

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: P383129

Luminaire Tested: **GLEON-SA4C-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26393.5 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

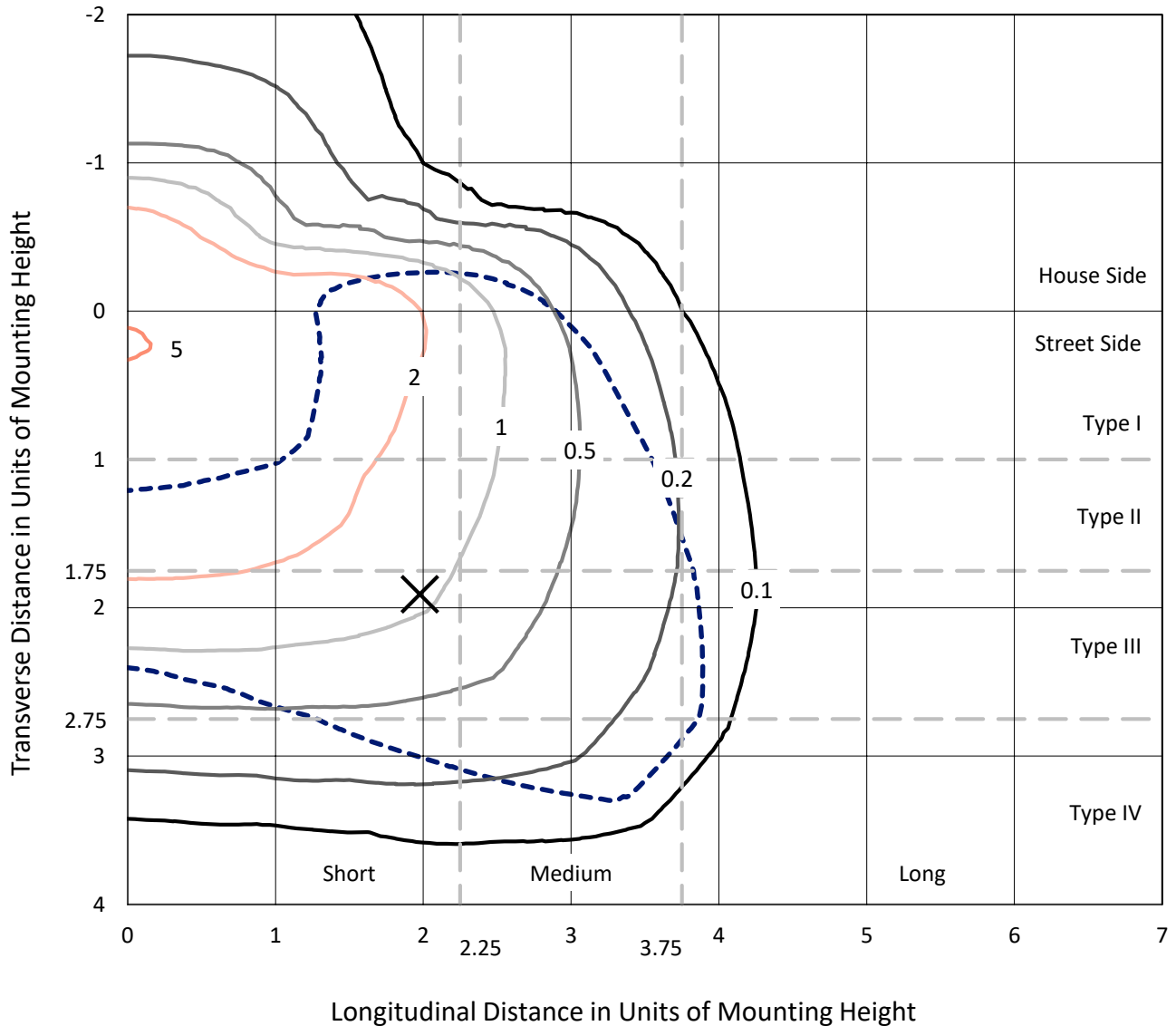
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

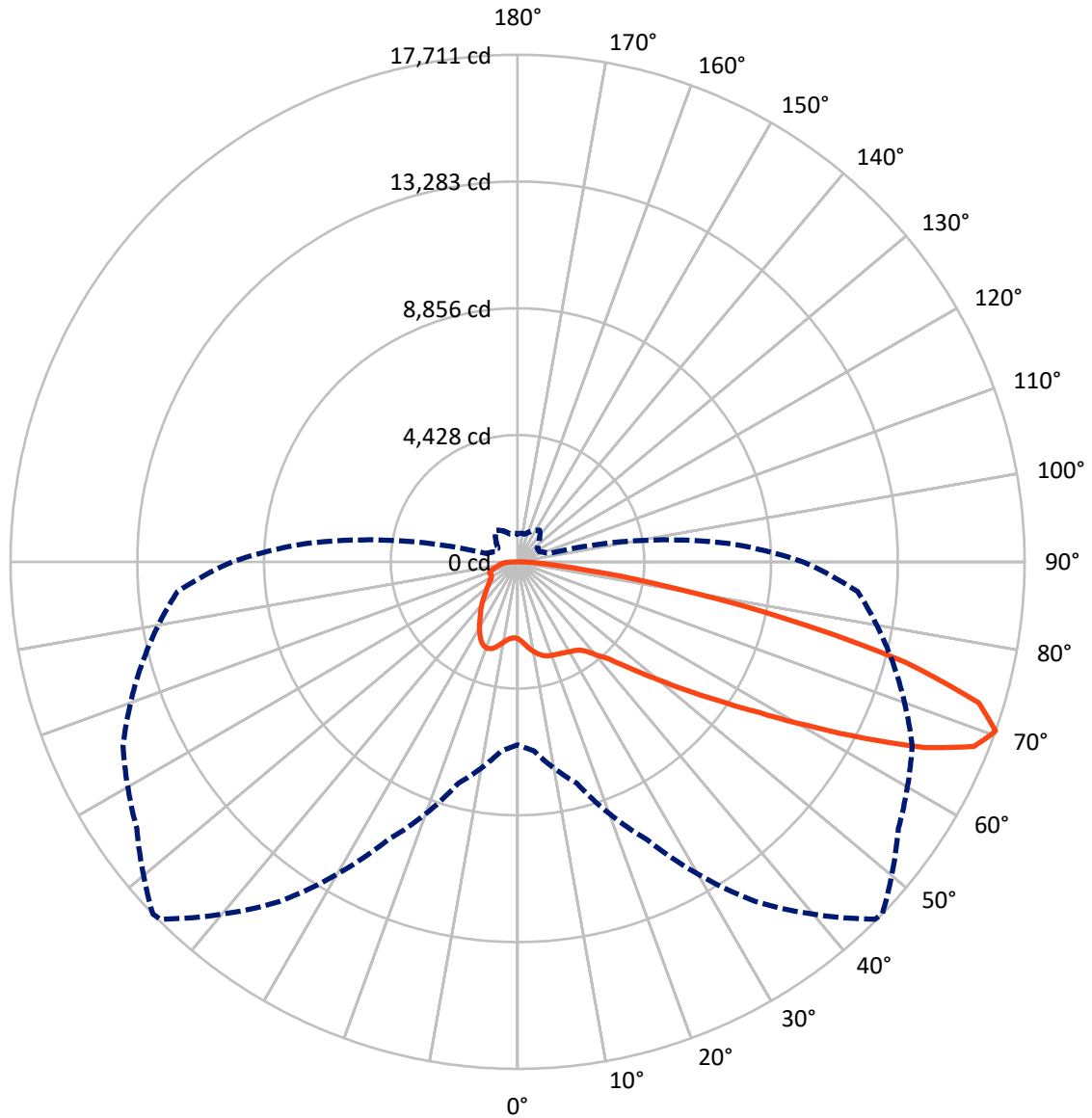
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6049.3	0.0	6049.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	20344.2	0.0	20344.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	26393.5	0.0	26393.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.1	1.0
10°-20°	913.3	3.5
20°-30°	1522.8	5.8
30°-40°	2161.0	8.2
40°-50°	3178.7	12.0
50°-60°	5383.0	20.4
60°-70°	7641.1	29.0
70°-80°	4642.1	17.6
80°-90°	677.5	2.6
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°	26393.5	100.0
0°-180°	26393.5	100.0

**Coefficient of Utilization**



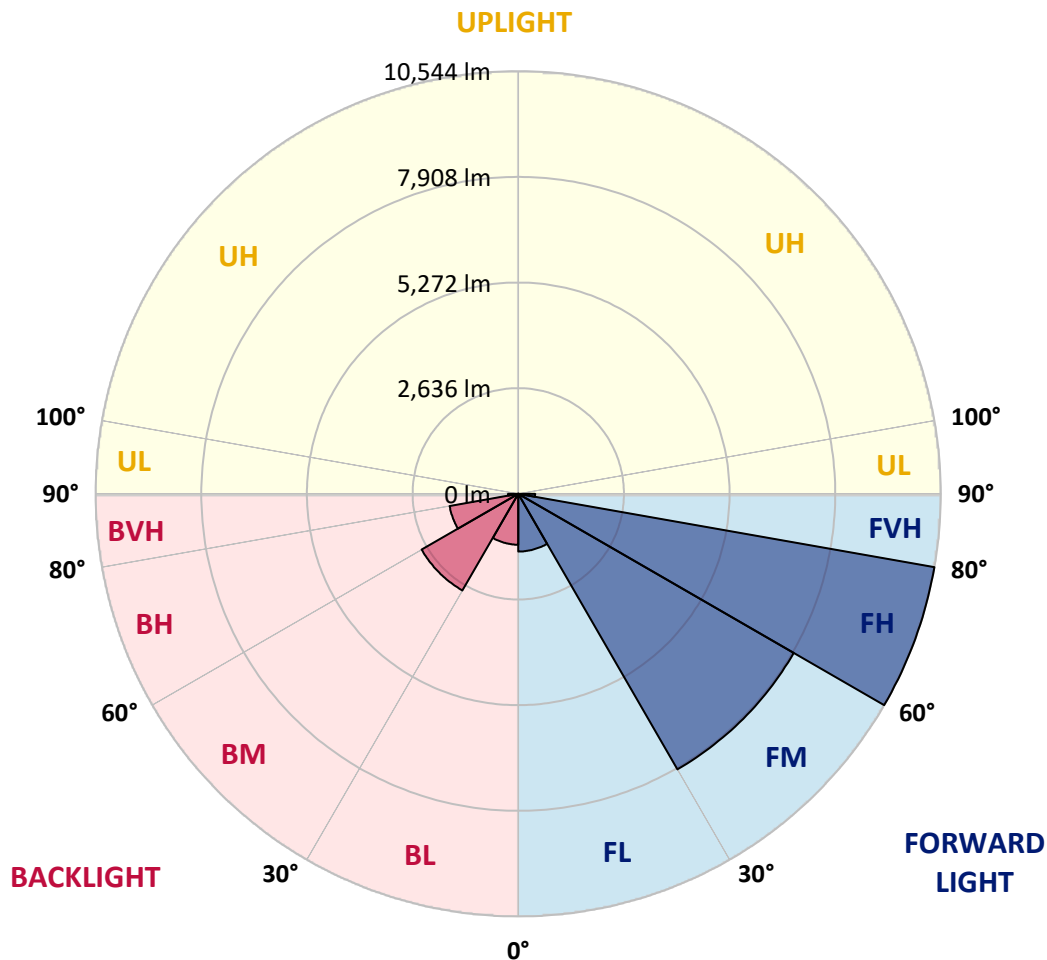
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.2	5.5			
FM (30°-60°)	7938.0	30.1			
FH (60°-80°)	10544.1	39.9			G4/12000
FVH (80°-90°)	422.0	1.6			G3/500
BL (0°-30°)	1270.1	4.8	B3/2500		
BM (30°-60°)	2784.7	10.6	B3/5000		
BH (60°-80°)	1739.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	255.5	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°	46°	55°	65°	75°	85°
0°	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0
2.5°	2823.6	2825.4	2829.0	2820.0	2794.6	2787.5	2784.8	2758.5	2741.4	2716.1	2694.4
