

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: P528921

Luminaire Tested: **GALN-SA4A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10249 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

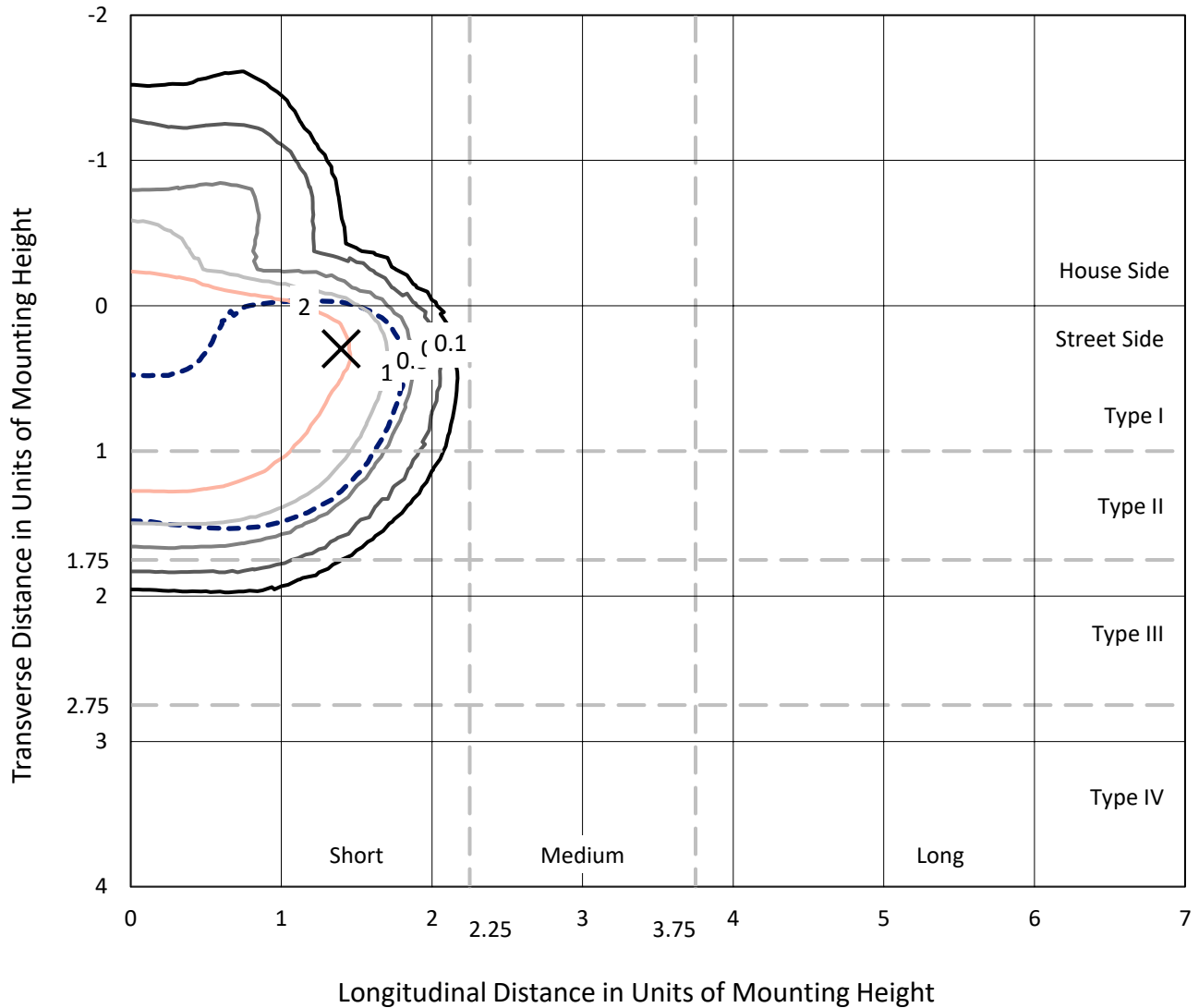
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528921  
 CATALOG NUMBER: GALN-SA4A-735-U-T3R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

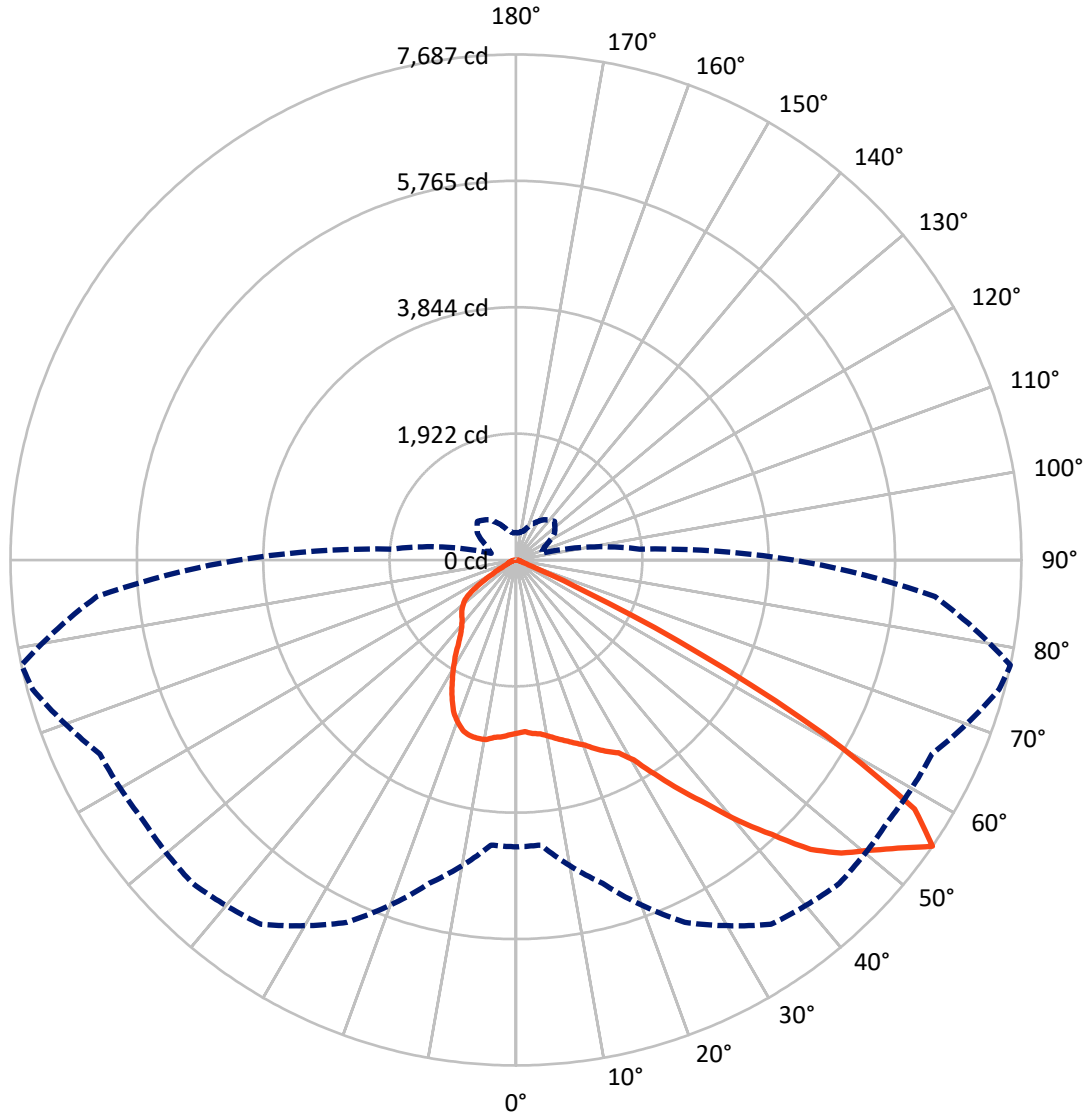
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P528921  
CATALOG NUMBER: GALN-SA4A-735-U-T3R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P528921

CATALOG NUMBER: GALN-SA4A-735-U-T3R-GRSBK

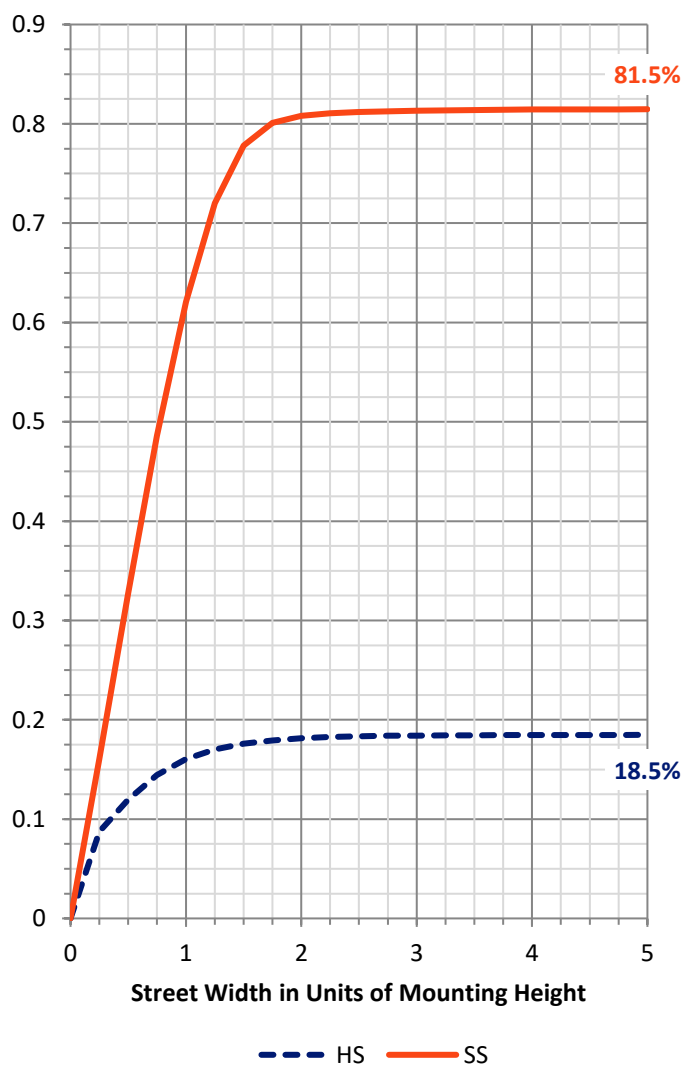
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1903.6	0.0	1903.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8345.4	0.0	8345.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10249.0	0.0	10249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.0	2.3
10°-20°	621.8	6.1
20°-30°	1090.0	10.6
30°-40°	1797.2	17.5
40°-50°	2615.1	25.5
50°-60°	2963.2	28.9
60°-70°	847.2	8.3
70°-80°	65.8	0.6
80°-90°	13.7	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°	10249.0	100.0
