

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: P452084

Luminaire Tested: **GALN-SA3A-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452084
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-SA3A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 12323 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

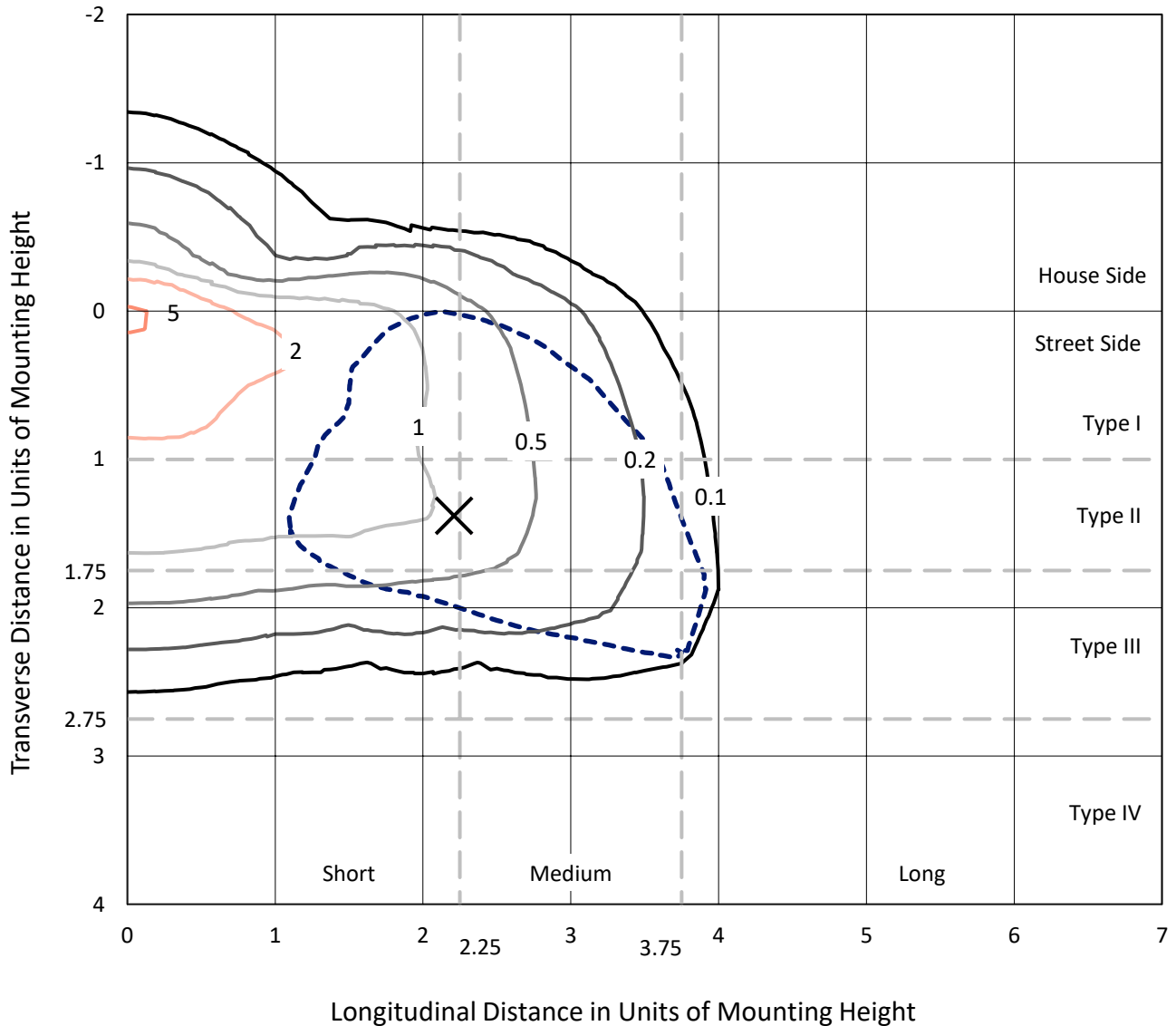
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

