

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: P533831

Luminaire Tested: **GALN-SA9B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31781 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

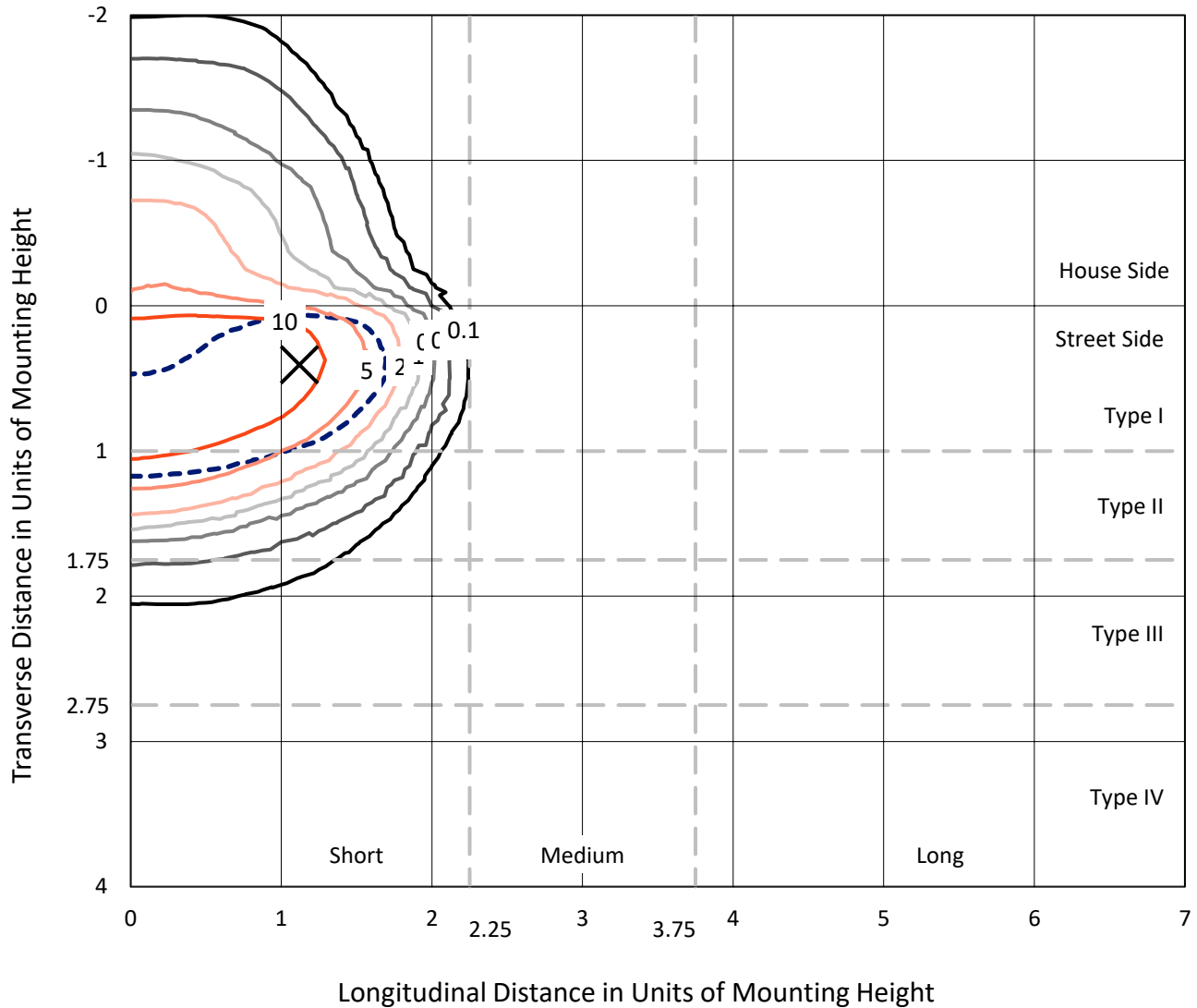
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

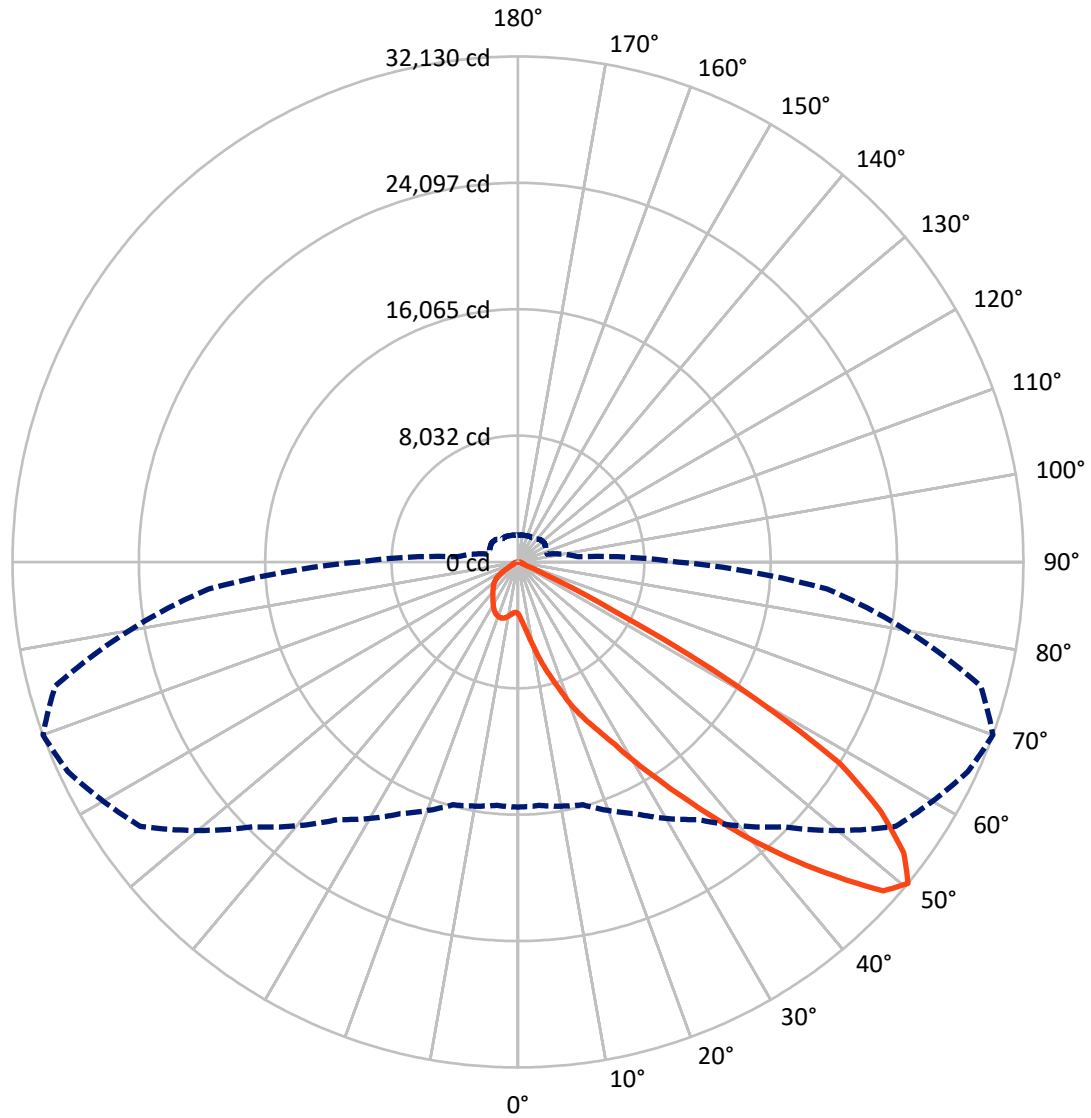
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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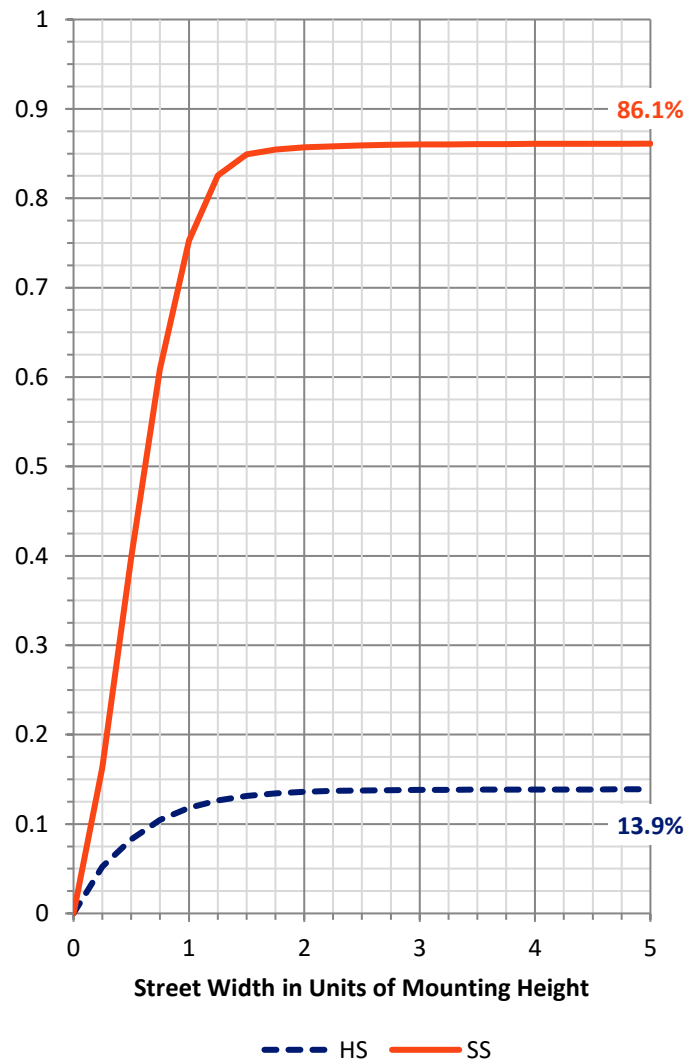
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4438.4	0.0	4438.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	27342.6	0.0	27342.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	31781.0	0.0	31781.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	1.3
10°-20°	1851.7	5.8
20°-30°	3884.5	12.2
30°-40°	6695.5	21.1
40°-50°	9785.4	30.8
50°-60°	7621.2	24.0
60°-70°	1291.3	4.1
70°-80°	177.4	0.6
80°-90°	46.0	0.1
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°	31781.0	100.0
0°-180°	31781.0	100.0



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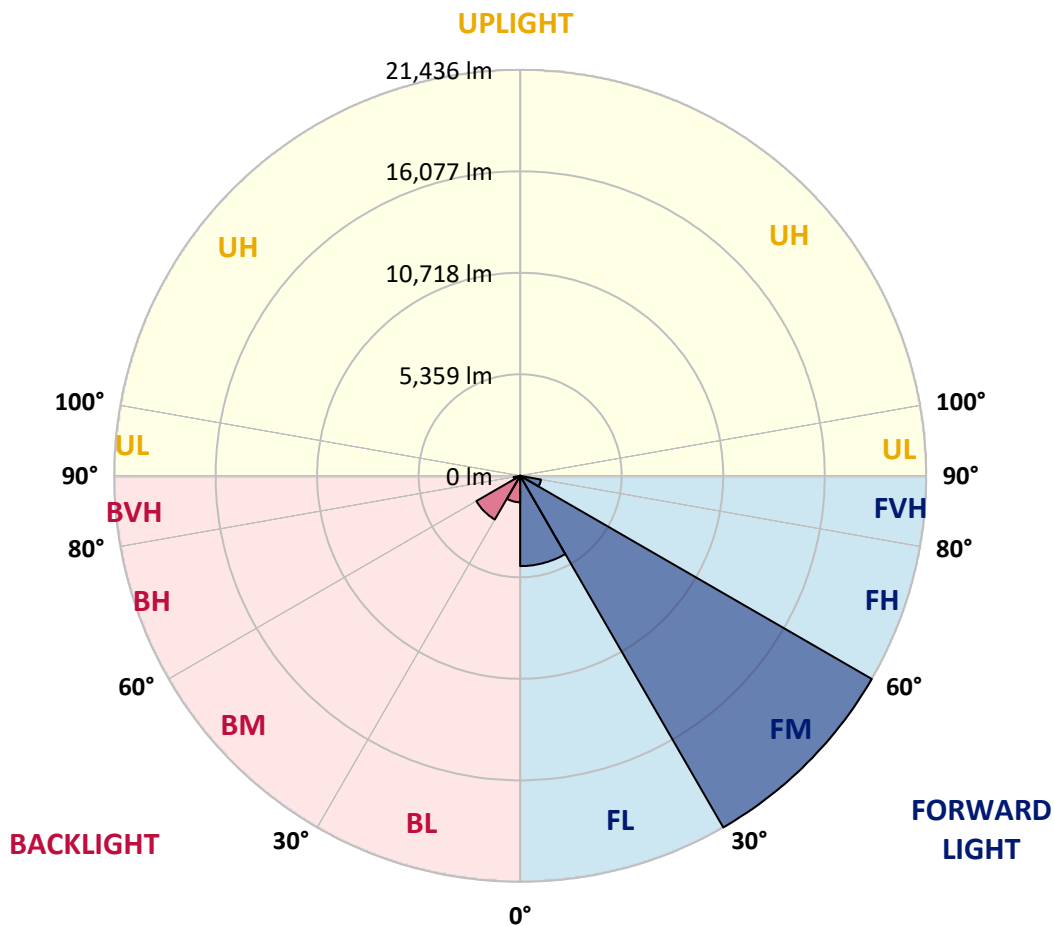
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4767.5	15.0			
FM (30°-60°)	21435.7	67.4			
