

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: P194123

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194123  
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-05-LED-E1-T4W-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 26445 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

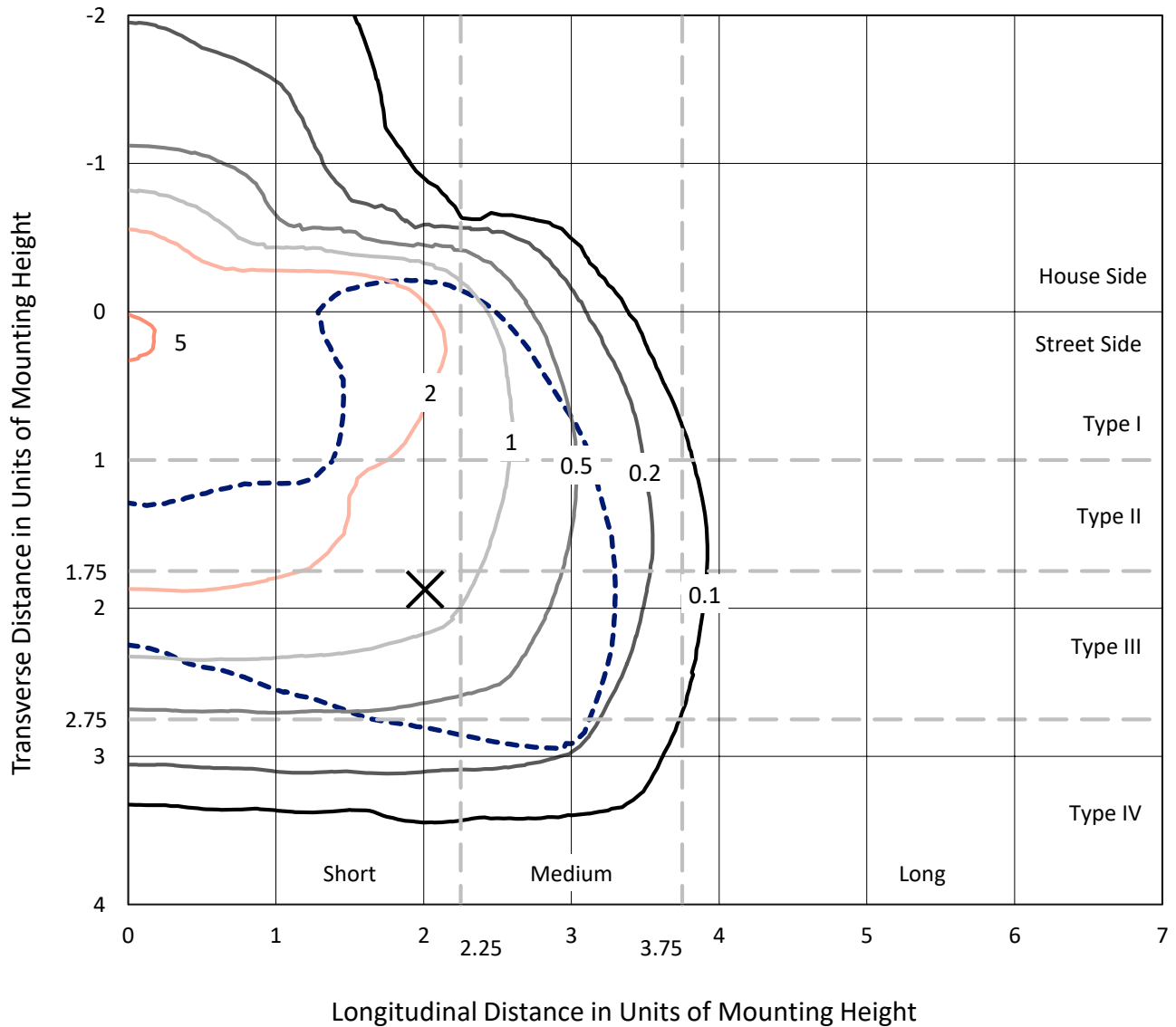


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

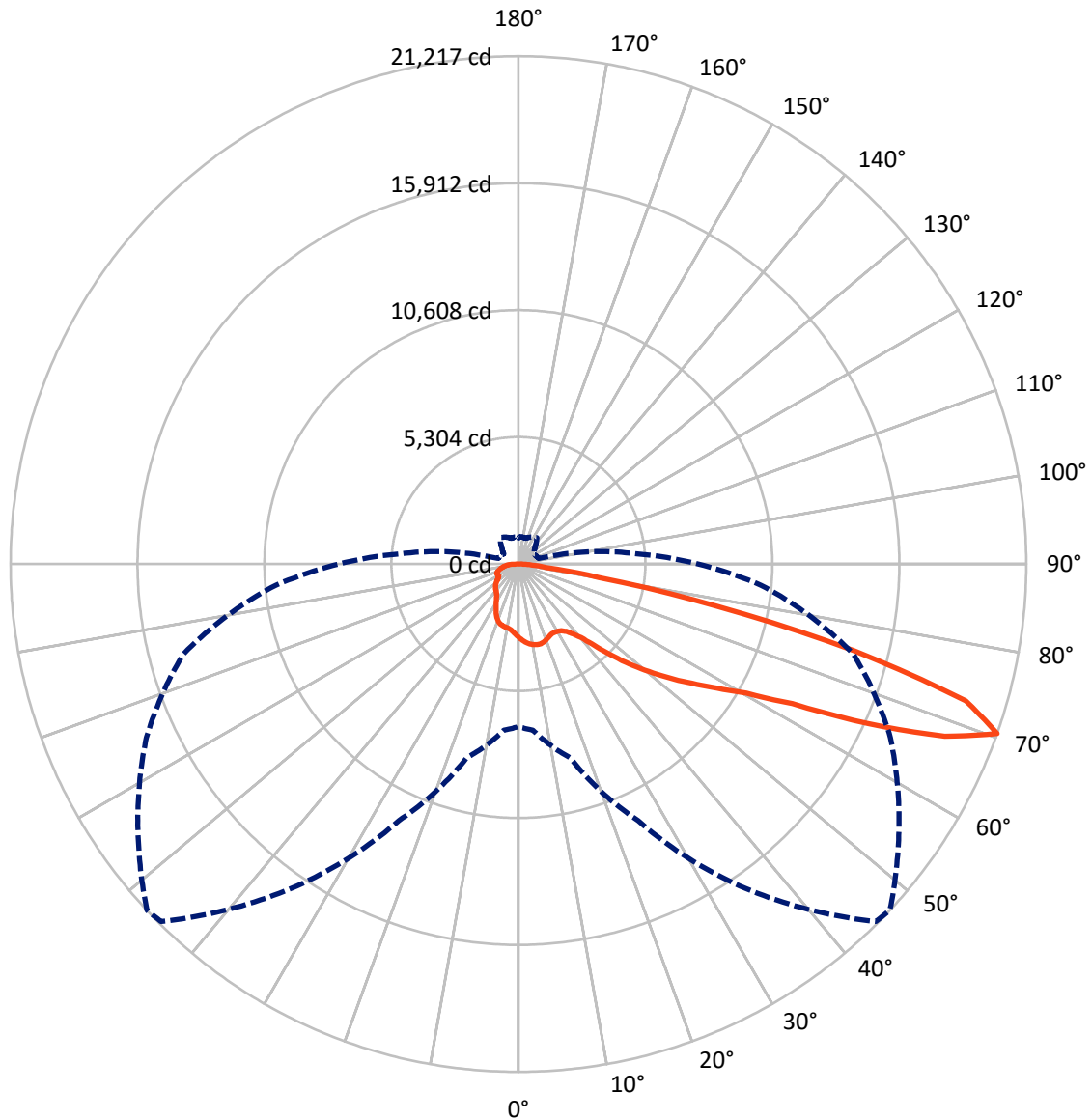


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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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	5516.9	0.0	5516.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	20928.1	0.0	20928.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	26445.0	0.0	26445.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.0	1.1
10°-20°	862.5	3.3
20°-30°	1273.7	4.8
30°-40°	1851.4	7.0
40°-50°	3331.8	12.6
50°-60°	5772.0	21.8
60°-70°	8238.3	31.2
70°-80°	4229.1	16.0
80°-90°	592.1	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°	26445.0	100.0
0°-180°	26445.0	100.0



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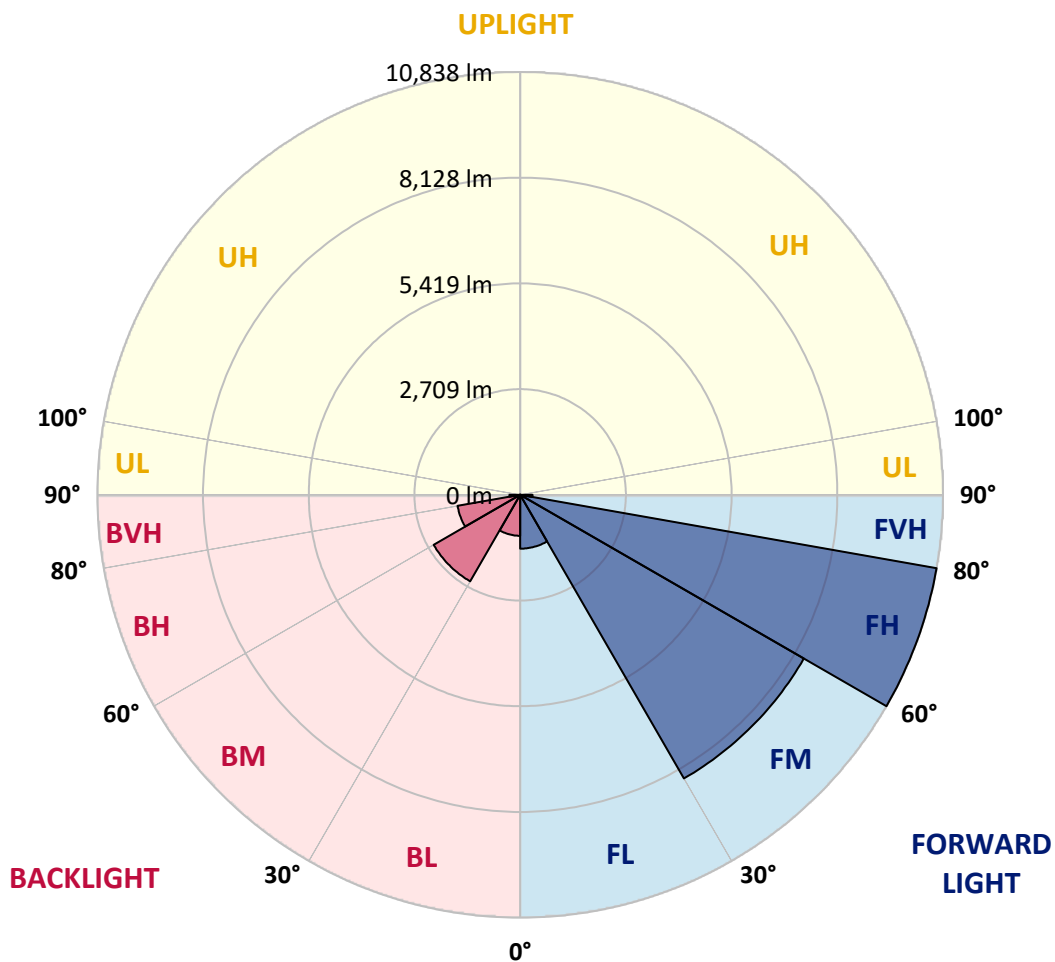
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.8	5.2			
FM	(30°-60°)	8394.4	31.7			
FH	(60°-80°)	10837.9	41.0			G4/12000
FVH	(80°-90°)	315.9	1.2			G3/500
BL	(0°-30°)	1050.5	4.0	B3/2500		
BM	(30°-60°)	2560.8	9.7	B3/5000		
