

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: P269439

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269439  
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-06-LED-E1-T4W-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24814.8 lumens  
Efficiency: N/A  
Efficacy: 99.7 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): 249  
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

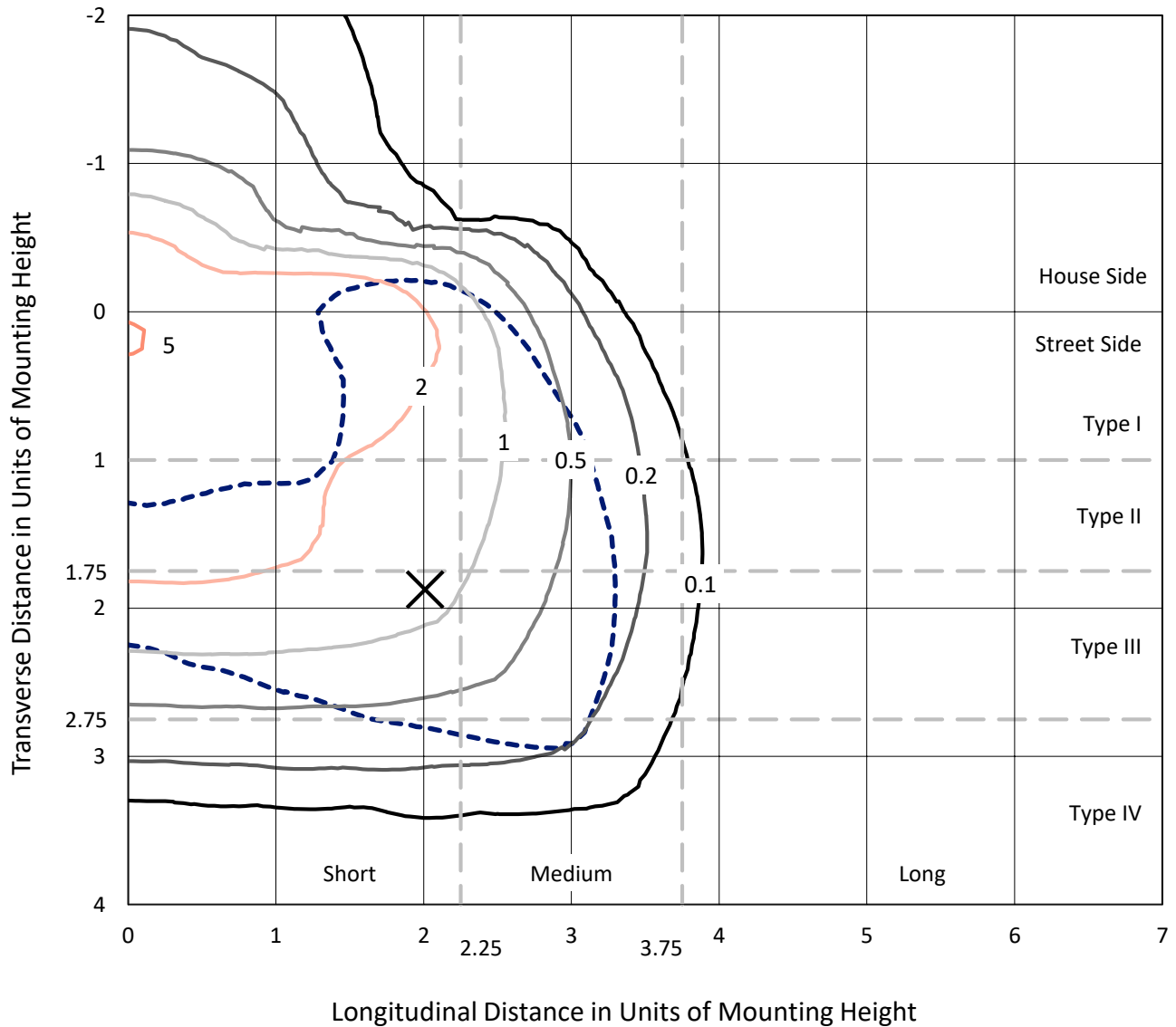


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

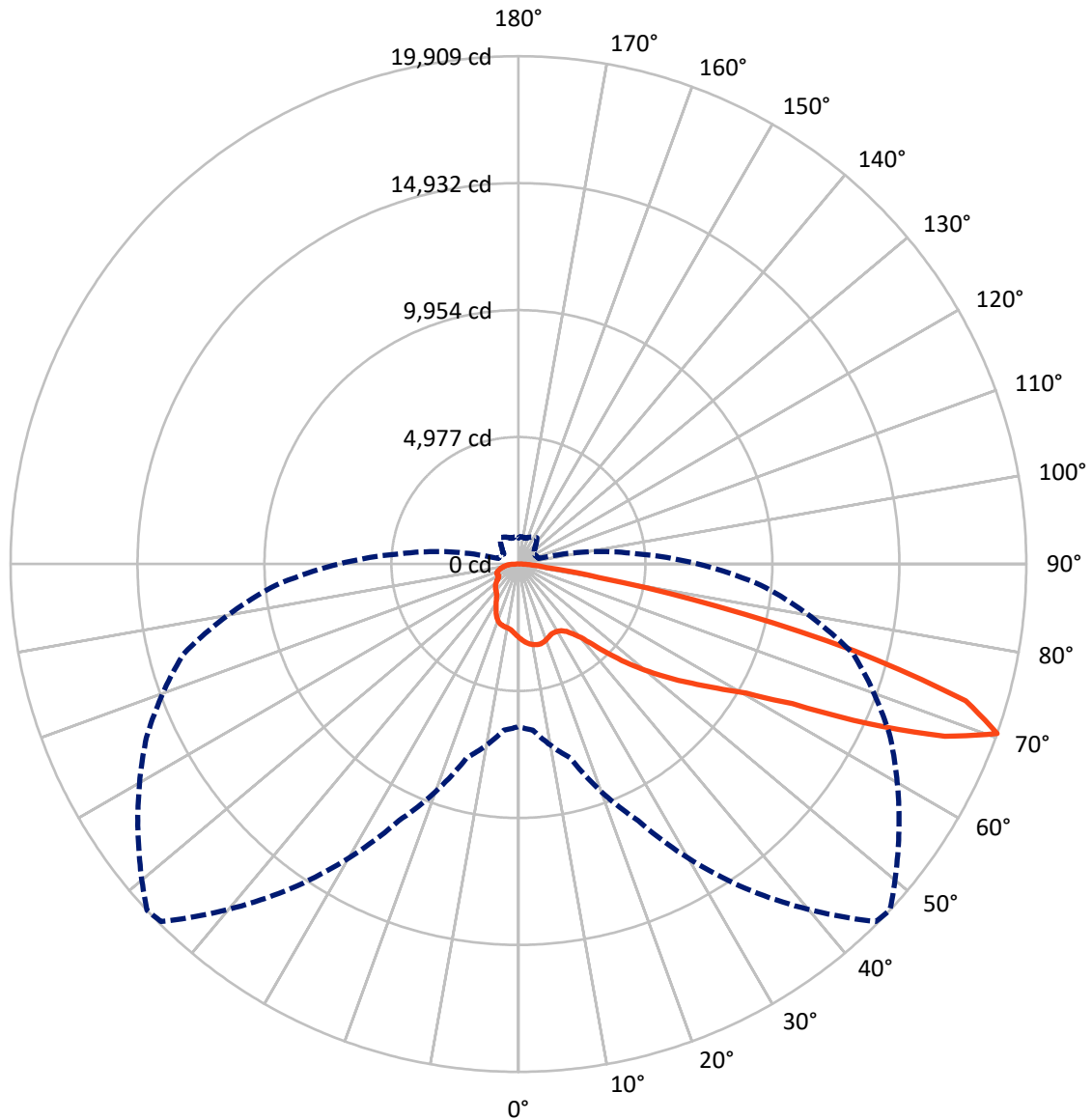


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

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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	5176.9	0.0	5176.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	19637.9	0.0	19637.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	24814.8	0.0	24814.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.9	1.1
10°-20°	809.4	3.3
20°-30°	1195.2	4.8
30°-40°	1737.2	7.0
40°-50°	3126.4	12.6
50°-60°	5416.2	21.8
60°-70°	7730.5	31.2
70°-80°	3968.4	16.0
80°-90°	555.6	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°	24814.8	100.0
0°-180°	24814.8	100.0



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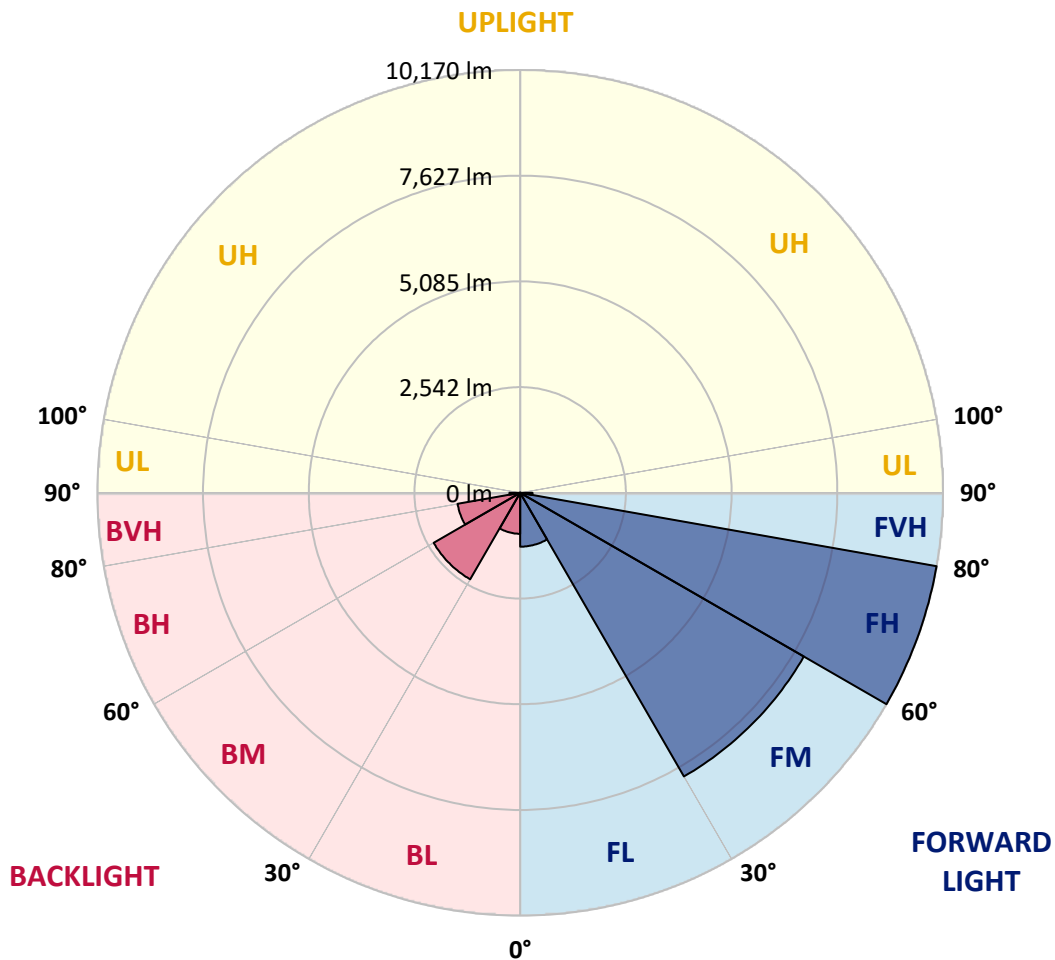
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.8	5.2			
FM	(30°-60°)	7876.9	31.7			
FH	(60°-80°)	10169.8	41.0			G4/12000
FVH	(80°-90°)	296.5	1.2			G3/500
BL	(0°-30°)	985.7	4.0	B2/1000		
BM	(30°-60°)	2402.9	9.7	B2/2500		
