

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: P528791

Luminaire Tested: **GALN-SA3D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528791  
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-SA3D-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA 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: 10325 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

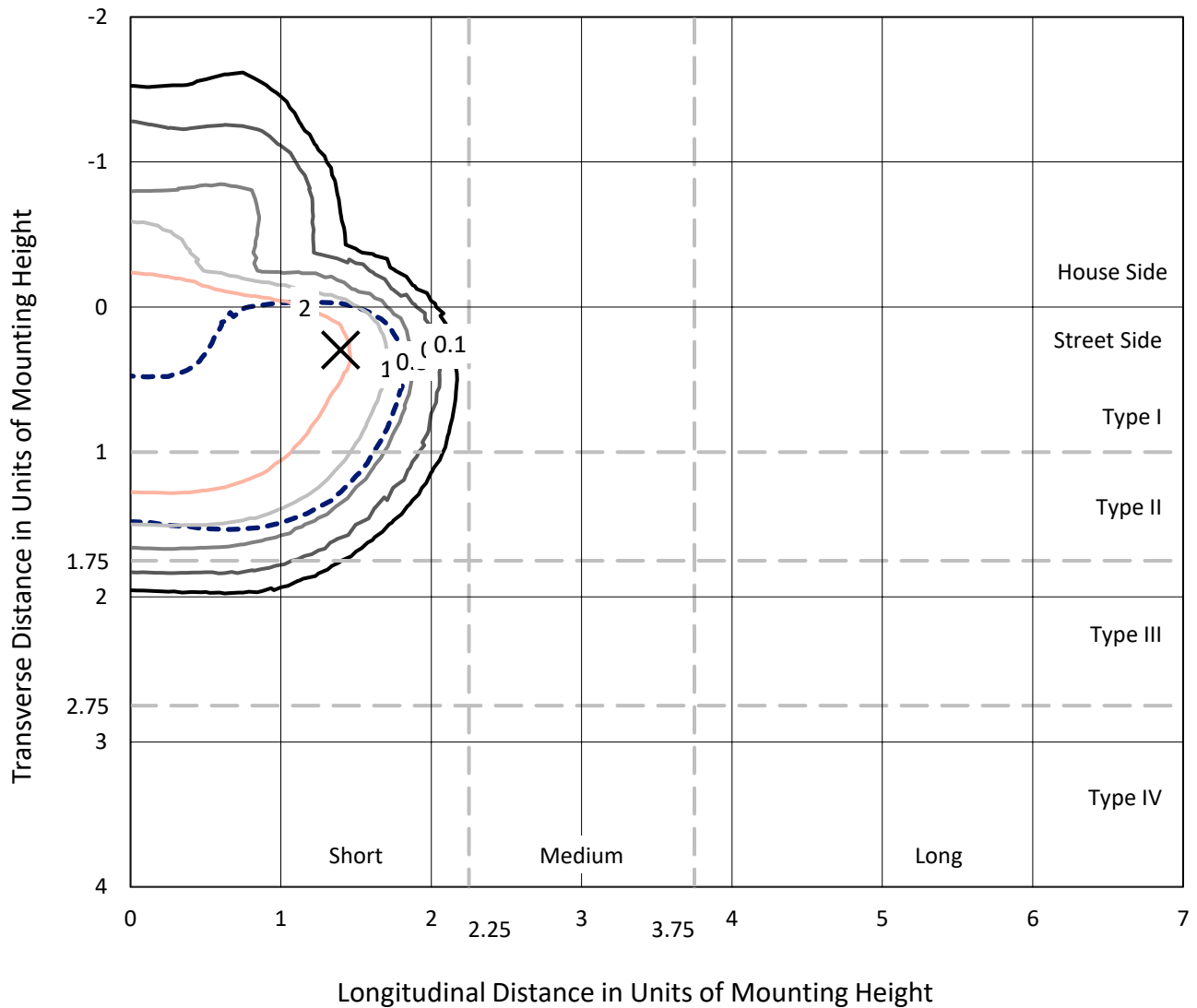
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528791  
 CATALOG NUMBER: GALN-SA3D-827-U-T3R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

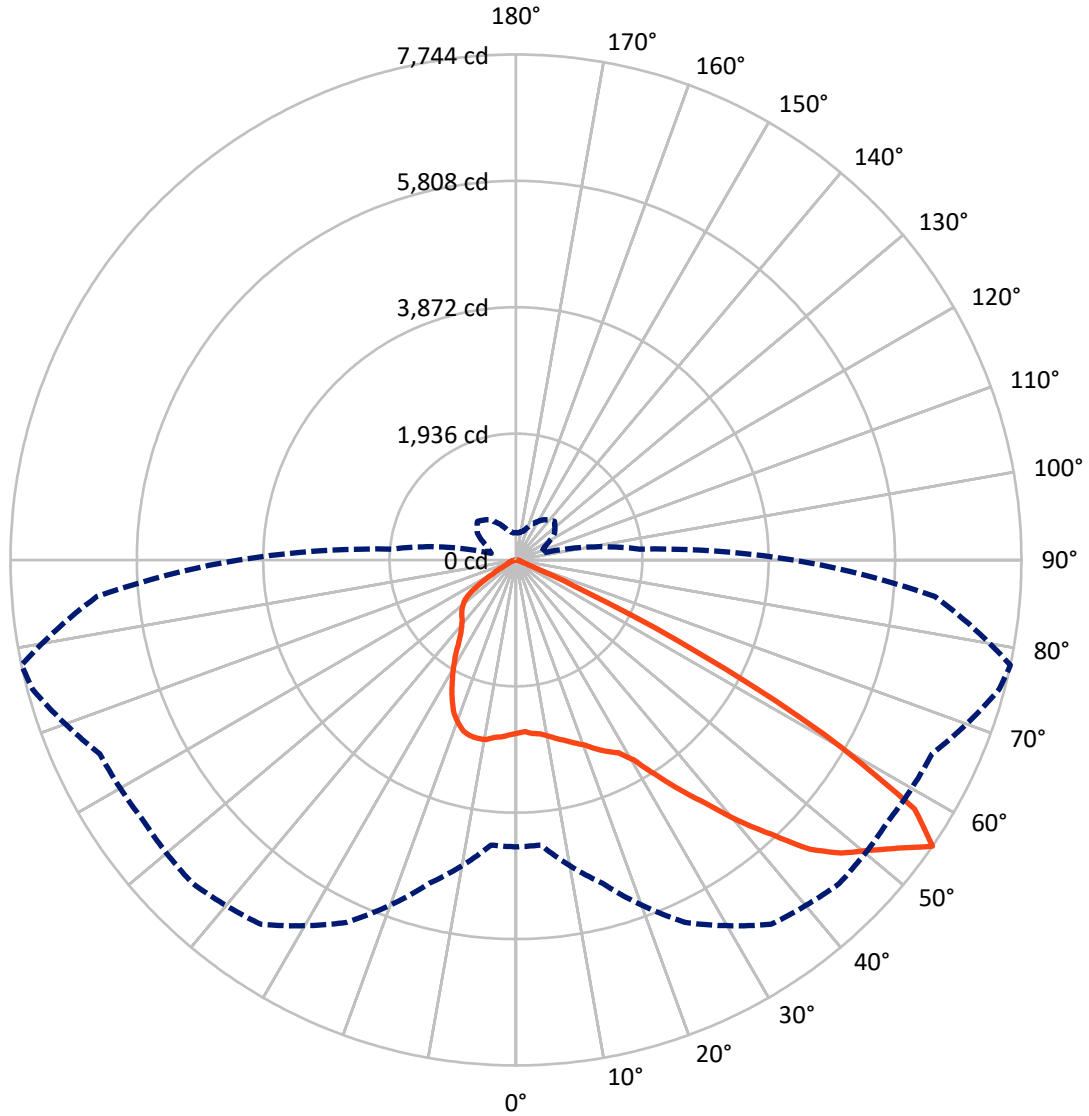
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P528791  
CATALOG NUMBER: GALN-SA3D-827-U-T3R-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P528791  
 CATALOG NUMBER: GALN-SA3D-827-U-T3R-GRSBK

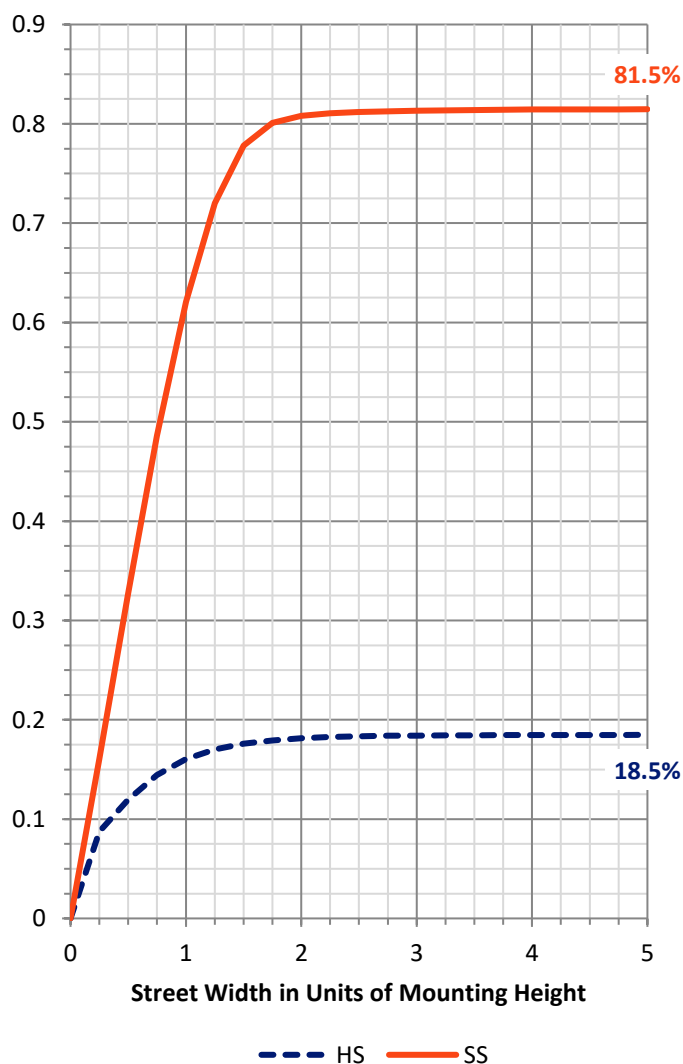
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1917.7	0.0	1917.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8407.2	0.0	8407.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10325.0	0.0	10325.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.7	2.3
10°-20°	626.4	6.1
20°-30°	1098.0	10.6
30°-40°	1810.5	17.5