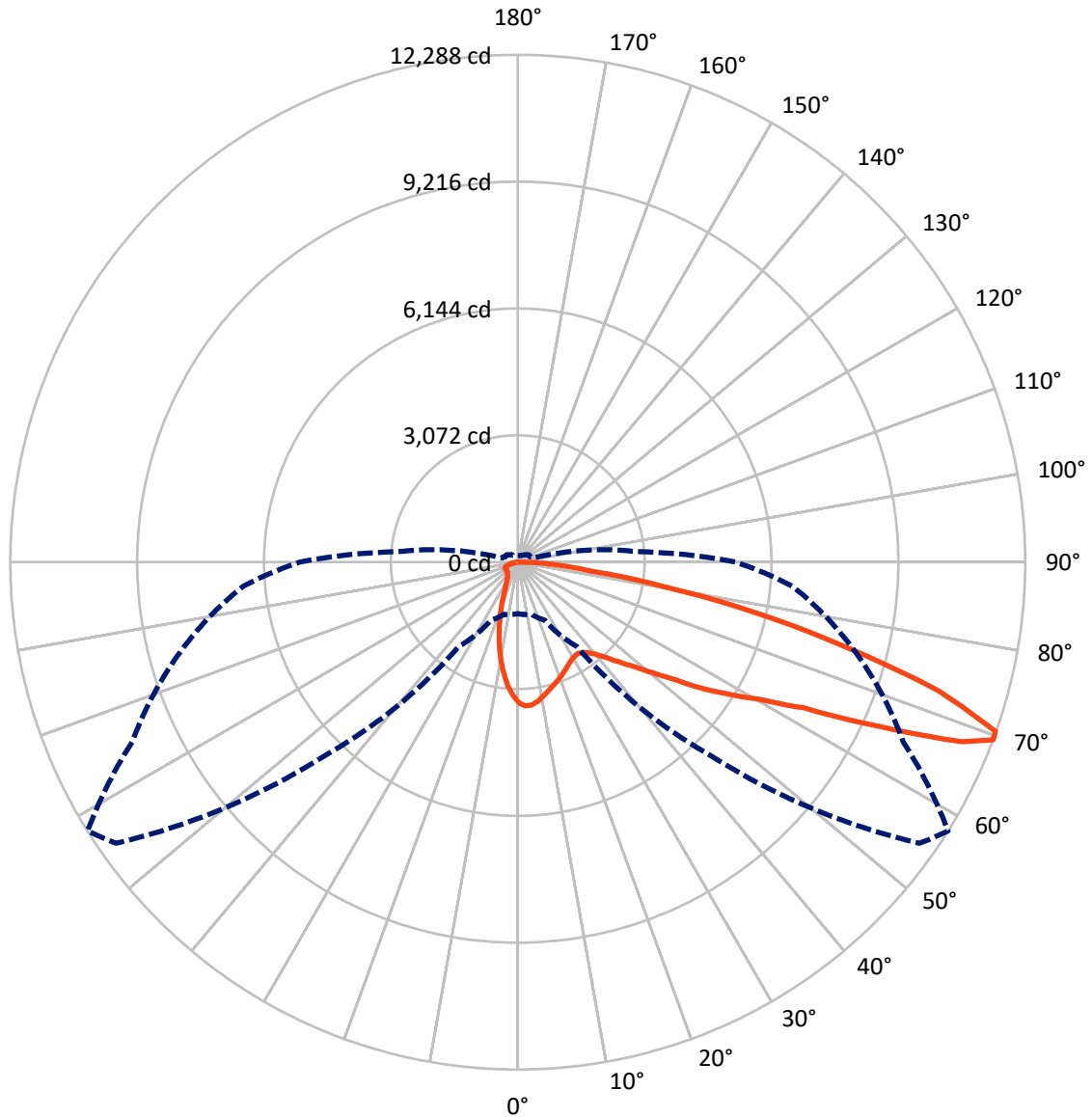
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1805.9	0.0	1805.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10517.1	0.0	10517.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	12323.0	0.0	12323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	2.3
10°-20°	635.0	5.2
20°-30°	820.5	6.7
30°-40°	1065.6	8.6
40°-50°	1549.3	12.6
50°-60°	2472.1	20.1
60°-70°	3302.4	26.8
70°-80°	1903.7	15.4
80°-90°	285.1	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°	12323.0	100.0
0°-180°	12323.0	100.0

