

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: P451823

Luminaire Tested: **GALN-SA2D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451823
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-SA2D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 12895 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

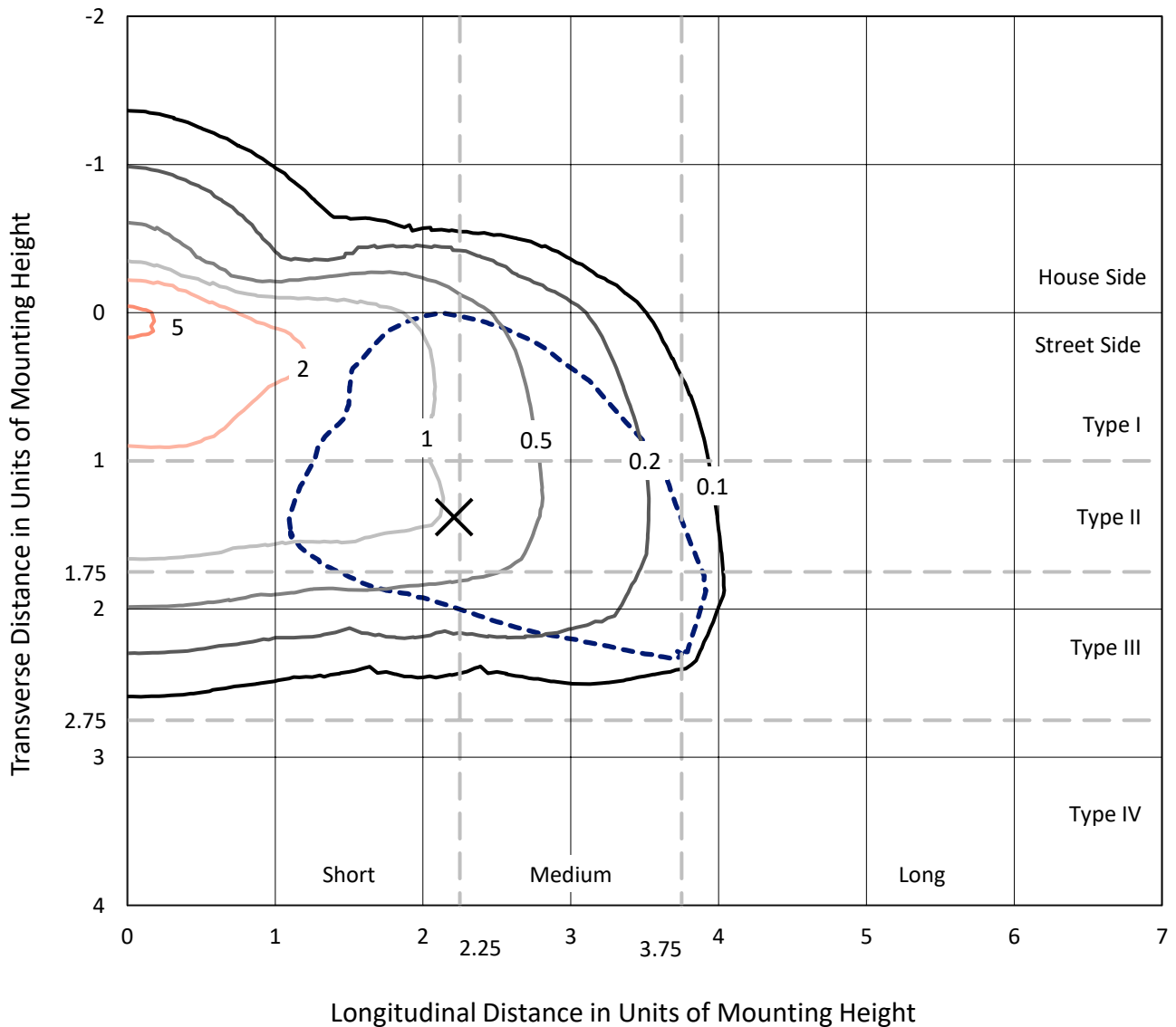
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

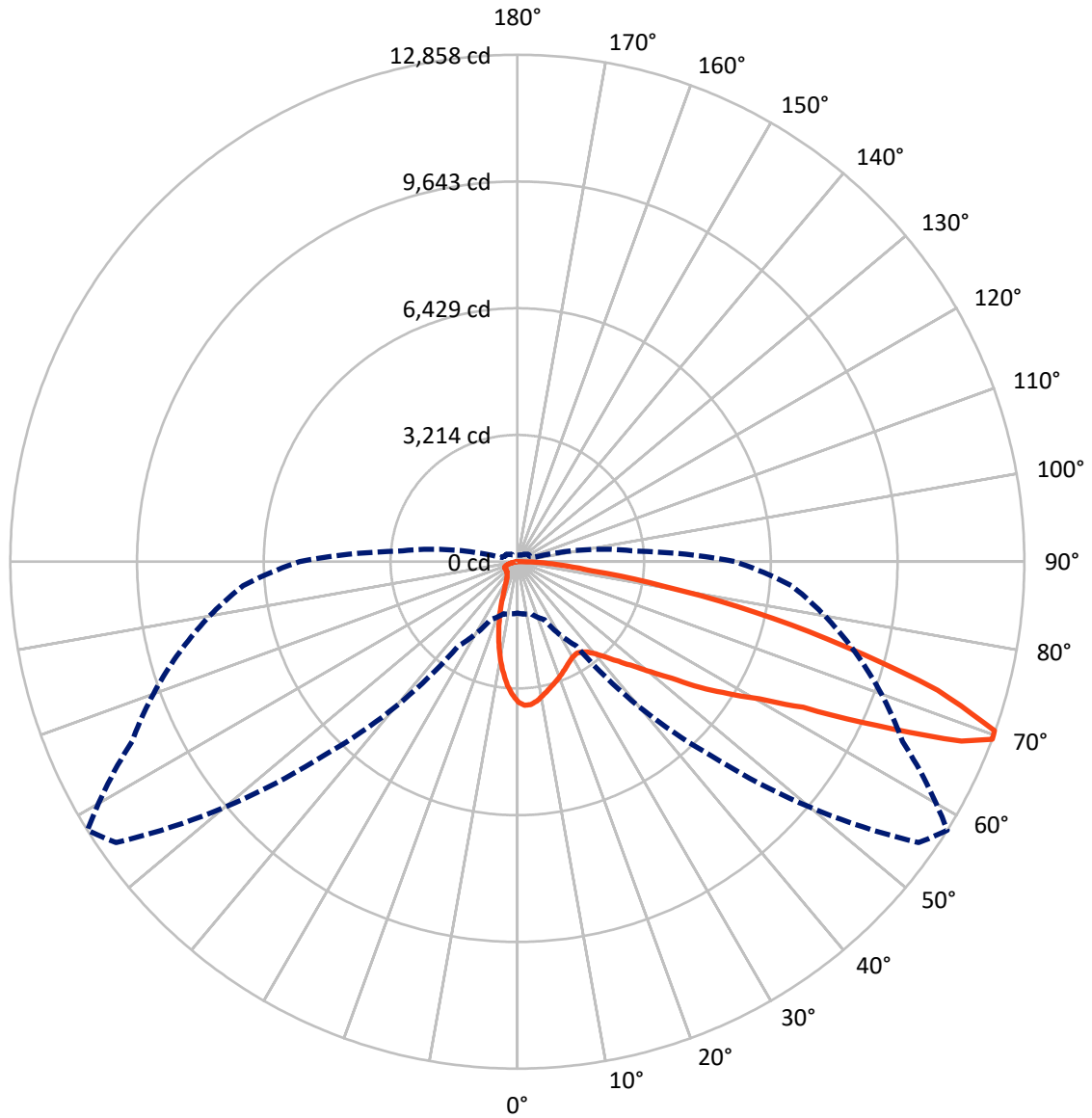
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1889.8	0.0	1889.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11005.2	0.0	11005.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	12895.0	0.0	12895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	2.3
10°-20°	664.5	5.2
20°-30°	858.5	6.7
30°-40°	1115.1	8.6
40°-50°	1621.2	12.6
50°-60°	2586.9	20.1
60°-70°	3455.7	26.8
70°-80°	1992.1	15.4
80°-90°	298.4	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°	12895.0	100.0
0°-180°	12895.0	100.0

Coefficient of Utilization



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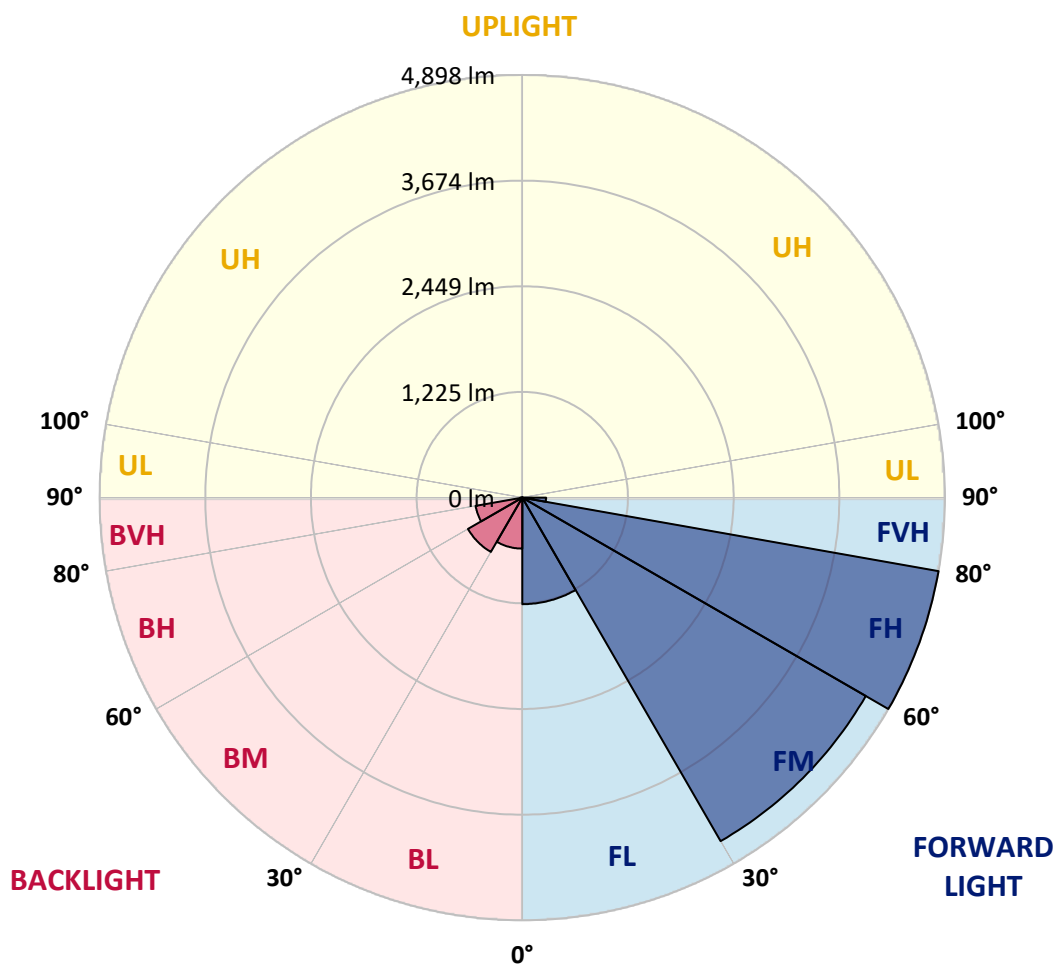
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.0	9.6			
FM	(30°-60°)	4596.4	35.6			
FH	(60°-80°)	4898.3	38.0			G2/5000
FVH	(80°-90°)	275.5	2.1			G3/500
BL	(0°-30°)	590.7	4.6	B2/1000		
BM	(30°-60°)	726.7	5.6	B1/1000		
BH	(60°-80°)	549.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.9	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°	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4
