

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: P194096

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194096  
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-08-LED-E1-T4W-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25469 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 257  
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

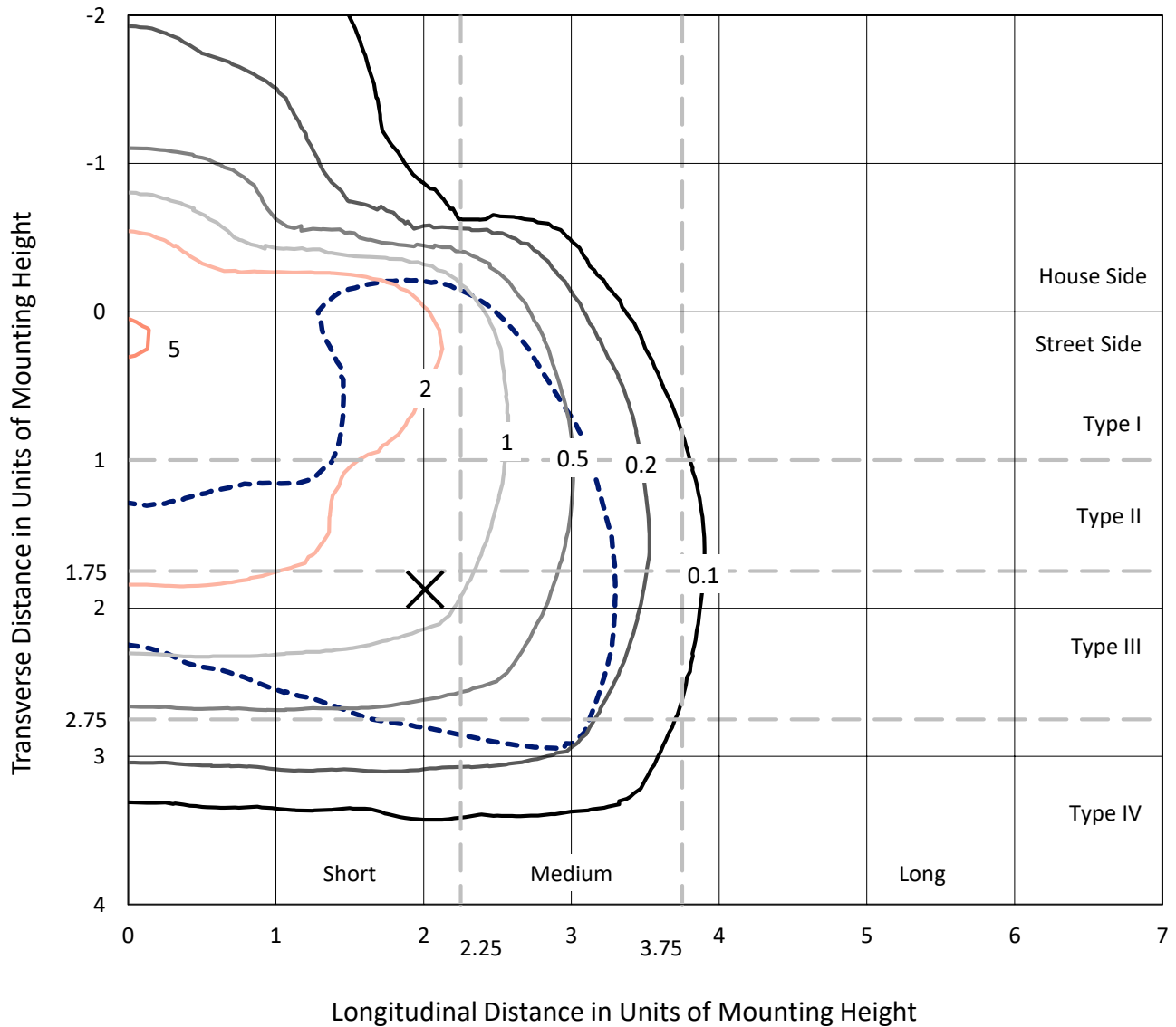


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

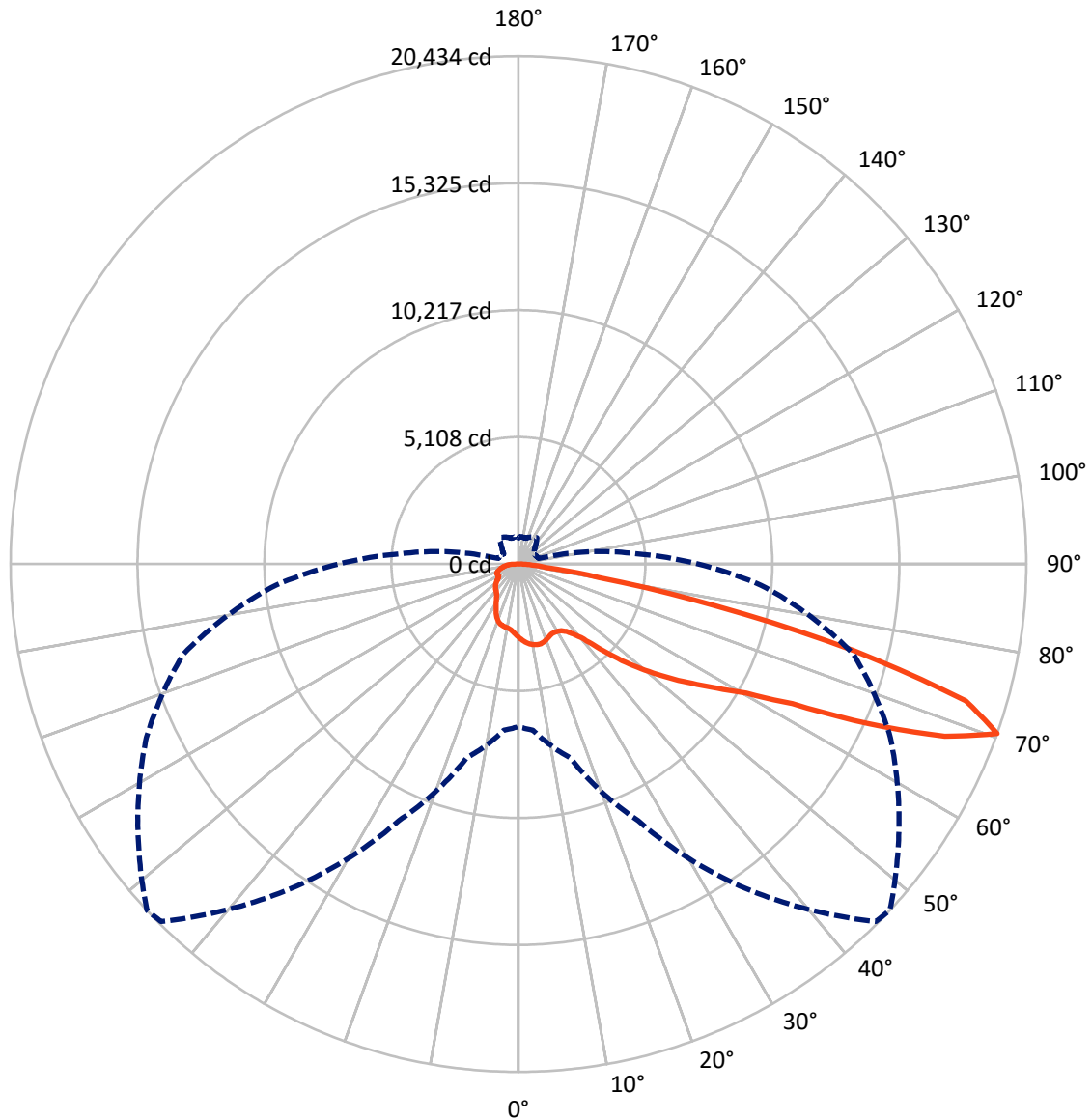


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Semi-Cutoff

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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	5313.3	0.0	5313.3
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	20155.7	0.0	20155.7
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	25469.0	0.0	25469.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.2	1.1
10°-20°	830.7	3.3
20°-30°	1226.7	4.8
30°-40°	1783.0	7.0
40°-50°	3208.8	12.6
50°-60°	5559.0	21.8
60°-70°	7934.3	31.2
70°-80°	4073.0	16.0
80°-90°	570.2	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°	25469.0	100.0
0°-180°	25469.0	100.0