0°-180°	10249.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P528921

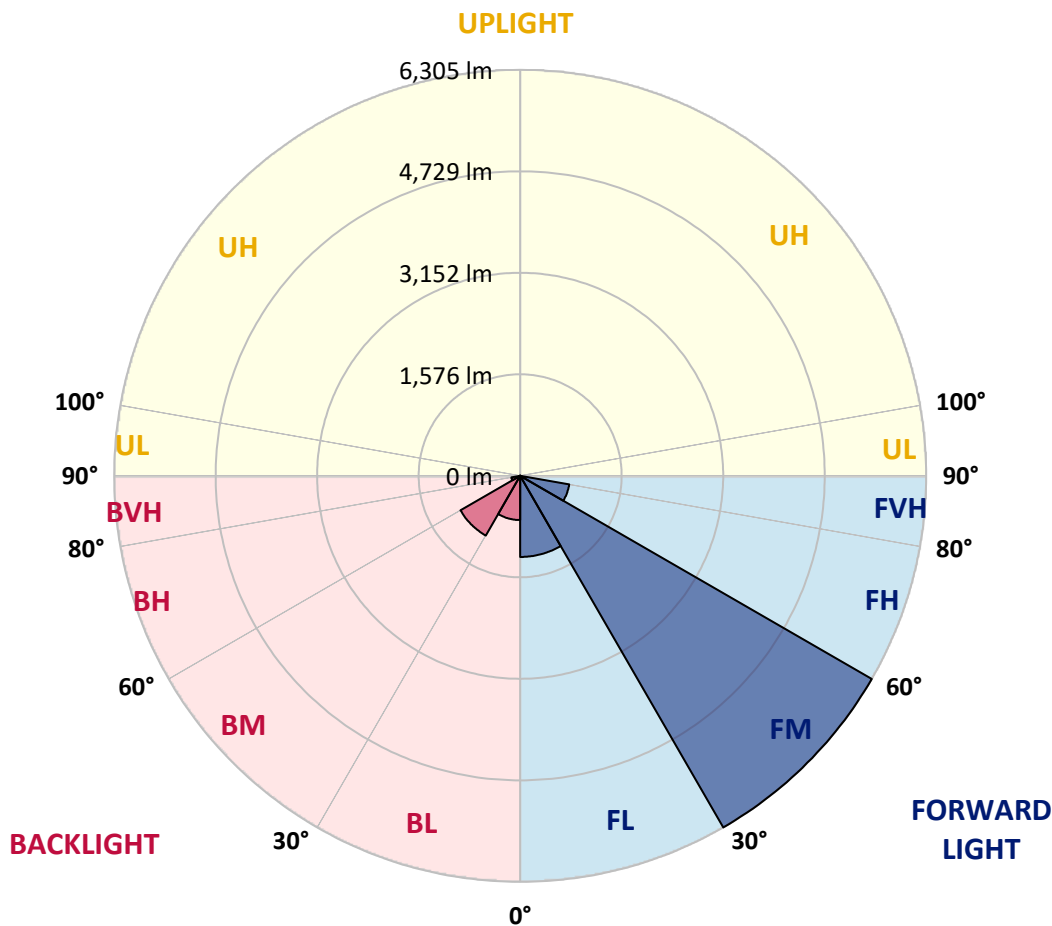
CATALOG NUMBER: GALN-SA4A-735-U-T3R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.9	12.3			
FM (30°-60°)	6304.7	61.5			
FH (60°-80°)	774.1	7.6			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	686.8	6.7	B2/1000		
BM (30°-60°)	1070.8	10.4	B2/2500		
BH (60°-80°)	139.0	1.4	B1/500		G1/500
BVH (80°-90°)	7.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P528921

CATALOG NUMBER: GALN-SA4A-735-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0
2.5°	2477.4	2501.3	2504.9	2534.2	2532.4	2581.9	2596.5	2598.4	2631.4	2614.9	2657.0
5°	2407.8	2395.0	2389.5	2440.8	2455.4	2499.4	2536.1	2558.1	2625.9	2649.7	2693.7
7.5°	2345.5	2345.5	2349.2	2395.0	2389.5	2446.3	2484.8	2552.6	2651.5	2671.7	2724.8
10°	2285.0	2263.0	2290.5	2338.2	2378.5	2404.1	2484.8	2548.9	2664.3	2723.0	2796.3
12.5°	2253.9	2264.9	2268.5	2303.4	2347.3	2424.3	2468.3	2574.6	2756.0	2790.8	2869.6
15°	2449.9	2428.0	2374.8	2343.7	2380.3	2417.0	2526.9	2635.0	2803.6	2853.1	2941.0
17.5°	2677.2	2658.8	2614.9	2530.6	2448.1	2515.9	2602.0	2701.0	2854.9	2928.2	3058.3
20°	2974.0	2944.7	2900.7	2735.8	2664.3	2591.0	2682.7	2799.9	2939.2	3005.2	3138.9