2.5°	3695.7	3705.8	3702.9	3699.3	3693.6	3677.8	3651.9	3647.6	3631.0	3595.8	3551.9
5°	3638.9	3647.6	3648.3	3653.3	3660.5	3657.6	3638.9	3636.8	3612.3	3564.9	3491.5
7.5°	3444.0	3455.5	3480.7	3508.8	3533.9	3557.7	3563.4	3567.0	3551.9	3497.3	3399.5
10°	3224.7	3236.2	3247.7	3289.4	3351.3	3410.2	3459.1	3465.6	3469.2	3418.9	3299.5
12.5°	2981.6	3005.4	3029.8	3091.7	3174.4	3267.1	3353.4	3367.1	3391.5	3353.4	3213.2
15°	2775.2	2799.7	2834.9	2890.3	2990.3	3124.0	3245.6	3267.8	3316.0	3296.6	3132.6
17.5°	2632.1	2640.7	2665.2	2728.5	2836.4	2977.3	3139.8	3184.4	3261.4	3256.3	3063.6
20°	2519.2	2530.0	2545.1	2583.9	2696.1	2845.0	3041.3	3098.8	3203.1	3220.4	2995.3
22.5°	2471.7	2479.7	2477.5	2498.4	2574.6	2724.2	2941.4	3009.7	3151.3	3195.9	2932.0
25°	2474.6	2481.8	2471.0	2466.0	2511.3	2617.7	2837.1	2924.1	3109.6	3179.4	2874.5
27.5°	2522.8	2527.8	2507.7	2487.6	2491.2	2551.6	2750.8	2847.1	3074.4	3186.6	2826.3
30°	2587.5	2596.9	2583.9	2559.5	2532.9	2535.7	2695.4	2790.3	3057.9	3211.8	2803.3
32.5°	2670.9	2679.6	2673.8	2654.4	2619.9	2581.8	2681.7	2769.5	3059.3	3262.8	2798.2
35°	2758.7	2775.9	2785.3	2783.9	2755.8	2689.6	2735.7	2808.3	3093.8	3348.4	2827.7
37.5°	2857.9	2872.3	2912.6	2938.5	2912.6	2835.6	2857.2	2907.6	3170.0	3472.1	2892.4
40°	2954.3	2975.9	3034.8	3115.4	3105.3	3037.7	3042.8	3075.8	3304.5	3656.2	3019.0
42.5°	3055.0	3080.9	3183.7	3303.1	3326.8	3274.3	3288.0	3317.5	3495.8	3911.5	3236.2