BH	(60°-80°)	1629.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	276.1	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°	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4
2.5°	3248.6	3242.1	3239.6	3234.4	3228.0	3195.8	3189.4	3166.2	3134.1	3100.6	3065.9
5°	3462.1	3460.8	3446.7	3421.0	3379.8	3309.0	3292.3	3235.7	3159.8	3086.5	3013.1
7.5°	3650.0	3638.4	3611.4	3559.9	3487.9	3391.4	3368.2	3289.7	3185.5	3085.2	2986.1
10°	3787.6	3781.2	3722.0	3651.3	3557.3	3450.6	3423.5	3336.0	3221.5	3094.2	2970.7
12.5°	3866.1	3853.2	3785.1	3700.1	3588.2	3484.0	3457.0	3368.2	3239.6	3094.2	2948.8
15°	3861.0	3852.0	3783.8	3691.1	3577.9	3486.6	3462.1	3373.4	3235.7	3081.3	2920.5
17.5°	3758.0	3761.9	3704.0	3612.7	3520.0	3450.6	3428.7	3346.3	3210.0	3055.6	2887.0
20°	3577.9	3595.9	3557.3	3476.3	3424.8	3377.2	3363.1	3293.6	3170.1	3018.3	2851.0
22.5°	3397.8	3414.5	3399.1	3330.9	3323.2	3294.9	3287.2	3237.0	3135.3	2995.1	2829.1
25°	3265.3	3280.7	3278.2	3219.0	3242.1	3240.8	3234.4	3210.0	3127.6	2995.1	2833.0
27.5°	3229.3	3234.4	3229.3	3175.2	3207.4	3233.1	3228.0	3224.1	3150.8	3032.4	2881.9
30°	3352.8	3345.1	3305.2	3195.8	3225.4	3261.4	3256.3	3258.9	3220.3	3130.2	2991.2
32.5°	3845.5	3810.8	3684.7	3377.2	3298.7	3318.0	3320.6	3363.1	3369.5	3280.7	3161.1
35°	4582.7	4544.1	4380.7	3863.5	3526.5	3459.6	3459.6	3523.9	3562.5	3496.9	3424.8
37.5°	5363.7	5321.2	5233.7	4537.7	4005.1	3705.3	3698.9	3743.9	3799.2	3814.6	3832.7
40°	6251.4	6206.4	6230.8	5294.2	4672.8	4131.1	4039.8	4007.6	4156.9	4255.9	4400.0
42.5°	7222.7	7202.2	7211.2	6136.9	5433.1	4768.0	4638.0	4472.1	4652.2	4828.5	5130.8
