

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: P452432

Luminaire Tested: **GALN-SA3B-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12377 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

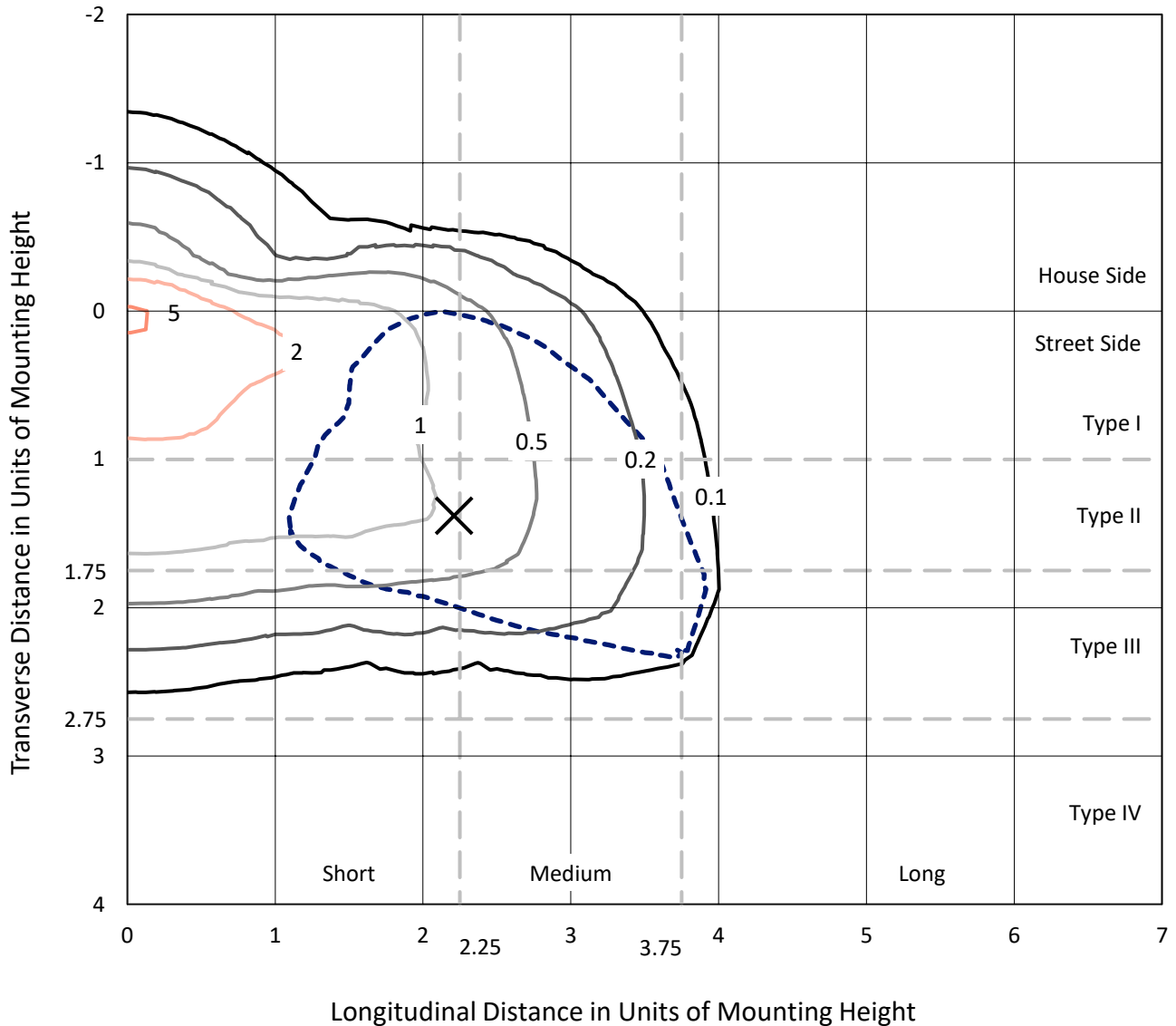
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

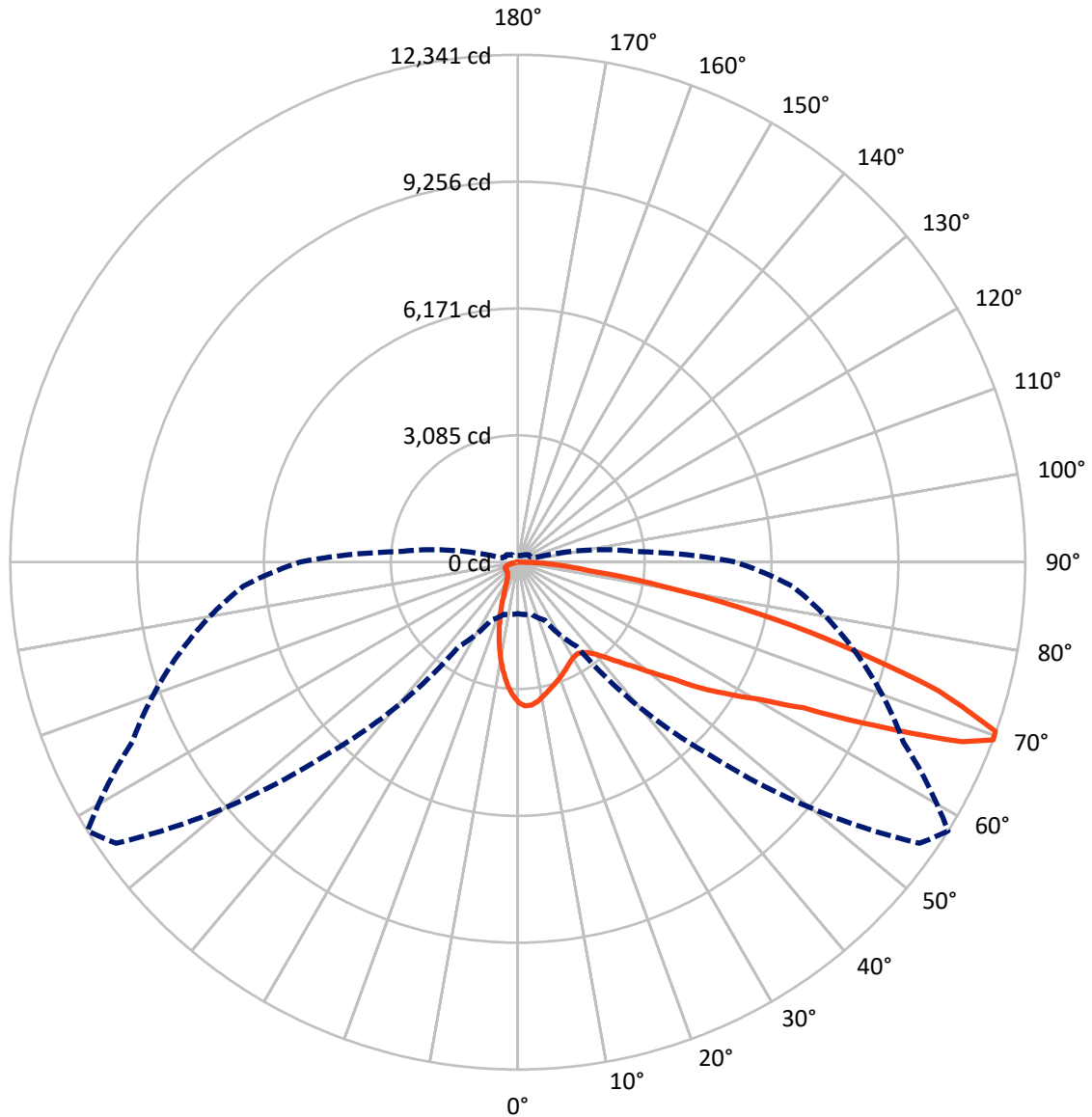
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1813.8	0.0	1813.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10563.1	0.0	10563.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	12377.0	0.0	12377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	2.3
10°-20°	637.8	5.2
20°-30°	824.1	6.7
30°-40°	1070.3	8.6
40°-50°	1556.1	12.6
50°-60°	2482.9	20.1
60°-70°	3316.9	26.8
70°-80°	1912.1	15.4
80°-90°	286.4	2.3
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°	12377.0	100.0
0°-180°	12377.0	100.0

Coefficient of Utilization



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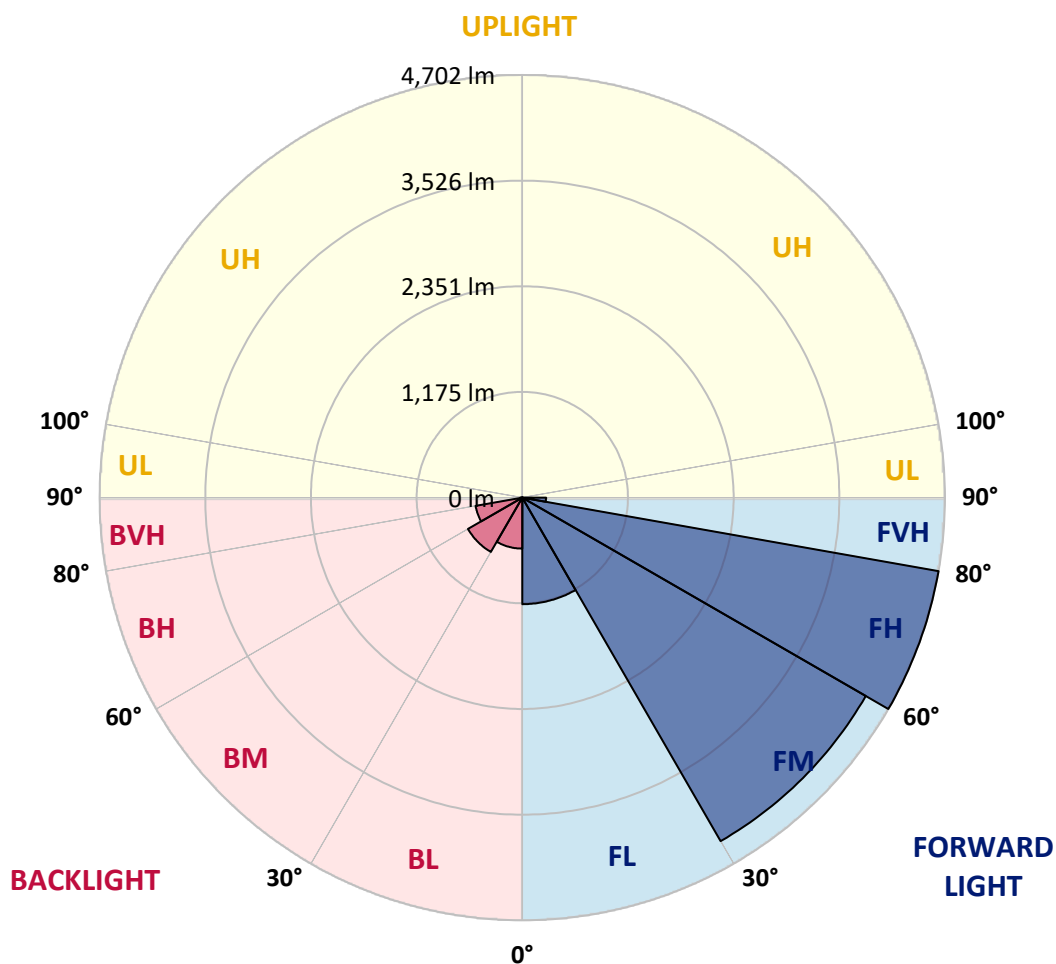
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.4	9.6			
FM	(30°-60°)	4411.8	35.6			
FH	(60°-80°)	4701.5	38.0			G2/5000
FVH	(80°-90°)	264.4	2.1			G3/500
BL	(0°-30°)	566.9	4.6	B2/1000		
BM	(30°-60°)	697.5	5.6	B1/1000		
BH	(60°-80°)	527.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3
2.5°	3547.3	3557.0	3554.2	3550.7	3545.2	3530.0	3505.2	3501.0	3485.2	3451.3	3409.2