5°	3049.4	3051.2	3045.8	3020.4	2964.5	2922.9	2919.3	2859.7	2805.5	2747.7	2704.4
7.5°	3285.1	3287.8	3270.7	3222.8	3144.3	3072.0	3067.5	2986.2	2903.9	2816.3	2751.3
10°	3493.8	3483.0	3454.9	3388.1	3295.1	3206.6	3202.9	3118.1	3023.2	2917.5	2830.8
12.5°	3632.8	3623.8	3587.8	3506.4	3404.3	3323.1	3315.8	3237.2	3145.1	3029.5	2925.6
15°	3709.7	3715.9	3667.2	3575.1	3475.7	3407.0	3400.7	3344.7	3262.6	3146.0	3026.8
17.5°	3719.6	3725.0	3678.0	3586.8	3505.5	3458.6	3455.9	3418.8	3359.2	3247.2	3122.5
20°	3661.8	3665.4	3626.6	3551.6	3498.3	3483.8	3483.0	3466.7	3422.4	3323.1	3202.0
22.5°	3577.8	3580.5	3552.5	3498.3	3480.3	3502.8	3509.1	3502.8	3471.2	3378.2	3264.3
25°	3557.0	3555.2	3526.3	3471.2	3486.6	3534.4	3542.6	3545.3	3523.6	3442.3	3343.9
27.5°	3657.3	3650.9	3595.9	3507.4	3517.2	3575.1	3585.9	3612.1	3598.6	3527.2	3434.2
30°	3947.2	3936.3	3823.4	3644.6	3595.9	3625.7	3639.2	3680.7	3683.4	3623.8	3554.3
32.5°	4436.8	4423.3	4220.9	3901.1	3728.6	3677.1	3689.8	3752.1	3785.5	3739.5	3664.5
35°	5055.5	5040.1	4774.6	4337.4	3950.8	3775.6	3784.6	3834.3	3901.1	3836.1	3736.7
37.5°	5700.4	5663.4	5407.8	4850.5	4304.0	3986.1	3986.1	3992.3	4024.0	3888.5	3821.7
40°	6341.7	6304.7	6073.5	5453.8	4761.0	4317.5	4296.8	4156.8	4131.5	4015.0	3992.3
42.5°	6937.9	6927.1	6790.7	6135.8	5297.6	4643.6	4614.7	4377.2	4382.6	4310.4	4311.2
45°	7572.0	7572.0	7460.9	6824.1	5922.6	5167.5	5138.6	4789.1	4843.2	4809.9	4890.3
47.5°	8089.6	8105.8	8090.4	7541.3	6649.8	5833.2	5780.8	5359.9	5511.7	5626.4	5860.3