40°-50°	2634.5	25.5
50°-60°	2985.2	28.9
60°-70°	853.5	8.3
70°-80°	66.3	0.6
80°-90°	13.8	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°	10325.0	100.0
0°-180°	10325.0	100.0

**Coefficient of Utilization**

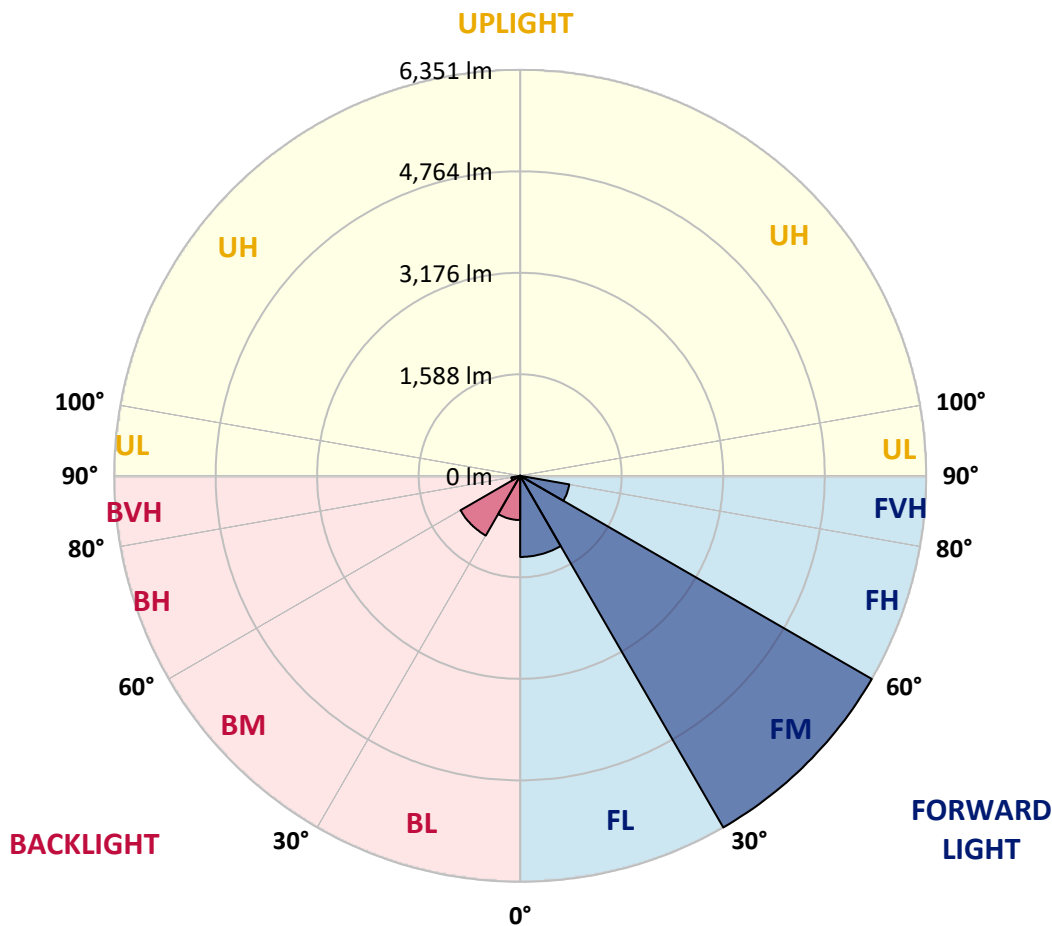


REPORT NUMBER: P528791  
 CATALOG NUMBER: GALN-SA3D-827-U-T3R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.2	12.3			
FM (30°-60°)	6351.5	61.5			
FH (60°-80°)	779.8	7.6			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	691.9	6.7	B2/1000		
BM (30°-60°)	1078.8	10.4	B2/2500		
BH (60°-80°)	140.0	1.4	B1/500		G1/500
BVH (80°-90°)	7.1	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: P528791

CATALOG NUMBER: GALN-SA3D-827-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6
2.5°	2495.8	2519.8	2523.5	2553.0	2551.2	2601.0	2615.8	2617.6	2650.9	2634.3	2676.7
5°	2425.7	2412.7	2407.2	2458.9	2473.7	2518.0	2554.9	2577.0	2645.3	2669.3	2713.6
7.5°	2362.9	2362.9	2366.6	2412.7	2407.2	2464.4	2503.2	2571.5	2671.2	2691.5	2745.0
10°	2302.0	2279.8	2307.5	2355.5	2396.1	2422.0	2503.2	2567.8	2684.1	2743.2	2817.0
12.5°	2270.6	2281.7	2285.4	2320.4	2364.7	2442.3	2486.6	2593.6	2776.4	2811.5	2890.9
15°	2468.1	2446.0	2392.4	2361.0	2398.0	2434.9	2545.6	2654.6	2824.4	2874.2	2962.8