5°	3492.8	3501.0	3501.7	3506.6	3513.5	3510.7	3492.8	3490.7	3467.2	3421.7	3351.3
7.5°	3305.7	3316.7	3340.9	3367.8	3392.0	3414.8	3420.3	3423.7	3409.2	3356.8	3262.9
10°	3095.2	3106.2	3117.3	3157.3	3216.6	3273.3	3320.2	3326.4	3329.9	3281.5	3166.9
12.5°	2861.9	2884.6	2908.1	2967.5	3046.8	3135.9	3218.7	3231.8	3255.3	3218.7	3084.1
15°	2663.7	2687.2	2721.0	2774.2	2870.1	2998.5	3115.2	3136.6	3182.8	3164.2	3006.8
17.5°	2526.4	2534.7	2558.1	2618.9	2722.4	2857.7	3013.7	3056.5	3130.4	3125.5	2940.5
20°	2418.0	2428.4	2442.9	2480.1	2587.8	2730.7	2919.1	2974.4	3074.5	3091.0	2875.0
22.5°	2372.5	2380.0	2378.0	2398.0	2471.2	2614.7	2823.2	2888.8	3024.8	3067.6	2814.2
25°	2375.2	2382.1	2371.8	2366.9	2410.4	2512.6	2723.1	2806.6	2984.7	3051.7	2759.0
27.5°	2421.5	2426.3	2407.0	2387.6	2391.1	2449.1	2640.3	2732.8	2950.9	3058.6	2712.8
30°	2483.6	2492.6	2480.1	2456.7	2431.1	2433.9	2587.1	2678.2	2935.0	3082.7	2690.7
32.5°	2563.7	2571.9	2566.4	2547.8	2514.6	2478.1	2574.0	2658.2	2936.4	3131.7	2685.8
35°	2647.9	2664.4	2673.4	2672.0	2645.1	2581.6	2625.8	2695.5	2969.5	3213.9	2714.1
37.5°	2743.1	2756.9	2795.6	2820.4	2795.6	2721.7	2742.4	2790.8	3042.7	3332.6	2776.3
40°	2835.6	2856.3	2912.9	2990.2	2980.6	2915.7	2920.5	2952.3	3171.8	3509.3	2897.7
42.5°	2932.3	2957.1	3055.8	3170.4	3193.2	3142.8	3155.9	3184.2	3355.4	3754.4	3106.2
45°	3056.5	3086.2	3207.7	3350.6	3440.3	3409.2	3446.5	3460.3	3601.1	4073.3	3380.9