22.5°	3327.7	3327.7	3228.7	3029.0	2880.6	2810.9	2849.4	2917.2	3032.7	3122.4	3254.4
25°	3696.0	3685.0	3595.2	3388.1	3137.1	3054.6	3098.6	3146.3	3177.4	3226.9	3314.9
27.5°	4117.5	4053.3	3939.7	3710.7	3488.9	3329.5	3377.2	3335.0	3296.5	3322.2	3448.6
30°	4403.3	4443.6	4298.9	4079.0	3870.1	3692.3	3701.5	3664.8	3488.9	3525.6	3600.7
32.5°	4700.2	4725.8	4645.2	4524.3	4315.4	4108.3	4033.2	4002.0	3870.1	3886.6	3813.3
35°	4947.5	4997.0	4925.6	4872.4	4811.9	4645.2	4438.1	4538.9	4326.4	4286.0	4095.5
37.5°	5174.8	5160.1	5244.4	5189.4	5176.6	5059.3	4832.1	4852.3	4709.3	4700.2	4480.3
40°	5378.2	5381.8	5497.3	5522.9	5471.6	5262.7	4932.9	5092.3	5207.7	5218.7	4936.5
42.5°	5546.7	5596.2	5695.2	5902.2	5825.3	5477.1	5037.3	5211.4	5640.2	5708.0	5369.0
45°	5693.3	5794.1	5916.9	6102.0	6058.0	5781.3	5297.5	5457.0	6102.0	6279.7	5775.8
47.5°	5702.5	5834.4	5968.2	6243.1	6298.0	5944.4	5566.9	5845.4	6468.5	6660.9	6072.6
50°	5665.9	5735.5	6003.0	6301.7	6426.3	6210.1	5944.4	6171.6	6823.9	6944.9	6222.9
52.5°	5231.6	5284.7	5821.6	6356.7	6657.2	6510.6	6444.6	6626.0	7186.8	7276.6	6364.0
55°	4361.2	4352.0	5090.5	6080.0	6763.5	6955.9	6915.6	6979.7	7606.4	7687.0	6398.8
