	7143.8	7123.4	7132.4	6069.8	5373.8	4715.9	4587.4	4423.2	4601.4	4775.7	5074.7
45°	8033.3	8051.1	8042.2	6961.8	6211.1	5484.5	5348.3	5030.2	5204.5	5503.6	5990.9
47.5°	8812.1	8738.3	8852.8	7936.6	7148.9	6344.7	6176.7	5750.4	5927.3	6296.3	7120.9
50°	9757.5	9747.3	9579.4	9237.1	8282.7	7208.7	6988.6	6494.8	6769.7	7282.5	8544.8
52.5°	10751.3	10566.8	10412.9	10248.7	9485.2	8094.4	7824.6	7236.7	7759.7	8404.9	10280.5
55°	10954.9	10872.2	11063.1	11339.2	10644.5	9014.4	8700.1	8166.9	8874.4	9687.5	12282.2
57.5°	11390.1	11388.9	11783.3	12275.8	11838.1	9990.4	9673.5	9290.5	10127.8	11157.3	14407.2
60°	11684.1	11766.8	12499.8	13455.4	13010.0	11117.8	10826.4	10587.2	11553.0	12800.1	16387.2
62.5°	11838.1	11950.0	12950.2	13933.9	14666.8	12994.8	12703.4	12358.5	13438.9	14601.9	17545.2
65°	11198.0	11418.1	12880.2	14347.4	16117.5	16037.3	15906.2	15300.5	15796.8	16025.9	17126.6
67.5°	9426.7	9651.9	11354.5	13961.9	17153.3	18971.7	18999.7	17965.1	17247.5	16148.0	14399.6
70°	6716.3	6893.1	8301.8	11705.7	16364.3	20889.3	20984.8	19193.1	16958.6	14320.7	10060.4
72.5°	3188.9	3297.0	4630.6	7618.5	12985.9	19139.7	19324.2	17625.4	14420.0	10602.5	5488.3
75°	1172.0	1205.1	1565.2	3241.1	7531.9	14114.6	14332.2	12634.6	9559.0	5278.3	2090.7
77.5°	702.4	724.1	878.0	1367.9	2962.4	8067.6	8389.6	6871.5	4177.6	1964.7	1028.2
80°	491.2	506.5	629.9	851.3	1399.7	3074.4	3360.7	2804.6	1664.4	1243.2	748.2
82.5°	332.1	339.8	442.8	575.2	930.2	1098.2	1184.7	1247.0	1122.3	925.1	474.6
85°	217.6	225.2	300.3	379.2	591.7	567.5	580.3	734.2	819.5	628.6	263.4
87.5°	124.7	129.8	180.7	202.3	290.1	240.5	243.0	386.8	524.3	423.7	160.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9	3034.9
2.5°	3023.5	3006.9	2970.0	2947.1	2925.5	2920.4	2911.5	2910.2	2908.9	2908.9	2905.1
5°	2956.0	2928.0	2870.8	2838.9	2812.2	2809.7	2808.4	2814.8	2817.3	2819.9	2816.0
7.5°	2912.8	2874.6	2803.3	2757.5	2725.7	2718.1	2730.8	2760.1	2779.1	2786.8	2783.0
10°	2886.0	2838.9	2756.2	2706.6	2679.9	2676.1	2692.6	2727.0	2766.4	2781.7	2780.4
12.5°	2855.5	2802.0	2714.2	2662.1	2646.8	2654.4	2676.1	2707.9	2748.6	2772.8	2774.0
15°	2824.9	2762.6	2672.2	2626.4	2620.1	2630.3	2650.6	2674.8	2706.6	2730.8	2733.3
17.5°	2788.0	2723.1	2632.8	2585.7	2580.6	2585.7	2587.0	2599.7	2620.1	2643.0	2649.3
20°	2748.6	2682.4	2588.3	2541.2	2518.3	2497.9	2475.0	2477.6	2483.9	2506.8	2511.9
22.5°	2720.6	2654.4	2553.9	2489.0	2427.9	2366.8	2321.0	2314.7	2317.2	2336.3	2342.7
25°	2723.1	2653.2	2545.0	2433.0	2299.4	2201.4	2140.3	2130.2	2128.9	2142.9	2151.8
27.5°	2772.8	2702.8	2578.1	2375.8	2159.4	2014.4	1949.5	1941.8	1931.7	1935.5	1945.7
30°	2883.5	2818.6	2658.3	2317.2	2008.0	1831.1	1763.7	1756.0	1742.1	1735.7	1743.3
32.5°	3064.2	3010.7	2775.3	2261.2	1856.6	1674.6	1605.9	1589.4	1580.4	1572.8	1579.2
35°	3364.5	3341.6	2931.8	2200.2	1723.0	1553.7	1491.4	1465.9	1453.2	1467.2	1477.4
37.5°	3835.3	3848.0	3136.7	2104.7	1619.9	1473.6	1421.4	1392.1	1373.0	1384.5	1395.9
40°	4502.1	4511.0	3363.2	1969.8	1530.8	1426.5	1370.5	1343.8	1317.0	1296.7	1295.4
42.5°	5377.6	5287.2	3585.9	1823.5	1427.7	1397.2	1334.9	1301.8	1261.0	1205.1	1193.6
45°	6415.9	6099.1	3755.1	1655.5	1311.9	1361.6	1295.4	1249.6	1186.0	1124.9	1118.5
47.5°	7612.1	6970.7	3837.9	1481.2	1203.8	1309.4	1247.0	1174.5	1094.3	1063.8	1060.0
50°	9072.9	8005.3	3877.3	1311.9	1109.6	1240.7	1177.1	1091.8	1024.4	1018.0	1014.2
52.5°	10736.1	9249.8	3890.0	1173.2	1032.0	1151.6	1119.8	1037.1	983.6	988.7	988.7
55°	12476.9	10535.0	3717.0	1072.7	960.7	1060.0	1081.6	1015.5	970.9	991.3	998.9
57.5°	14075.1	11673.9	3172.3	995.1	893.3	990.0	1067.6	1035.8	1005.3	1088.0	1093.1
60°	15301.8	12347.1	2369.4	925.1	843.7	965.8	1104.5	1113.4	1121.1	1318.3	1345.0
62.5°	15558.8	12123.1	1628.8	870.4	820.8	986.2	1172.0	1173.2	1164.3	1301.8	1318.3
65°	14379.2	10706.8	1184.7	839.8	801.7	1023.1	1229.2	1202.5	1144.0	1248.3	1217.8
67.5°	11419.4	8066.4	986.2	816.9	773.7	1020.5	1290.3	1229.2	1132.5	1222.9	1173.2
70°	7412.3	4877.5	878.0	797.9	740.6	972.2	1325.9	1226.7	1099.4	1137.6	1079.1
72.5°	3616.4	2181.1	805.5	769.9	706.2	904.7	1324.7	1203.8	1065.1	1062.5	1030.7
75°	1415.0	998.9	739.3	727.9	647.7	828.4	1289.0	1170.7	1024.4	983.6	972.2
77.5°	828.4	712.6	655.3	665.5	577.7	752.0	1236.9	1113.4	968.4	920.0	907.3
80°	603.2	533.2	558.6	575.2	493.7	675.7	1166.9	1043.4	906.0	930.2	912.4
82.5°	386.8	343.6	453.0	469.6	411.0	598.1	1090.5	969.6	818.2	743.1	725.3
85°	197.2	217.6	337.2	357.6	316.9	491.2	997.6	871.7	719.0	618.4	628.6
87.5°	110.7	148.9	215.1	240.5	224.0	377.9	809.3	719.0	586.6	477.2	419.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)