**Coefficient of Utilization**



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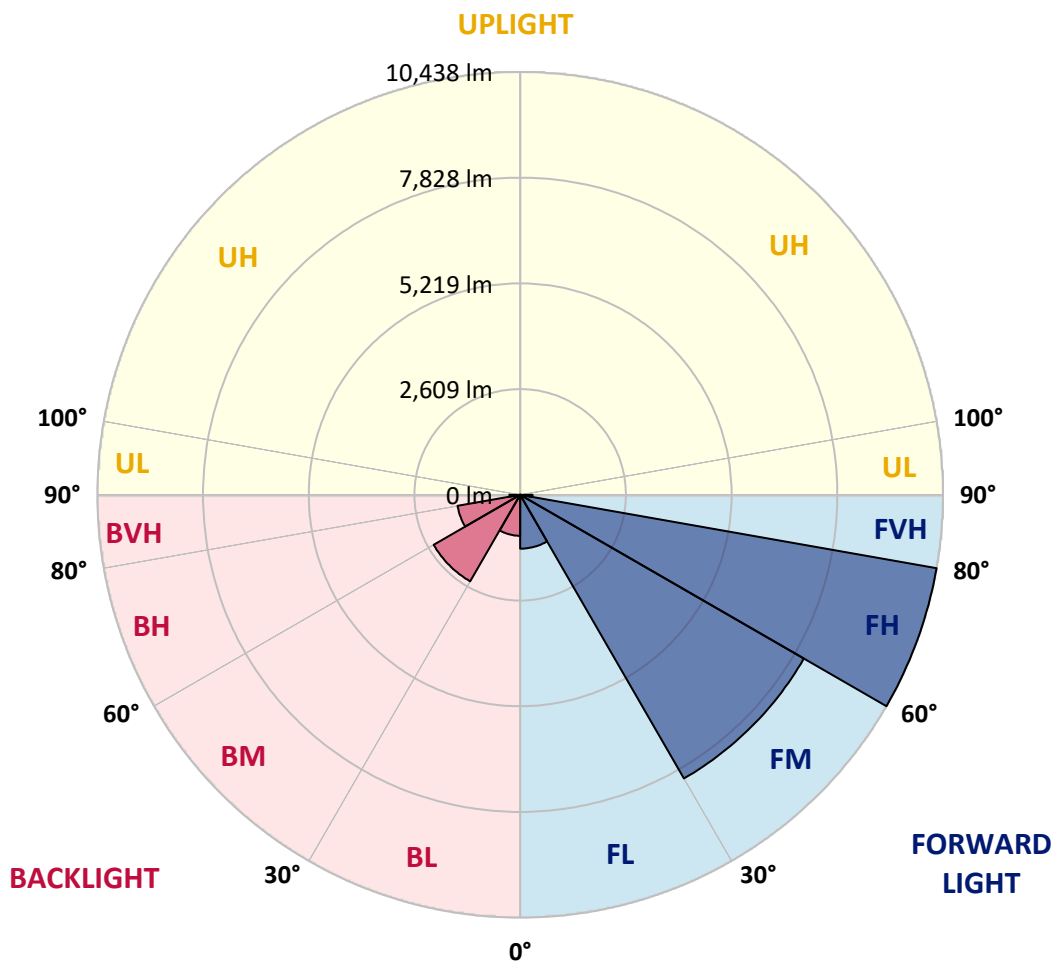
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.9	5.2			
FM	(30°-60°)	8084.6	31.7			
FH	(60°-80°)	10437.9	41.0			G4/12000
FVH	(80°-90°)	304.3	1.2			G3/500
BL	(0°-30°)	1011.7	4.0	B3/2500		
BM	(30°-60°)	2466.3	9.7	B2/2500		
BH	(60°-80°)	1569.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	266.0	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°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	3128.7	3122.5	3120.0	3115.0	3108.8	3077.9	3071.7	3049.4	3018.4	2986.2	2952.7
5°	3334.4	3333.1	3319.5	3294.7	3255.1	3186.9	3170.8	3116.3	3043.2	2972.5	2901.9
7.5°	3515.3	3504.1	3478.1	3428.5	3359.1	3266.2	3243.9	3168.3	3068.0	2971.3	2875.9
10°	3647.8	3641.6	3584.6	3516.5	3426.0	3323.2	3297.2	3212.9	3102.6	2980.0	2861.0
12.5°	3723.4	3711.0	3645.4	3563.6	3455.8	3355.4	3329.4	3243.9	3120.0	2980.0	2840.0
15°	3718.5	3709.8	3644.1	3554.9	3445.9	3357.9	3334.4	3248.9	3116.3	2967.6	2812.7
17.5°	3619.3	3623.1	3567.3	3479.3	3390.1	3323.2	3302.1	3222.8	3091.5	2942.8	2780.5
20°	3445.9	3463.2	3426.0	3348.0	3298.4	3252.6	3238.9	3172.0	3053.1	2906.9	2745.8
22.5°	3272.4	3288.5	3273.6	3208.0	3200.5	3173.3	3165.8	3117.5	3019.6	2884.6	2724.7
25°	3144.8	3159.6	3157.2	3100.2	3122.5	3121.2	3115.0	3091.5	3012.2	2884.6	2728.4
27.5°	3110.1	3115.0	3110.1	3058.0	3089.0	3113.8	3108.8	3105.1	3034.5	2920.5	2775.5
30°	3229.0	3221.6	3183.2	3077.9	3106.4	3141.1	3136.1	3138.6	3101.4	3014.7	2880.9
32.5°	3703.6	3670.1	3548.7	3252.6	3177.0	3195.6	3198.1	3238.9	3245.1	3159.6	3044.4
35°	4413.6	4376.4	4219.1	3720.9	3396.3	3331.9	3331.9	3393.8	3431.0	3367.8	3298.4
37.5°	5165.7	5124.8	5040.6	4370.2	3857.2	3568.5	3562.3	3605.7	3659.0	3673.9	3691.2
40°	6020.7	5977.3	6000.8	5098.8	4500.3	3978.7	3890.7	3859.7	4003.5	4098.9	4237.6
42.5°	6956.2	6936.3	6945.0	5910.4	5232.6	4592.0	4466.9	4307.0	4480.5	4650.3	4941.4
45°	7822.3	7839.6	7831.0	6779.0	6047.9	5340.4	5207.8	4898.1	5067.8	5359.0	5833.6
47.5°	8580.6	8508.7	8620.3	7728.1	6961.1	6178.0	6014.5	5599.4	5771.6	6130.9	6933.9