57.5°	2983.2	3149.9	3787.6	5063.0	6113.0	6851.4	6893.6	6787.3	7117.1	7148.3	5577.9
60°	1608.9	1678.5	2191.6	3379.0	4654.4	5583.4	5693.3	5500.9	5475.3	5387.3	3981.9
62.5°	639.5	674.3	965.7	1673.0	2536.1	3393.6	3630.0	3551.2	3382.7	3151.8	2061.5
65°	304.2	326.2	480.1	782.4	1125.1	1414.6	1651.0	1724.3	1271.7	1145.3	679.8
67.5°	207.1	223.6	350.0	447.1	401.3	419.6	546.1	507.6	298.7	254.7	188.7
70°	157.6	168.6	280.4	304.2	179.6	126.4	141.1	131.9	122.8	124.6	122.8
72.5°	111.8	120.9	205.2	179.6	78.8	58.6	75.1	89.8	89.8	89.8	88.0
75°	67.8	77.0	119.1	69.6	31.2	31.2	47.6	60.5	64.1	66.0	62.3
77.5°	34.8	44.0	40.3	20.2	20.2	23.8	34.8	42.1	45.8	45.8	44.0
80°	7.3	7.3	7.3	11.0	20.2	25.7	34.8	38.5	44.0	44.0	40.3
82.5°	0.0	1.8	5.5	11.0	18.3	23.8	33.0	38.5	44.0	45.8	42.1
85°	0.0	1.8	3.7	7.3	12.8	14.7	12.8	11.0	11.0	11.0	11.0
87.5°	0.0	0.0	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528921

CATALOG NUMBER: GALN-SA4A-735-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0	2635.0
2.5°	2660.7	2666.2	2657.0	2655.2	2647.9	2669.8	2616.7	2603.9	2636.9	2605.7	2613.0
5°	2695.5	2708.3	2691.8	2664.3	2624.0	2561.7	2508.6	2439.0	2406.0	2382.1	2378.5
7.5°	2721.1	2730.3	2713.8	2625.9	2504.9	2347.3	2230.1	2143.9	2076.1	2056.0	2023.0