FH (60°-80°)	1118.1	3.5			G1/1800
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	1396.7	4.4	B3/2500		
BM (30°-60°)	2666.5	8.4	B3/5000		
BH (60°-80°)	350.6	1.1	B1/500		G1/500
BVH (80°-90°)	24.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9
2.5°	4310.8	4279.5	4211.5	4086.1	4033.9	3908.5	3835.3	3694.2	3605.4	3506.1	3396.4
5°	6071.7	5909.7	5810.4	5669.4	5256.6	5000.5	4577.3	4216.7	4049.5	3866.7	3615.8
7.5°	7890.1	7785.6	7649.7	7346.7	7064.5	6531.5	5805.2	5011.0	4671.3	4357.8	3861.4
10°	9394.9	9102.3	9086.6	8862.0	8553.7	7916.2	7043.6	6056.0	5449.9	4990.1	4211.5
12.5°	10445.2	10178.7	10298.9	10272.8	9985.4	9400.2	8391.7	7085.4	6453.1	5737.3	4572.1
15°	11401.4	11291.7	11255.1	11223.8	11108.8	10675.1	9771.2	8339.4	7425.0	6562.9	4979.6
17.5°	12336.7	12054.6	12190.4	12216.6	12206.1	11814.2	10967.7	9530.8	8454.4	7435.5	5408.1
20°	13167.5	13193.7	13010.8	12974.2	12942.9	12927.2	12101.6	10711.7	9718.9	8349.9	5967.2
22.5°	14233.5	14050.6	14212.6	14108.1	13904.3	13778.9	13146.6	11756.7	10816.2	9452.4	6536.7
25°	15492.8	15639.1	15257.6	15215.8	14991.1	14557.5	13987.9	12927.2	11871.7	10476.6	7153.3
27.5°	17044.7	16788.6	16689.3	16459.4	16051.9	15869.0	15200.2	14134.2	13146.6	11553.0	7749.0