50°	9501.2	9491.3	9327.8	8994.5	8065.1	7019.4	6805.0	6324.2	6591.9	7091.2	8320.4
52.5°	10469.0	10289.3	10139.4	9979.5	9236.1	7881.8	7619.1	7046.6	7555.9	8184.1	10010.5
55°	10667.2	10586.7	10772.5	11041.4	10364.9	8777.6	8471.6	7952.4	8641.3	9433.1	11959.6
57.5°	11091.0	11089.7	11473.8	11953.4	11527.1	9728.0	9419.5	9046.5	9861.8	10864.2	14028.8
60°	11377.2	11457.7	12171.4	13102.0	12668.3	10825.8	10542.1	10309.1	11249.6	12463.9	15956.8
62.5°	11527.1	11636.2	12610.1	13567.9	14281.6	12653.4	12369.7	12033.9	13085.9	14218.4	17084.4
65°	10903.9	11118.2	12541.9	13970.6	15694.1	15616.1	15488.5	14898.7	15381.9	15604.9	16676.7
67.5°	9179.1	9398.4	11056.3	13595.1	16702.7	18473.4	18500.6	17493.3	16794.4	15723.9	14021.4
70°	6539.8	6712.1	8083.7	11398.3	15934.5	20340.7	20433.6	18689.0	16513.2	13944.6	9796.1
72.5°	3105.1	3210.4	4509.0	7418.3	12644.8	18636.9	18816.6	17162.4	14041.2	10324.0	5344.1
75°	1141.2	1173.4	1524.1	3155.9	7334.1	13743.8	13955.7	12302.8	9307.9	5139.7	2035.8
77.5°	684.0	705.0	855.0	1332.0	2884.6	7855.7	8169.2	6691.0	4067.9	1913.1	1001.2
80°	478.3	493.2	613.3	828.9	1363.0	2993.6	3272.4	2730.9	1620.7	1210.6	728.6
82.5°	323.4	330.8	431.2	560.1	905.8	1069.3	1153.6	1214.3	1092.9	900.8	462.2
85°	211.9	219.3	292.4	369.2	576.2	552.6	565.0	714.9	798.0	612.1	256.5
87.5°	121.4	126.4	175.9	197.0	282.5	234.2	236.7	376.7	510.5	412.6	156.1
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°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2944.0	2927.9	2892.0	2869.7	2848.6	2843.7	2835.0	2833.8	2832.5	2832.5	2828.8
5°	2878.4	2851.1	2795.4	2764.4	2738.4	2735.9	2734.6	2740.8	2743.3	2745.8	2742.1
7.5°	2836.2	2799.1	2729.7	2685.1	2654.1	2646.7	2659.1	2687.6	2706.1	2713.6	2709.9
10°	2810.2	2764.4	2683.8	2635.5	2609.5	2605.8	2621.9	2655.3	2693.8	2708.6	2707.4
12.5°	2780.5	2728.4	2642.9	2592.1	2577.3	2584.7	2605.8	2636.8	2676.4	2699.9	2701.2
15°	2750.7	2690.0	2602.1	2557.5	2551.3	2561.2	2581.0	2604.5	2635.5	2659.1	2661.5
17.5°	2714.8	2651.6	2563.6	2517.8	2512.8	2517.8	2519.0	2531.4	2551.3	2573.6	2579.8
20°	2676.4	2612.0	2520.3	2474.4	2452.1	2432.3	2410.0	2412.5	2418.7	2441.0	2445.9
22.5°	2649.1	2584.7	2486.8	2423.6	2364.2	2304.7	2260.1	2253.9	2256.4	2274.9	2281.1