BH	(60°-80°)	1529.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	259.1	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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	3048.3	3042.3	3039.9	3035.1	3028.9	2998.8	2992.8	2971.1	2940.8	2909.5	2876.9
5°	3248.7	3247.6	3234.2	3210.1	3171.5	3105.0	3089.4	3036.2	2964.9	2896.1	2827.3
7.5°	3425.0	3414.1	3388.8	3340.4	3272.9	3182.3	3160.5	3086.9	2989.1	2895.0	2802.1
10°	3554.1	3548.1	3492.6	3426.1	3338.0	3237.9	3212.5	3130.5	3022.9	2903.4	2787.5
12.5°	3627.7	3615.7	3551.7	3472.0	3366.9	3269.2	3243.9	3160.5	3039.9	2903.4	2767.0
15°	3623.0	3614.5	3550.6	3463.5	3357.3	3271.6	3248.7	3165.4	3036.2	2891.4	2740.5
17.5°	3526.3	3530.0	3475.6	3389.9	3303.1	3237.9	3217.3	3140.0	3012.0	2867.2	2709.1
20°	3357.3	3374.3	3338.0	3261.9	3213.6	3169.0	3155.7	3090.6	2974.6	2832.1	2675.2
22.5°	3188.4	3204.1	3189.5	3125.6	3118.3	3091.7	3084.5	3037.3	2942.0	2810.4	2654.8
25°	3063.9	3078.5	3076.1	3020.6	3042.3	3041.0	3035.1	3012.0	2934.9	2810.4	2658.4
27.5°	3030.3	3035.1	3030.3	2979.5	3009.7	3033.8	3028.9	3025.3	2956.5	2845.6	2704.3
30°	3146.1	3138.9	3101.4	2998.8	3026.6	3060.3	3055.6	3058.0	3021.8	2937.3	2806.8
32.5°	3608.5	3575.9	3457.5	3169.0	3095.4	3113.4	3116.0	3155.7	3161.8	3078.5	2966.3
35°	4300.2	4264.1	4110.6	3625.4	3309.0	3246.2	3246.2	3306.7	3342.9	3281.2	3213.6
37.5°	5033.1	4993.1	4911.2	4258.0	3758.1	3476.9	3470.8	3513.1	3565.1	3579.4	3596.5
40°	5866.0	5823.8	5846.7	4967.8	4384.7	3876.5	3790.8	3760.6	3900.6	3993.5	4128.8