47.5°	3216.6	3251.2	3401.0	3579.0	3706.0	3734.4	3799.2	3791.0	3905.5	4450.8	3737.1
50°	3486.5	3505.9	3647.4	3828.9	4003.6	4131.3	4201.7	4214.8	4283.1	4818.1	4135.4
52.5°	3807.5	3824.8	3926.9	4085.7	4304.5	4575.1	4749.0	4706.2	4722.8	5265.4	4601.3
55°	4168.5	4197.5	4262.4	4368.0	4651.7	5050.0	5399.3	5409.6	5226.0	5693.3	5047.9
57.5°	4448.1	4497.1	4608.2	4758.7	5118.3	5578.1	6047.4	6054.3	5819.6	6150.3	5540.8
60°	4307.3	4365.3	4619.3	4985.8	5730.6	6499.6	6821.9	6782.6	6397.4	6670.8	6142.0
62.5°	3699.8	3710.2	4079.5	4652.4	5919.0	7732.4	7974.7	7808.3	7168.4	7330.6	6752.9
65°	2394.5	2462.2	2754.9	3557.6	5299.9	8416.4	9994.4	9609.9	8249.4	8079.6	7264.4
67.5°	1511.7	1494.4	1615.9	2031.5	3645.3	7813.8	11718.0	11657.2	9663.1	8552.4	7142.2
69°	1253.5	1272.9	1314.3	1557.2	2508.4	6671.4	11921.6	12341.3	10348.5	8515.1	6698.4
70°	1136.9	1145.8	1189.3	1380.5	1935.5	5587.7	11587.5	12322.7	10617.7	8359.1	6376.7
72.5°	902.2	901.5	976.0	1148.6	1446.8	3189.7	9514.7	10698.5	10316.7	7633.0	5268.8
75°	685.4	696.5	778.6	971.9	1332.9	1742.9	6639.7	8239.0	8239.7	6028.8	3287.7
77.5°	494.2	501.1	597.1	815.9	1255.6	1413.0	4422.5	5909.4	5555.3	2762.5	1033.3
80°	323.7	327.9	401.0	646.1	1132.0	1332.9	2622.3	3617.0	2620.3	733.1	341.7
82.5°	177.4	198.1	245.0	418.3	908.4	1231.4	1593.8	1830.6	982.9	326.5	178.1
85°	89.0	94.6	138.1	244.4	593.6	1018.8	1110.0	1049.9	507.3	162.2	92.5
87.5°	26.2	33.1	57.3	94.6	240.9	530.8	617.8	554.3	195.3	58.7	19.3