30°	18377.1	18309.2	17812.8	17541.0	17185.7	17180.5	16245.2	15769.7	14808.3	13240.7	8569.4
32.5°	19463.9	19166.1	18983.2	18795.1	18507.7	18586.1	17797.1	17546.3	16579.6	14808.3	9536.0
35°	20190.2	19976.0	19866.3	19578.9	19495.3	19845.4	19516.2	19411.7	18617.4	17013.3	10669.9
37.5°	20420.1	20488.1	20467.2	20106.6	20284.3	21230.1	21653.3	21381.6	20963.6	19338.5	11897.8
40°	20623.9	20671.0	20566.4	20989.7	21496.5	22572.9	24103.9	23654.6	23497.8	21695.1	13606.5
42.5°	20738.9	20702.3	20702.3	21433.8	22201.9	24365.2	26470.9	26173.1	26052.9	24203.2	15581.6
45°	20242.5	19887.2	20268.6	21261.4	22808.1	25248.2	28362.5	28775.3	28602.8	27186.8	17891.1
47.5°	18387.5	18607.0	18821.2	20148.4	22071.3	24976.5	29522.5	30928.1	31246.8	29694.9	19406.5
50°	15581.6	15534.6	15978.7	17650.8	19986.4	23806.1	29297.8	31549.9	32129.9	30447.3	19725.2
52.5°	11333.5	11678.4	12159.1	13820.7	16590.1	20775.5	26397.8	29945.7	30719.0	29522.5	19516.2
55°	6599.4	6218.0	7299.6	8705.2	11317.8	15670.4	22316.9	26544.1	27975.8	27839.9	18460.7
57.5°	2644.0	2560.4	2931.3	3950.3	5904.5	9713.7	16229.5	21810.0	24103.9	25499.1	16224.3
60°	1160.0	1133.9	1332.4	1609.4	2414.0	4478.0	8877.6	13564.7	15957.8	17818.0	11166.3