50°	8617.9	8643.3	8646.0	8328.0	7528.6	6624.4	6564.8	6117.8	6456.5	6785.2	7245.0
52.5°	9384.8	9441.7	9215.0	9113.0	8605.3	7563.9	7505.1	7092.3	7657.8	8119.4	8911.5
55°	10095.6	10046.0	9884.3	9947.5	9757.9	8633.3	8589.1	8226.9	8996.4	9596.2	10625.0
57.5°	10480.5	10476.8	10639.4	10910.4	11000.7	9952.0	9915.0	9562.7	10505.7	10956.5	12233.6
60°	10932.1	10938.4	11341.2	11956.3	12328.5	11594.1	11577.9	11310.6	11971.7	12226.5	13495.5
62.5°	10995.3	11109.1	11802.8	12861.4	13571.3	13512.7	13548.8	12884.9	13283.2	13239.9	14437.6
65°	10268.2	10418.1	11673.7	13135.1	14807.0	15611.0	15644.3	14468.3	14317.4	14106.1	14774.5
67.5°	8777.8	9000.1	10363.9	12539.8	15214.4	17161.8	17208.8	15695.8	15175.6	14399.7	13963.4
70°	6387.8	6634.4	8007.3	10709.9	14488.2	17657.7	17711.0	16238.6	15208.1	13564.2	11920.3
72.5°	3858.7	4052.0	5183.8	7884.5	12228.2	16754.4	16849.3	15550.4	13884.8	11489.3	8802.2
75°	1694.5	1821.0	2506.5	4543.3	8754.3	13862.3	13980.6	13310.3	11281.6	8349.6	5202.7
77.5°	721.7	757.8	1027.9	1973.6	4948.9	9472.4	9635.0	9725.4	7654.2	4543.3	2198.5
80°	449.8	464.3	581.7	893.4	2315.9	5320.2	5495.4	5722.1	3800.9	1670.1	767.8
82.5°	273.7	290.0	386.6	540.1	1205.9	2411.7	2495.7	2655.6	1475.0	721.7	397.4
85°	164.4	176.2	236.6	341.4	686.5	948.4	947.5	1047.8	694.6	464.3	209.6
87.5°	78.6	87.7	126.4	177.0	346.0	355.9	333.3	377.6	421.8	304.4	105.6
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°	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0	2689.0