17.5°	2697.0	2678.6	2634.3	2549.3	2466.3	2534.6	2621.3	2721.0	2876.1	2949.9	3081.0
20°	2996.1	2966.5	2922.2	2756.1	2684.1	2610.3	2702.6	2820.7	2961.0	3027.5	3162.2
22.5°	3352.4	3352.4	3252.7	3051.5	2901.9	2831.8	2870.5	2938.8	3055.1	3145.6	3278.5
25°	3723.4	3712.3	3621.9	3413.3	3160.4	3077.3	3121.6	3169.6	3201.0	3250.8	3339.4
27.5°	4148.0	4083.4	3968.9	3738.2	3514.8	3354.2	3402.2	3359.7	3321.0	3346.8	3474.2
30°	4436.0	4476.6	4330.7	4109.2	3898.8	3719.7	3728.9	3692.0	3514.8	3551.7	3627.4
32.5°	4735.0	4760.9	4679.6	4557.8	4347.4	4138.8	4063.1	4031.7	3898.8	3915.4	3841.5
35°	4984.2	5034.1	4962.1	4908.5	4847.6	4679.6	4471.0	4572.6	4358.4	4317.8	4125.8
37.5°	5213.1	5198.4	5283.3	5227.9	5215.0	5096.8	4867.9	4888.2	4744.2	4735.0	4513.5
40°	5418.0	5421.7	5538.0	5563.9	5512.2	5301.7	4969.5	5130.1	5246.4	5257.4	4973.2
42.5°	5587.9	5637.7	5737.4	5946.0	5868.5	5517.7	5074.7	5250.1	5682.0	5750.3	5408.8
45°	5735.6	5837.1	5960.8	6147.2	6102.9	5824.2	5336.8	5497.4	6147.2	6326.3	5818.6
47.5°	5744.8	5877.7	6012.5	6289.4	6344.7	5988.5	5608.2	5888.8	6516.4	6710.2	6117.7
50°	5707.9	5778.0	6047.5	6348.4	6474.0	6256.1	5988.5	6217.4	6874.5	6996.4	6269.1