45°	3184.4	3215.4	3341.9	3490.8	3584.3	3551.9	3590.8	3605.1	3751.8	4243.7	3522.4
47.5°	3351.3	3387.2	3543.3	3728.8	3861.2	3890.6	3958.2	3949.6	4069.0	4637.1	3893.5
50°	3632.5	3652.6	3800.0	3989.2	4171.1	4304.2	4377.5	4391.2	4462.4	5019.7	4308.5
52.5°	3966.9	3984.8	4091.3	4256.7	4484.7	4766.6	4947.8	4903.2	4920.5	5485.7	4793.9
55°	4343.0	4373.2	4440.8	4550.8	4846.4	5261.4	5625.2	5636.0	5444.7	5931.6	5259.2
57.5°	4634.2	4685.3	4801.1	4957.9	5332.5	5811.5	6300.5	6307.7	6063.2	6407.7	5772.7
60°	4487.5	4547.9	4812.6	5194.5	5970.4	6771.6	7107.4	7066.4	6665.1	6949.9	6399.1
62.5°	3854.7	3865.5	4250.2	4847.1	6166.8	8056.0	8308.4	8135.1	7468.4	7637.4	7035.5
65°	2494.8	2565.2	2870.2	3706.5	5521.7	8768.7	10412.7	10012.1	8594.6	8417.7	7568.4
67.5°	1575.0	1557.0	1683.5	2116.5	3797.9	8140.9	12208.4	12145.1	10067.5	8910.4	7441.1
69°	1306.0	1326.1	1369.3	1622.4	2613.4	6950.7	12420.6	12857.8	10781.6	8871.5	6978.7
70°	1184.5	1193.8	1239.1	1438.3	2016.5	5821.6	12072.5	12838.4	11062.1	8709.0	6643.6
72.5°	939.9	939.2	1016.9	1196.7	1507.4	3323.2	9912.9	11146.2	10748.5	7952.4	5489.3
75°	714.1	725.6	811.2	1012.6	1388.7	1815.9	6917.6	8583.9	8584.6	6281.1	3425.3
77.5°	514.9	522.1	622.1	850.0	1308.1	1472.1	4607.6	6156.7	5787.8	2878.1	1076.6
80°	337.3	341.6	417.8	673.1	1179.4	1388.7	2732.1	3768.4	2729.9	763.7	356.0
82.5°	184.8	206.4	255.3	435.8	946.4	1283.0	1660.5	1907.2	1024.1	340.2	185.5
85°	92.8	98.5	143.8	254.6	618.5	1061.5	1156.4	1093.8	528.6	169.0	96.4