2.5°	2687.1	2683.6	2671.9	2662.8	2661.0	2655.6	2651.1	2653.8	2657.3	2658.3	2658.3
5°	2686.3	2676.3	2661.0	2654.6	2662.8	2673.6	2687.1	2705.2	2716.1	2724.2	2729.6
7.5°	2729.6	2710.6	2693.5	2689.8	2706.1	2735.0	2765.8	2803.7	2829.9	2847.9	2851.6
10°	2801.9	2778.4	2761.2	2764.8	2793.8	2835.4	2878.7	2927.5	2967.2	2991.6	2993.3
12.5°	2885.0	2862.4	2846.2	2861.5	2909.4	2960.0	3005.1	3047.6	3083.7	3108.1	3108.1
15°	2980.8	2964.5	2945.6	2980.8	3045.8	3091.0	3109.9	3130.7	3150.6	3168.6	3165.0
17.5°	3072.9	3057.5	3047.6	3089.1	3156.8	3177.6	3165.0	3149.7	3149.7	3159.6	3161.4
20°	3152.4	3138.8	3145.1	3185.8	3221.0	3199.3	3152.4	3103.5	3083.7	3089.1	3094.5
22.5°	3221.9	3215.6	3234.5	3253.5	3228.2	3152.4	3065.6	2999.7	2975.3	2973.5	2975.3
25°	3303.2	3302.3	3325.8	3291.4	3179.5	3039.5	2922.9	2858.8	2845.2	2856.1	2874.2
27.5°	3404.3	3414.3	3426.0	3300.5	3080.1	2868.7	2750.4	2706.1	2719.7	2745.9	2763.1
30°	3533.5	3560.7	3535.3	3277.9	2937.4	2673.6	2560.7	2548.1	2585.1	2622.1	2640.2
32.5°	3659.1	3701.5	3640.1	3219.1	2753.1	2466.8	2379.2	2375.5	2420.7	2456.9	2482.1
35°	3760.3	3844.2	3718.7	3102.7	2540.0	2276.2	2212.1	2187.6	2203.9	2246.4	2275.3
37.5°	3892.1	4032.1	3772.9	2924.8	2308.7	2119.0	2044.1	1988.0	1973.6	1990.8	2005.2
40°	4133.3	4318.5	3798.2	2676.3	2082.9	1961.8	1886.0	1803.8	1746.9	1705.4	1706.2
42.5°	4527.1	4691.5	3781.9	2374.6	1874.3	1808.3	1722.5	1627.7	1535.6	1441.6	1434.4