52.5°	5270.4	5323.9	5864.8	6403.8	6706.6	6558.9	6492.4	6675.2	7240.1	7330.5	6411.2
55°	4393.5	4384.3	5128.2	6125.1	6813.6	7007.5	6966.8	7031.5	7662.8	7744.0	6446.3
57.5°	3005.3	3173.3	3815.7	5100.5	6158.3	6902.2	6944.7	6837.6	7169.9	7201.3	5619.3
60°	1620.8	1690.9	2207.8	3404.0	4688.9	5624.8	5735.6	5541.7	5515.9	5427.3	4011.4
62.5°	644.3	679.3	972.8	1685.4	2554.9	3418.8	3656.9	3577.6	3407.7	3175.1	2076.8
65°	306.4	328.6	483.7	788.2	1133.5	1425.1	1663.3	1737.1	1281.1	1153.8	684.9
67.5°	208.6	225.2	352.6	450.4	404.3	422.7	550.1	511.3	300.9	256.6	190.1
70°	158.8	169.8	282.4	306.4	180.9	127.4	142.1	132.9	123.7	125.5	123.7
72.5°	112.6	121.8	206.8	180.9	79.4	59.1	75.7	90.5	90.5	90.5	88.6
75°	68.3	77.5	120.0	70.1	31.4	31.4	48.0	60.9	64.6	66.5	62.8
77.5°	35.1	44.3	40.6	20.3	20.3	24.0	35.1	42.5	46.2	46.2	44.3
80°	7.4	7.4	7.4	11.1	20.3	25.8	35.1	38.8	44.3	44.3	40.6
82.5°	0.0	1.8	5.5	11.1	18.5	24.0	33.2	38.8	44.3	46.2	42.5
85°	0.0	1.8	3.7	7.4	12.9	14.8	12.9	11.1	11.1	11.1	11.1
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: P528791

CATALOG NUMBER: GALN-SA3D-827-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6
2.5°	2680.4	2685.9	2676.7	2674.9	2667.5	2689.6	2636.1	2623.2	2656.4	2625.0	2632.4