42.5°	6777.5	6758.2	6766.7	5758.6	5098.2	4474.1	4352.1	4196.4	4365.5	4530.8	4814.5
45°	7621.4	7638.3	7629.8	6604.9	5892.6	5203.3	5074.0	4772.2	4937.7	5221.4	5683.8
47.5°	8360.2	8290.2	8398.9	7529.7	6782.4	6019.4	5860.1	5455.5	5623.4	5973.5	6755.8
50°	9257.2	9247.5	9088.2	8763.4	7858.0	6839.1	6630.2	6161.8	6422.5	6909.0	8106.7
52.5°	10200.1	10024.9	9878.9	9723.2	8998.9	7679.3	7423.4	6865.7	7361.8	7973.9	9753.3
55°	10393.2	10314.8	10495.8	10757.8	10098.7	8552.1	8253.9	7748.2	8419.4	9190.7	11652.4
57.5°	10806.2	10804.9	11179.1	11646.3	11231.0	9478.0	9177.5	8814.1	9608.5	10585.2	13668.5
60°	11084.9	11163.4	11858.9	12765.5	12342.9	10547.7	10271.3	10044.3	10960.6	12143.6	15547.0
62.5°	11231.0	11337.2	12286.2	13219.4	13914.7	12328.3	12052.0	11724.8	12749.7	13853.2	16645.6
65°	10623.7	10832.7	12219.7	13611.7	15290.9	15215.0	15090.5	14515.9	14986.9	15204.2	16248.4
67.5°	8943.3	9157.1	10772.3	13246.0	16273.8	17998.9	18025.4	17043.9	16363.0	15320.0	13661.2
70°	6371.9	6539.8	7876.1	11105.4	15525.2	19818.1	19908.7	18209.0	16089.1	13586.3	9544.5
72.5°	3025.3	3128.0	4393.3	7227.9	12320.0	18158.2	18333.2	16721.6	13680.6	10058.9	5206.8
75°	1111.9	1143.3	1484.9	3074.9	7145.7	13390.9	13597.3	11986.8	9068.8	5007.7	1983.5
77.5°	666.5	686.9	833.0	1297.8	2810.4	7654.0	7959.4	6519.1	3963.4	1864.1	975.5
80°	466.0	480.6	597.6	807.7	1328.0	2916.6	3188.4	2660.8	1579.1	1179.5	709.9
82.5°	315.0	322.3	420.0	545.7	882.5	1041.9	1124.0	1183.1	1064.9	877.6	450.3
85°	206.4	213.6	284.9	359.7	561.4	538.4	550.5	696.5	777.5	596.4	249.9