45°	5166.6	5246.1	3733.2	2054.9	1690.9	1647.5	1567.1	1472.3	1349.4	1242.9	1232.9
47.5°	6190.0	6013.9	3657.3	1775.8	1529.2	1511.2	1437.1	1327.8	1197.7	1111.9	1104.7
50°	7585.5	7122.1	3620.3	1553.6	1386.5	1391.9	1331.4	1215.8	1092.9	1029.7	1022.5
52.5°	9254.7	8412.9	3691.6	1382.0	1271.7	1290.8	1245.6	1137.2	1034.2	984.6	977.3
55°	10986.3	9749.7	3768.4	1257.3	1163.4	1200.4	1185.0	1095.7	1002.6	956.5	950.2
57.5°	12468.5	10747.8	3614.8	1156.1	1066.7	1124.6	1138.1	1069.4	986.3	944.8	937.6
60°	13401.5	11149.8	3212.0	1061.3	990.0	1064.0	1111.0	1062.2	992.7	989.0	983.6
62.5°	13844.2	11114.6	2607.7	986.3	942.1	1037.8	1130.9	1102.9	1064.9	1097.5	1100.2
65°	13645.4	10583.4	1942.0	936.7	907.8	1047.8	1190.5	1179.6	1085.7	1118.2	1122.7
67.5°	12337.5	9316.1	1437.9	893.4	869.9	1075.8	1298.9	1205.0	1045.1	1068.6	1054.1
70°	9971.9	7385.9	1109.2	844.5	831.0	1072.1	1347.7	1189.6	1000.8	1006.3	967.4
72.5°	6876.5	5036.5	902.4	799.4	775.0	977.3	1313.3	1151.7	963.8	922.2	870.7
75°	3739.5	2703.4	766.8	752.4	676.6	858.0	1250.1	1124.6	930.3	875.3	846.3
77.5°	1471.4	1121.9	665.7	688.3	591.6	757.8	1179.6	1073.0	884.3	812.0	797.6
80°	600.7	572.6	551.8	595.3	508.5	663.0	1094.8	1012.6	829.2	753.3	724.4
82.5°	340.5	355.9	429.1	469.7	412.8	610.6	1054.1	963.8	763.2	674.7	640.4
85°	174.3	208.7	298.9	336.9	303.5	519.3	971.0	843.6	612.4	516.6	519.3
87.5°	84.0	116.5	188.8	211.4	196.9	375.8	725.3	611.5	477.0	377.6	365.8
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)