25°	2651.6	2583.5	2478.2	2369.1	2239.0	2143.6	2084.1	2074.2	2073.0	2086.6	2095.3
27.5°	2699.9	2631.8	2510.4	2313.4	2102.7	1961.5	1898.3	1890.8	1880.9	1884.6	1894.5
30°	2807.7	2744.6	2588.4	2256.4	1955.3	1783.0	1717.4	1709.9	1696.3	1690.1	1697.5
32.5°	2983.7	2931.7	2702.4	2201.8	1807.8	1630.6	1563.7	1547.6	1538.9	1531.5	1537.7
35°	3276.1	3253.8	2854.8	2142.4	1677.7	1512.9	1452.2	1427.4	1415.0	1428.7	1438.6
37.5°	3734.6	3747.0	3054.3	2049.4	1577.3	1434.9	1384.0	1355.5	1337.0	1348.1	1359.3
40°	4383.9	4392.5	3274.9	1918.1	1490.6	1389.0	1334.5	1308.5	1282.4	1262.6	1261.4
42.5°	5236.3	5148.4	3491.7	1775.6	1390.2	1360.5	1299.8	1267.6	1227.9	1173.4	1162.3
45°	6247.4	5938.9	3656.5	1612.0	1277.5	1325.8	1261.4	1216.8	1154.8	1095.3	1089.1
47.5°	7412.2	6787.7	3737.1	1442.3	1172.2	1275.0	1214.3	1143.7	1065.6	1035.9	1032.2
50°	8834.6	7795.0	3775.5	1277.5	1080.5	1208.1	1146.1	1063.1	997.5	991.3	987.5
52.5°	10454.1	9006.8	3787.9	1142.4	1004.9	1121.4	1090.4	1009.8	957.8	962.8	962.8
55°	12149.1	10258.3	3619.3	1044.5	935.5	1032.2	1053.2	988.8	945.4	965.2	972.7
57.5°	13705.4	11367.3	3089.0	969.0	869.8	964.0	1039.6	1008.6	978.9	1059.4	1064.4
60°	14899.9	12022.8	2307.2	900.8	821.5	940.5	1075.5	1084.2	1091.6	1283.7	1309.7
62.5°	15150.2	11804.7	1586.0	847.5	799.2	960.3	1141.2	1142.4	1133.8	1267.6	1283.7
65°	14001.6	10425.6	1153.6	817.8	780.6	996.2	1196.9	1170.9	1113.9	1215.5	1185.8
67.5°	11119.5	7854.5	960.3	795.5	753.4	993.7	1256.4	1196.9	1102.8	1190.8	1142.4
70°	7217.6	4749.4	855.0	776.9	721.1	946.7	1291.1	1194.5	1070.6	1107.7	1050.7
72.5°	3521.5	2123.8	784.3	749.6	687.7	881.0	1289.9	1172.2	1037.1	1034.6	1003.7
75°	1377.9	972.7	719.9	708.8	630.7	806.6	1255.2	1140.0	997.5	957.8	946.7
77.5°	806.6	693.9	638.1	648.0	562.5	732.3	1204.4	1084.2	942.9	895.9	883.5
80°	587.3	519.2	544.0	560.1	480.8	657.9	1136.2	1016.0	882.2	905.8	888.4
82.5°	376.7	334.6	441.1	457.2	400.2	582.4	1061.9	944.2	796.7	723.6	706.3
85°	192.1	211.9	328.4	348.2	308.5	478.3	971.4	848.8	700.1	602.2	612.1
87.5°	107.8	145.0	209.4	234.2	218.1	368.0	788.1	700.1	571.2	464.7	408.9
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)