5°	2715.5	2728.4	2711.8	2684.1	2643.5	2580.7	2527.2	2457.0	2423.8	2399.8	2396.1
7.5°	2741.3	2750.6	2733.9	2645.3	2523.5	2364.7	2246.6	2159.8	2091.5	2071.2	2038.0
10°	2846.5	2848.4	2765.3	2569.6	2331.5	2122.9	1942.0	1809.1	1740.8	1698.3	1679.9
12.5°	2916.7	2913.0	2745.0	2420.1	2102.6	1825.7	1619.0	1458.3	1395.6	1375.3	1362.4
15°	3005.3	2985.0	2697.0	2266.9	1807.2	1508.2	1321.7	1211.0	1205.4	1192.5	1205.4
17.5°	3075.5	3018.2	2626.9	1988.2	1524.8	1242.4	1120.5	1127.9	1142.7	1155.6	1157.4
20°	3189.9	3071.8	2466.3	1744.5	1262.7	1065.1	1063.3	1096.5	1133.5	1148.2	1163.0
22.5°	3276.7	3093.9	2294.6	1484.2	1048.5	993.2	1024.5	1074.4	1102.1	1116.8	1139.0
25°	3308.1	3033.0	2065.7	1223.9	945.2	959.9	1007.9	1041.2	1076.2	1092.8	1083.6
27.5°	3339.4	3001.6	1792.5	1007.9	889.8	937.8	978.4	1011.6	1022.7	1044.8	1059.6
30°	3415.1	2892.7	1547.0	871.3	862.1	923.0	952.5	963.6	993.2	1006.1	1006.1
32.5°	3476.0	2850.2	1286.7	806.7	858.4	930.4	934.1	934.1	937.8	928.5	924.9
35°	3601.6	2704.4	1054.1	767.9	856.5	932.2	941.5	910.1	825.2	791.9	782.7
37.5°	3756.6	2610.3	882.4	758.7	869.5	954.4	969.2	851.0	740.3	686.7	677.5
40°	3944.9	2543.8	769.8	755.0	899.0	1006.1	961.8	804.9	660.9	583.3	579.6
42.5°	4164.6	2482.9	694.1	753.2	935.9	1059.6	954.4	766.1	579.6	528.0	535.3