10°	2825.6	2827.4	2745.0	2550.7	2314.3	2107.3	1927.7	1795.8	1728.0	1685.8	1667.5
12.5°	2895.2	2891.6	2724.8	2402.3	2087.1	1812.3	1607.0	1447.6	1385.3	1365.2	1352.3
15°	2983.2	2963.0	2677.2	2250.2	1793.9	1497.1	1312.0	1202.1	1196.6	1183.7	1196.6
17.5°	3052.8	2996.0	2607.5	1973.5	1513.6	1233.2	1112.3	1119.6	1134.3	1147.1	1148.9
20°	3166.4	3049.2	2448.1	1731.6	1253.4	1057.3	1055.5	1088.5	1125.1	1139.8	1154.4
22.5°	3252.6	3071.1	2277.7	1473.3	1040.8	985.8	1017.0	1066.5	1094.0	1108.6	1130.6
25°	3283.7	3010.7	2050.5	1214.9	938.2	952.9	1000.5	1033.5	1068.3	1084.8	1075.6
27.5°	3314.9	2979.5	1779.3	1000.5	883.2	930.9	971.2	1004.2	1015.2	1037.2	1051.8
30°	3390.0	2871.4	1535.6	864.9	855.7	916.2	945.5	956.5	985.8	998.7	998.7
32.5°	3450.5	2829.3	1277.2	800.8	852.1	923.5	927.2	927.2	930.9	921.7	918.0
35°	3575.1	2684.5	1046.3	762.3	850.2	925.4	934.5	903.4	819.1	786.1	776.9
37.5°	3729.0	2591.0	875.9	753.1	863.1	947.4	962.0	844.7	734.8	681.7	672.5
40°	3915.9	2525.1	764.1	749.5	892.4	998.7	954.7	798.9	656.0	579.0	575.4
42.5°	4133.9	2464.6	689.0	747.6	929.0	1051.8	947.4	760.5	575.4	524.1	531.4
45°	4308.0	2431.6	637.7	734.8	941.9	1083.0	952.9	692.7	542.4	509.4	513.1