87.5°	118.2	123.2	171.4	192.0	275.2	228.2	230.5	367.0	497.4	402.0	152.2
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°	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2	2879.2
2.5°	2868.4	2852.7	2817.8	2796.0	2775.5	2770.6	2762.2	2761.0	2759.8	2759.8	2756.2
5°	2804.5	2777.9	2723.5	2693.4	2668.1	2665.6	2664.5	2670.4	2672.8	2675.2	2671.6
7.5°	2763.4	2727.2	2659.6	2616.1	2586.0	2578.7	2590.7	2618.5	2636.6	2643.9	2640.3
10°	2738.0	2693.4	2614.8	2567.8	2542.5	2538.8	2554.5	2587.1	2624.6	2639.0	2637.9
12.5°	2709.1	2658.4	2575.0	2525.6	2511.1	2518.3	2538.8	2569.1	2607.7	2630.5	2631.9
15°	2680.2	2621.0	2535.2	2491.8	2485.7	2495.4	2514.6	2537.6	2567.8	2590.7	2593.1
17.5°	2645.1	2583.5	2497.7	2453.1	2448.3	2453.1	2454.3	2466.3	2485.7	2507.4	2513.5
20°	2607.7	2544.9	2455.5	2411.0	2389.1	2369.8	2348.1	2350.5	2356.6	2378.4	2383.2
22.5°	2581.1	2518.3	2423.0	2361.4	2303.4	2245.6	2202.0	2195.9	2198.4	2216.5	2222.5
25°	2583.5	2517.1	2414.6	2308.3	2181.5	2088.5	2030.6	2020.9	2019.7	2033.0	2041.5
27.5°	2630.5	2564.2	2445.8	2253.9	2048.8	1911.1	1849.5	1842.2	1832.6	1836.2	1845.8
30°	2735.6	2674.1	2521.9	2198.4	1905.0	1737.2	1673.3	1665.9	1652.7	1646.8	1653.9
32.5°	2907.1	2856.3	2633.0	2145.3	1761.3	1588.7	1523.5	1507.8	1499.5	1492.2	1498.3
35°	3191.9	3170.3	2781.5	2087.3	1634.6	1474.1	1414.9	1390.8	1378.7	1392.0	1401.6
37.5°	3638.7	3650.7	2975.8	1996.8	1536.8	1398.0	1348.4	1320.7	1302.6	1313.5	1324.3
40°	4271.3	4279.6	3190.8	1868.8	1452.3	1353.3	1300.1	1274.9	1249.5	1230.1	1229.1