45°	8122.0	8140.1	8131.1	7038.8	6279.7	5545.1	5407.4	5085.8	5262.0	5564.4	6057.1
47.5°	8909.4	8834.8	8950.6	8024.3	7227.9	6414.8	6245.0	5814.0	5992.8	6365.9	7199.6
50°	9865.3	9855.0	9685.2	9339.1	8374.2	7288.4	7065.8	6566.6	6844.5	7363.0	8639.2
52.5°	10870.1	10683.6	10527.9	10361.9	9590.0	8183.8	7911.1	7316.7	7845.4	8497.7	10394.1
55°	11076.0	10992.4	11185.3	11464.5	10762.1	9114.0	8796.2	8257.1	8972.5	9794.6	12417.9
57.5°	11516.0	11514.7	11913.5	12411.4	11968.9	10100.8	9780.4	9393.2	10239.7	11280.5	14566.4
60°	11813.2	11896.8	12637.9	13604.1	13153.8	11240.7	10946.0	10704.2	11680.7	12941.5	16568.3
62.5°	11968.9	12082.1	13093.3	14087.8	14828.9	13138.3	12843.7	12495.1	13587.3	14763.3	17739.1
65°	11321.7	11544.3	13022.6	14506.0	16295.6	16214.5	16082.0	15469.6	15971.3	16202.9	17315.8
67.5°	9530.8	9758.6	11480.0	14116.1	17342.8	19181.3	19209.6	18163.6	17438.0	16326.4	14558.7
70°	6790.5	6969.3	8393.5	11835.1	16545.1	21120.2	21216.6	19405.2	17146.0	14478.9	10171.5
72.5°	3224.1	3333.5	4681.8	7702.6	13129.3	19351.1	19537.7	17820.1	14579.3	10719.6	5548.9
75°	1184.9	1218.4	1582.5	3276.9	7615.1	14270.5	14490.5	12774.2	9664.6	5336.6	2113.8
77.5°	710.2	732.1	887.7	1383.1	2995.1	8156.8	8482.3	6947.4	4223.8	1986.4	1039.5
80°	496.6	512.1	636.8	860.7	1415.2	3108.3	3397.8	2835.6	1682.8	1257.0	756.5
82.5°	335.8	343.5	447.7	581.5	940.5	1110.3	1197.8	1260.8	1134.7	935.3	479.9
85°	220.0	227.7	303.6	383.4	598.2	573.8	586.7	742.3	828.5	635.6	266.3
87.5°	126.1	131.2	182.7	204.6	293.3	243.2	245.7	391.1	530.1	428.4	162.1