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°	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3
2.5°	3392.0	3379.6	3324.3	3274.6	3229.1	3180.8	3140.0	3104.1	3107.6	3108.3	3071.7
5°	3314.7	3286.4	3181.4	3083.4	3000.6	2895.7	2805.9	2748.0	2719.0	2680.3	2694.1
7.5°	3209.7	3155.2	3009.6	2846.7	2694.1	2558.1	2410.4	2308.9	2244.1	2181.2	2189.5
10°	3101.4	3013.7	2801.8	2586.4	2389.0	2171.6	1983.1	1821.6	1701.5	1656.6	1627.0
12.5°	2990.2	2875.0	2605.8	2319.3	2046.6	1786.4	1519.3	1346.0	1213.5	1143.1	1152.1
15°	2888.8	2748.6	2401.4	2052.2	1698.1	1388.1	1121.7	956.7	864.2	844.9	855.9
17.5°	2794.9	2611.3	2210.2	1792.6	1379.2	1040.9	842.8	749.6	712.4	702.0	701.3
20°	2698.3	2494.6	1995.6	1515.1	1074.7	806.9	691.6	648.2	641.3	645.4	646.1
22.5°	2600.2	2350.4	1774.7	1239.7	855.9	659.9	604.7	592.9	598.5	608.1	609.5
25°	2509.8	2223.4	1562.1	998.1	683.4	579.8	552.9	552.9	565.3	579.8	580.5
27.5°	2435.3	2100.5	1350.2	792.4	572.2	521.8	512.9	517.7	535.0	546.0	546.7
30°	2373.8	1985.9	1150.0	635.0	503.2	475.6	473.5	481.8	494.2	504.6	505.3
32.5°	2327.6	1885.1	962.9	533.6	455.6	440.4	439.7	445.9	452.8	455.6	458.3
35°	2309.6	1801.6	791.7	469.4	423.8	414.2	414.2	413.5	416.2	417.6	419.0
37.5°	2324.1	1737.4	659.2	428.0	400.4	393.5	389.3	385.2	383.8	383.8	384.5
40°	2385.6	1703.6	560.5	401.0	383.8	373.4	365.8	361.0	356.2	357.6	358.9
42.5°	2516.0	1709.8	493.5	383.1	369.3	354.8	343.8	338.2	334.8	338.9	338.2