87.5°	27.3	34.5	59.7	98.5	251.0	553.0	643.6	577.5	203.5	61.1	20.1
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°	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4	3563.4
2.5°	3533.9	3521.0	3463.5	3411.7	3364.2	3313.9	3271.4	3234.0	3237.6	3238.4	3200.2
5°	3453.4	3423.9	3314.6	3212.5	3126.2	3016.9	2923.4	2863.0	2832.8	2792.5	2806.9
7.5°	3344.1	3287.3	3135.5	2965.8	2806.9	2665.2	2511.3	2405.6	2338.0	2272.5	2281.2
10°	3231.2	3139.8	2919.1	2694.7	2489.0	2262.5	2066.1	1897.9	1772.7	1726.0	1695.1
12.5°	3115.4	2995.3	2714.8	2416.4	2132.3	1861.2	1582.9	1402.4	1264.3	1190.9	1200.3
15°	3009.7	2863.7	2501.9	2138.1	1769.1	1446.2	1168.6	996.8	900.4	880.2	891.8
17.5°	2911.9	2720.6	2302.7	1867.7	1436.9	1084.5	878.1	781.0	742.2	731.4	730.7
20°	2811.2	2599.0	2079.1	1578.5	1119.7	840.7	720.6	675.3	668.1	672.4	673.1
22.5°	2709.1	2448.7	1849.0	1291.6	891.8	687.5	630.0	617.8	623.5	633.6	635.0
25°	2614.9	2316.4	1627.5	1039.9	712.0	604.1	576.0	576.0	589.0	604.1	604.8
27.5°	2537.2	2188.4	1406.7	825.6	596.2	543.7	534.3	539.4	557.3	568.9	569.6
30°	2473.2	2069.0	1198.1	661.6	524.3	495.5	493.3	502.0	514.9	525.7	526.4
32.5°	2425.0	1964.0	1003.2	555.9	474.6	458.8	458.1	464.6	471.8	474.6	477.5
35°	2406.3	1877.0	824.9	489.0	441.6	431.5	431.5	430.8	433.7	435.1	436.5
37.5°	2421.4	1810.1	686.8	445.9	417.1	409.9	405.6	401.3	399.9	399.9	400.6
40°	2485.4	1774.9	584.0	417.8	399.9	389.1	381.2	376.1	371.1	372.5	374.0