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°	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4
2.5°	3056.9	3040.1	3002.8	2979.7	2957.8	2952.7	2943.6	2942.4	2941.1	2941.1	2937.2
5°	2988.7	2960.4	2902.5	2870.3	2843.3	2840.7	2839.4	2845.9	2848.4	2851.0	2847.2
7.5°	2944.9	2906.3	2834.3	2788.0	2755.8	2748.1	2761.0	2790.5	2809.8	2817.6	2813.7
10°	2917.9	2870.3	2786.7	2736.5	2709.5	2705.6	2722.4	2757.1	2797.0	2812.4	2811.1
12.5°	2887.0	2833.0	2744.2	2691.5	2676.0	2683.8	2705.6	2737.8	2779.0	2803.4	2804.7
15°	2856.2	2793.1	2701.8	2655.5	2649.0	2659.3	2679.9	2704.3	2736.5	2761.0	2763.5
17.5°	2818.9	2753.2	2661.9	2614.3	2609.1	2614.3	2615.6	2628.4	2649.0	2672.2	2678.6
20°	2779.0	2712.1	2616.9	2569.3	2546.1	2525.5	2502.4	2504.9	2511.4	2534.5	2539.7
22.5°	2750.7	2683.8	2582.1	2516.5	2454.8	2393.0	2346.7	2340.3	2342.8	2362.1	2368.6
25°	2753.2	2682.5	2573.1	2459.9	2324.8	2225.7	2164.0	2153.7	2152.4	2166.6	2175.6
27.5°	2803.4	2732.7	2606.6	2402.0	2183.3	2036.6	1971.0	1963.3	1953.0	1956.9	1967.1
30°	2915.3	2849.7	2687.6	2342.8	2030.2	1851.4	1783.2	1775.5	1761.3	1754.9	1762.6
32.5°	3098.0	3044.0	2806.0	2286.2	1877.1	1693.1	1623.6	1606.9	1597.9	1590.2	1596.6
35°	3401.7	3378.5	2964.2	2224.5	1742.0	1570.9	1507.8	1482.1	1469.3	1483.4	1493.7
37.5°	3877.7	3890.6	3171.4	2128.0	1637.8	1489.8	1437.1	1407.5	1388.2	1399.8	1411.4
40°	4551.8	4560.9	3400.4	1991.6	1547.7	1442.2	1385.6	1358.6	1331.6	1311.0	1309.7
42.5°	5437.0	5345.7	3625.5	1843.6	1443.5	1412.6	1349.6	1316.1	1275.0	1218.4	1206.8