62.5°	836.0	825.6	924.9	1024.1	1275.0	1949.0	3730.8	5465.6	6813.7	8229.7	5000.5
65°	674.1	700.2	768.1	820.4	940.5	1081.6	1316.8	1520.5	1865.4	1933.3	1102.5
67.5°	548.6	569.5	632.3	689.7	710.6	585.2	606.1	533.0	533.0	475.5	381.4
70°	402.3	407.6	480.7	548.6	438.9	235.1	412.8	412.8	371.0	355.3	324.0
72.5°	297.8	303.1	360.5	339.6	172.4	146.3	303.1	334.4	303.1	287.4	261.3
75°	219.5	224.7	188.1	78.4	73.2	94.1	177.7	229.9	219.5	214.2	198.6
77.5°	41.8	31.4	26.1	36.6	52.3	78.4	115.0	141.1	146.3	156.8	146.3
80°	5.2	5.2	15.7	31.4	57.5	83.6	120.2	135.9	141.1	146.3	135.9
82.5°	0.0	5.2	15.7	31.4	57.5	78.4	104.5	120.2	130.6	135.9	130.6
85°	0.0	5.2	10.5	26.1	47.0	57.5	52.3	36.6	31.4	36.6	26.1
87.5°	0.0	0.0	5.2	5.2	10.5	10.5	10.5	10.5	10.5	10.5	10.5
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°	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9	3291.9
2.5°	3333.7	3312.8	3239.6	3161.3	3093.3	3124.7	3093.3	3067.2	3077.7	3067.2	3056.8
5°	3516.6	3422.5	3265.8	3197.8	3140.4	3135.1	3119.5	3114.2	3119.5	3119.5	3072.4
7.5°	3689.0	3537.5	3370.3	3297.1	3229.2	3234.4	3197.8	3197.8	3192.6	3166.5	3156.0
10°	3950.3	3746.5	3532.2	3401.6	3318.0	3302.3	3265.8	3229.2	3229.2	3229.2	3176.9