42.5°	5101.8	5016.1	3402.1	1730.0	1354.6	1325.5	1266.4	1235.0	1196.5	1143.3	1132.5
45°	6086.9	5786.3	3562.6	1570.6	1244.7	1291.8	1229.1	1185.6	1125.1	1067.1	1061.2
47.5°	7221.7	6613.3	3641.1	1405.3	1142.0	1242.3	1183.1	1114.3	1038.3	1009.2	1005.7
50°	8607.6	7594.8	3678.5	1244.7	1052.8	1177.0	1116.8	1035.8	971.8	965.8	962.2
52.5°	10185.5	8775.5	3690.5	1113.1	979.2	1092.6	1062.3	984.0	933.2	938.0	938.0
55°	11837.1	9994.8	3526.3	1017.7	911.5	1005.7	1026.1	963.4	921.1	940.4	947.7
57.5°	13353.3	11075.4	3009.7	944.1	847.6	939.3	1012.8	982.7	953.7	1032.2	1037.1
60°	14517.1	11714.0	2247.9	877.6	800.4	916.4	1048.0	1056.3	1063.7	1250.7	1276.0
62.5°	14760.9	11501.4	1545.3	825.7	778.7	935.7	1111.9	1113.1	1104.6	1235.0	1250.7
65°	13641.9	10157.8	1124.0	796.7	760.5	970.6	1166.2	1140.8	1085.3	1184.3	1155.3
67.5°	10833.9	7652.8	935.7	775.1	734.0	968.3	1224.1	1166.2	1074.5	1160.3	1113.1
70°	7032.2	4627.3	833.0	756.9	702.7	922.3	1257.9	1163.8	1043.0	1079.3	1023.8
72.5°	3430.9	2069.2	764.2	730.4	670.0	858.3	1256.8	1142.0	1010.5	1008.1	977.8
75°	1342.4	947.7	701.3	690.5	614.5	785.8	1223.0	1110.7	971.8	933.2	922.3
77.5°	785.8	676.1	621.7	631.4	548.1	713.4	1173.5	1056.3	918.7	872.9	860.8
80°	572.2	505.8	530.0	545.7	468.5	641.0	1107.0	989.9	859.6	882.5	865.5
82.5°	367.0	325.9	429.7	445.5	390.0	567.4	1034.6	920.0	776.2	705.0	688.1
85°	187.1	206.4	319.9	339.2	300.7	466.0	946.5	827.0	682.2	586.8	596.4
87.5°	105.0	141.3	204.1	228.2	212.4	358.6	767.8	682.2	556.5	452.7	398.4
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)