45°	6486.8	6166.5	3796.6	1673.8	1326.4	1376.6	1309.7	1263.4	1199.1	1137.3	1130.9
47.5°	7696.2	7047.8	3880.3	1497.6	1217.1	1323.9	1260.8	1187.5	1106.4	1075.6	1071.7
50°	9173.2	8093.7	3920.1	1326.4	1121.9	1254.4	1190.1	1103.9	1035.7	1029.2	1025.4
52.5°	10854.7	9352.0	3933.0	1186.2	1043.4	1164.3	1132.2	1048.5	994.5	999.7	999.7
55°	12614.7	10651.4	3758.0	1084.6	971.4	1071.7	1093.6	1026.7	981.6	1002.2	1009.9
57.5°	14230.6	11802.9	3207.4	1006.1	903.2	1000.9	1079.4	1047.3	1016.4	1100.0	1105.2
60°	15470.9	12483.5	2395.6	935.3	853.0	976.5	1116.7	1125.7	1133.5	1332.9	1359.9
62.5°	15730.8	12257.0	1646.8	880.0	829.8	997.1	1184.9	1186.2	1177.2	1316.1	1332.9
65°	14538.1	10825.1	1197.8	849.1	810.5	1034.4	1242.8	1215.8	1156.6	1262.1	1231.2
67.5°	11545.6	8155.5	997.1	826.0	782.2	1031.8	1304.6	1242.8	1145.0	1236.4	1186.2
70°	7494.2	4931.4	887.7	806.7	748.8	982.9	1340.6	1240.2	1111.6	1150.2	1091.0
72.5°	3656.4	2205.2	814.4	778.4	714.0	914.7	1339.3	1217.1	1076.8	1074.3	1042.1
75°	1430.7	1009.9	747.5	735.9	654.9	837.5	1303.3	1183.6	1035.7	994.5	982.9
77.5°	837.5	720.5	662.6	672.9	584.1	760.4	1250.5	1125.7	979.1	930.2	917.3
80°	609.8	539.1	564.8	581.5	499.2	683.2	1179.8	1055.0	916.0	940.5	922.5
82.5°	391.1	347.4	458.0	474.7	415.6	604.7	1102.6	980.4	827.3	751.4	733.3
85°	199.4	220.0	340.9	361.5	320.4	496.6	1008.7	881.3	726.9	625.3	635.6
87.5°	111.9	150.5	217.4	243.2	226.4	382.1	818.3	726.9	593.1	482.5	424.6
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)