12.5°	4237.6	3981.6	3689.0	3537.5	3438.2	3359.8	3302.3	3291.9	3234.4	3224.0	3197.8
15°	4488.5	4164.5	3793.5	3584.5	3459.1	3354.6	3265.8	3208.3	3182.2	3166.5	3145.6
17.5°	4734.0	4321.3	3851.0	3584.5	3448.6	3328.5	3234.4	3182.2	3119.5	3129.9	3088.1
20°	5063.2	4488.5	3866.7	3516.6	3349.4	3234.4	3109.0	3082.9	3046.3	3014.9	3025.4
22.5°	5382.0	4608.6	3819.6	3433.0	3192.6	3056.8	2994.0	2962.7	2947.0	2920.9	2884.3
25°	5669.4	4739.3	3746.5	3281.4	3025.4	2926.1	2868.6	2863.4	2826.8	2826.8	2758.9
27.5°	5962.0	4786.3	3621.1	3103.8	2879.1	2821.6	2795.5	2785.0	2769.4	2732.8	2685.8
30°	6296.4	4802.0	3438.2	2920.9	2748.5	2685.8	2722.3	2748.5	2680.5	2612.6	2633.5
32.5°	6573.3	4765.4	3218.7	2748.5	2654.4	2623.1	2696.2	2722.3	2644.0	2570.8	2534.2
35°	6907.7	4676.6	3004.5	2612.6	2560.4	2623.1	2685.8	2685.8	2529.0	2440.2	2419.3
37.5°	7414.6	4577.3	2805.9	2497.7	2461.1	2591.7	2675.3	2617.8	2372.2	2262.5	2236.4
40°	7958.0	4514.6	2612.6	2382.7	2408.8	2539.5	2586.5	2408.8	2158.0	2090.1	2069.2
42.5°	8747.0	4389.2	2440.2	2283.4	2361.8	2466.3	2466.3	2147.6	2053.5	2016.9	2011.7
45°	9729.4	4300.4	2288.6	2199.8	2293.9	2320.0	2236.4	2011.7	1943.8	1933.3	1938.6
47.5°	10210.1	4127.9	2131.9	2100.5	2168.5	2173.7	1954.2	1902.0	1844.5	1828.8	1818.4