47.5°	4443.6	2362.0	595.5	712.8	940.0	1094.0	903.4	665.2	525.9	535.1	544.2
50°	4447.3	2268.5	542.4	665.2	912.5	1073.8	846.6	639.5	522.2	560.7	579.0
52.5°	4397.8	2136.6	485.6	597.4	848.4	1004.2	795.3	628.5	505.7	502.1	524.1
55°	4221.9	1889.2	390.3	483.8	716.5	828.3	749.5	608.4	456.3	414.1	417.8
57.5°	3412.0	1354.2	287.7	346.3	507.6	606.5	676.2	599.2	410.5	351.8	353.7
60°	2112.8	767.8	210.7	236.4	313.3	368.3	547.9	557.1	366.5	296.9	293.2
62.5°	1084.8	379.3	163.1	166.8	192.4	216.2	375.6	467.3	331.7	282.2	282.2
65°	362.8	186.9	142.9	128.3	128.3	133.8	227.2	324.3	280.4	236.4	236.4
67.5°	155.8	139.3	124.6	111.8	102.6	97.1	128.3	188.7	208.9	179.6	172.2
70°	120.9	117.3	108.1	93.5	80.6	73.3	75.1	97.1	119.1	115.4	111.8
72.5°	89.8	89.8	86.1	73.3	62.3	53.1	49.5	51.3	56.8	58.6	60.5
75°	62.3	64.1	64.1	56.8	45.8	38.5	33.0	27.5	22.0	18.3	16.5
77.5°	42.1	44.0	47.6	42.1	34.8	25.7	20.2	14.7	9.2	3.7	3.7
80°	36.6	42.1	45.8	42.1	36.6	27.5	20.2	11.0	5.5	0.0	0.0
82.5°	38.5	42.1	47.6	40.3	34.8	25.7	20.2	12.8	5.5	1.8	0.0
85°	9.2	9.2	11.0	12.8	16.5	18.3	14.7	9.2	5.5	1.8	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	0.0	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)