42.5°	2621.3	1781.4	514.2	399.1	384.7	369.6	358.1	352.4	348.8	353.1	352.4
45°	2837.8	1846.1	469.6	386.2	369.6	350.2	339.4	333.7	333.7	340.2	342.3
47.5°	3140.6	1969.8	445.9	376.1	358.1	335.1	324.3	320.0	321.5	332.3	333.0
50°	3510.2	2184.8	441.6	371.1	352.4	324.3	312.1	307.8	311.4	322.9	324.3
52.5°	3918.0	2461.7	462.4	371.8	347.4	317.9	302.0	295.6	299.2	308.5	311.4
55°	4401.2	2808.3	516.4	374.7	340.2	314.3	294.9	280.5	284.8	291.3	292.0
57.5°	4894.6	3245.6	611.3	375.4	334.4	307.8	282.6	263.9	263.9	268.2	270.4
60°	5497.2	3721.6	736.4	376.1	335.1	298.5	266.1	245.2	242.4	244.5	245.2
62.5°	6095.6	4120.1	757.3	374.0	342.3	289.1	248.1	226.5	221.5	220.8	219.3
65°	6359.5	4046.0	620.6	363.9	350.2	283.3	233.7	208.6	199.9	197.0	197.0
67.5°	5929.4	3422.5	466.7	350.2	345.2	277.6	220.1	193.5	183.4	177.6	177.6
69°	5525.3	3044.2	419.3	340.9	332.3	268.2	211.4	185.5	173.3	166.8	164.7
70°	5213.2	2783.9	399.1	333.0	320.0	257.5	205.0	179.8	166.1	158.9	157.5
72.5°	4160.3	2184.1	349.5	302.8	272.6	216.5	181.9	161.8	148.9	141.0	138.8
75°	2397.7	1183.7	289.8	263.2	219.3	168.3	153.9	141.0	130.9	123.7	121.5
77.5°	737.9	457.4	210.0	207.8	161.1	130.2	123.0	117.9	110.8	102.8	101.4
80°	310.7	233.0	142.4	140.2	107.2	90.6	88.5	87.7	84.9	78.4	76.2
82.5°	170.4	131.6	99.2	86.3	64.7	52.5	54.7	55.4	53.2	46.7	42.4
85°	83.4	71.9	48.2	38.8	29.5	18.7	18.0	21.6	20.1	14.4	15.8
87.5°	16.5	20.1	12.9	5.8	2.9	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)