50°	10136.9	3819.6	1928.1	1969.9	2064.0	2011.7	1781.8	1792.2	1740.0	1734.8	1708.6
52.5°	9624.8	3333.7	1724.3	1823.6	1928.1	1776.6	1640.7	1630.3	1630.3	1562.3	1536.2
55°	8532.8	2685.8	1478.7	1604.1	1729.5	1494.4	1457.8	1447.4	1421.3	1358.6	1342.9
57.5°	6756.2	1969.9	1113.0	1248.8	1468.3	1269.7	1264.5	1217.5	1149.5	1102.5	1102.5
60°	4018.2	1133.9	700.2	762.9	971.9	1029.4	1144.3	1123.4	1008.5	935.3	914.4
62.5°	1834.1	585.2	444.1	454.6	522.5	668.8	898.7	1039.8	877.8	752.4	742.0
65°	616.6	433.7	365.8	350.1	360.5	402.3	538.2	736.8	700.2	580.0	559.1
67.5°	376.2	386.7	344.9	318.7	318.7	313.5	308.3	334.4	412.8	402.3	407.6
70°	324.0	355.3	318.7	287.4	276.9	261.3	219.5	182.9	156.8	182.9	193.3
72.5°	261.3	282.2	271.7	245.6	219.5	198.6	156.8	120.2	88.8	78.4	78.4
75°	193.3	209.0	219.5	188.1	167.2	141.1	115.0	78.4	47.0	31.4	31.4
77.5°	141.1	156.8	162.0	146.3	125.4	99.3	73.2	52.3	26.1	10.5	10.5
80°	120.2	141.1	156.8	146.3	130.6	94.1	67.9	36.6	20.9	5.2	5.2
82.5°	115.0	141.1	156.8	141.1	125.4	88.8	67.9	41.8	15.7	5.2	5.2
85°	26.1	36.6	47.0	57.5	67.9	67.9	52.3	31.4	15.7	5.2	5.2
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	5.2	5.2	0.0
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)