45°	2723.8	1771.9	450.7	370.7	354.8	336.2	325.8	320.3	320.3	326.5	328.6
47.5°	3014.4	1890.6	428.0	361.0	343.8	321.7	311.3	307.2	308.5	318.9	319.6
50°	3369.2	2097.0	423.8	356.2	338.2	311.3	299.6	295.4	298.9	309.9	311.3
52.5°	3760.6	2362.8	443.8	356.9	333.4	305.1	289.9	283.7	287.2	296.1	298.9
55°	4224.4	2695.5	495.6	359.6	326.5	301.6	283.0	269.2	273.3	279.6	280.2
57.5°	4698.0	3115.2	586.7	360.3	321.0	295.4	271.3	253.3	253.3	257.5	259.5
60°	5276.4	3572.1	706.8	361.0	321.7	286.5	255.4	235.4	232.6	234.7	235.4
62.5°	5850.7	3954.5	726.9	358.9	328.6	277.5	238.1	217.4	212.6	211.9	210.5
65°	6104.0	3883.4	595.7	349.3	336.2	272.0	224.3	200.2	191.9	189.1	189.1
67.5°	5691.3	3285.0	448.0	336.2	331.3	266.4	211.2	185.7	176.0	170.5	170.5
69°	5303.3	2921.9	402.4	327.2	318.9	257.5	202.9	178.1	166.4	160.1	158.1
70°	5003.8	2672.0	383.1	319.6	307.2	247.1	196.7	172.6	159.5	152.5	151.2
72.5°	3993.2	2096.3	335.5	290.6	261.6	207.8	174.6	155.3	142.9	135.3	133.2
75°	2301.4	1136.2	278.2	252.6	210.5	161.5	147.7	135.3	125.6	118.7	116.7
77.5°	708.2	439.0	201.6	199.5	154.6	124.9	118.0	113.2	106.3	98.7	97.3
80°	298.2	223.6	136.7	134.6	102.8	87.0	84.9	84.2	81.5	75.2	73.2
82.5°	163.6	126.3	95.3	82.8	62.1	50.4	52.5	53.2	51.1	44.9	40.7
85°	80.1	69.0	46.2	37.3	28.3	17.9	17.3	20.7	19.3	13.8	15.2
87.5°	15.9	19.3	12.4	5.5	2.8	0.0	0.0	0.0	0.0	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)