45°	4340.0	2449.7	642.4	740.3	948.8	1091.0	959.9	697.8	546.4	513.2	516.9
47.5°	4476.6	2379.5	600.0	718.1	947.0	1102.1	910.1	670.1	529.8	539.0	548.3
50°	4480.3	2285.4	546.4	670.1	919.3	1081.8	852.9	644.3	526.1	564.9	583.3
52.5°	4430.4	2152.4	489.2	601.8	854.7	1011.6	801.2	633.2	509.5	505.8	528.0
55°	4253.2	1903.2	393.2	487.3	721.8	834.4	755.0	612.9	459.7	417.2	420.9
57.5°	3437.3	1364.2	289.8	348.9	511.3	611.0	681.2	603.6	413.5	354.4	356.3
60°	2128.5	773.5	212.3	238.1	315.7	371.0	552.0	561.2	369.2	299.1	295.4
62.5°	1092.8	382.1	164.3	168.0	193.8	217.8	378.4	470.7	334.1	284.3	284.3
65°	365.5	188.3	144.0	129.2	129.2	134.8	228.9	326.7	282.4	238.1	238.1
67.5°	156.9	140.3	125.5	112.6	103.4	97.8	129.2	190.1	210.4	180.9	173.5
70°	121.8	118.1	108.9	94.1	81.2	73.8	75.7	97.8	120.0	116.3	112.6
72.5°	90.5	90.5	86.8	73.8	62.8	53.5	49.8	51.7	57.2	59.1	60.9
75°	62.8	64.6	64.6	57.2	46.2	38.8	33.2	27.7	22.2	18.5	16.6
77.5°	42.5	44.3	48.0	42.5	35.1	25.8	20.3	14.8	9.2	3.7	3.7
80°	36.9	42.5	46.2	42.5	36.9	27.7	20.3	11.1	5.5	0.0	0.0
82.5°	38.8	42.5	48.0	40.6	35.1	25.8	20.3	12.9	5.5	1.8	0.0
85°	9.2	9.2	11.1	12.9	16.6	18.5	14.8	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)