Coefficient of Utilization



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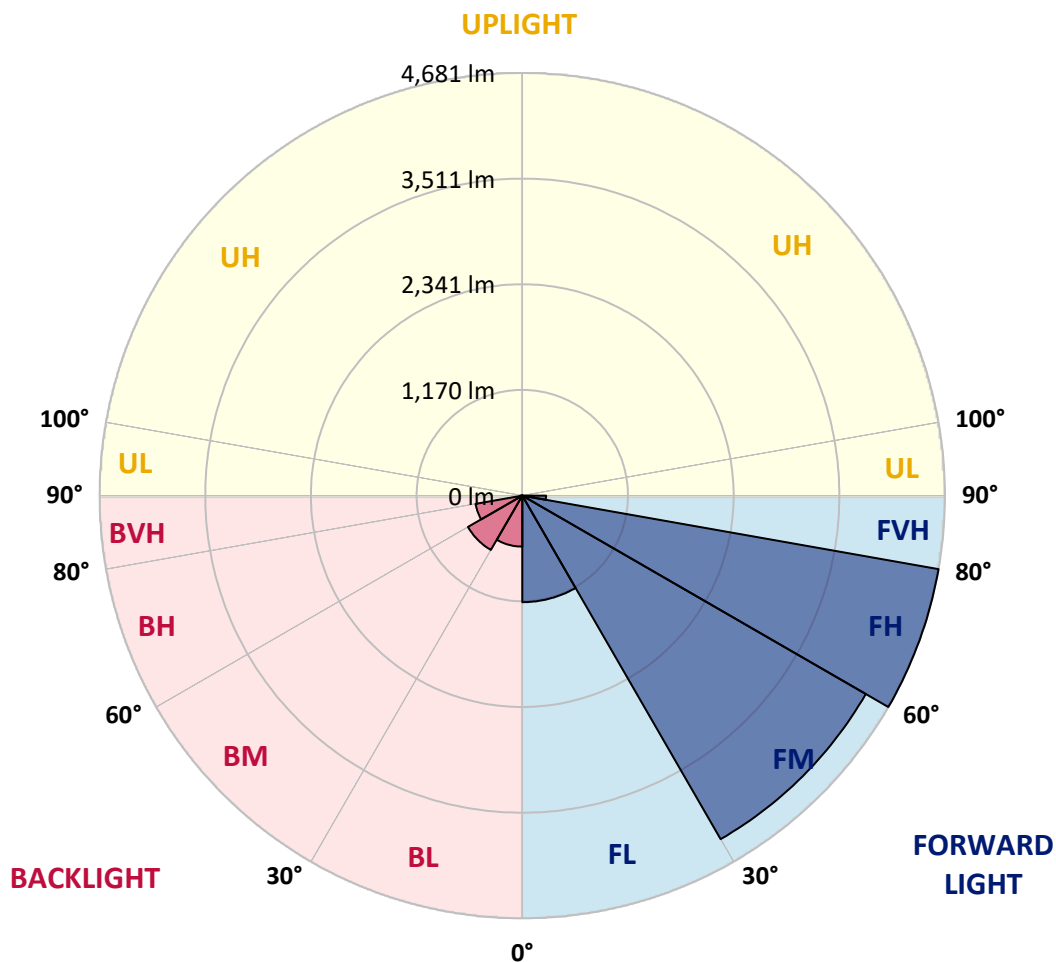
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1180.2	9.6			
FM	(30°-60°)	4392.5	35.6			
FH	(60°-80°)	4681.0	38.0			G2/5000
FVH	(80°-90°)	263.3	2.1			G3/500
BL	(0°-30°)	564.5	4.6	B2/1000		
BM	(30°-60°)	694.5	5.6	B1/1000		
BH	(60°-80°)	525.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.8	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°	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4
2.5°	3531.8	3541.4	3538.7	3535.2	3529.7	3514.6	3489.9	3485.8	3470.0	3436.3	3394.4
5°	3477.5	3485.8	3486.5	3491.3	3498.1	3495.4	3477.5	3475.5	3452.1	3406.7	3336.6
7.5°	3291.3	3302.3	3326.3	3353.1	3377.2	3399.9	3405.4	3408.8	3394.4	3342.1	3248.7
10°	3081.7	3092.7	3103.7	3143.5	3202.6	3259.0	3305.7	3311.9	3315.3	3267.2	3153.1
12.5°	2849.4	2872.0	2895.4	2954.5	3033.6	3122.2	3204.7	3217.7	3241.1	3204.7	3070.7
15°	2652.1	2675.5	2709.2	2762.1	2857.6	2985.4	3101.6	3122.9	3168.9	3150.4	2993.7
17.5°	2515.4	2523.6	2547.0	2607.5	2710.5	2845.2	3000.6	3043.2	3116.7	3111.9	2927.7
20°	2407.5	2417.8	2432.2	2469.3	2576.5	2718.8	2906.4	2961.4	3061.0	3077.5	2862.4
22.5°	2362.1	2369.7	2367.6	2387.5	2460.4	2603.3	2810.9	2876.2	3011.6	3054.2	2801.9
25°	2364.8	2371.7	2361.4	2356.6	2399.9	2501.6	2711.2	2794.4	2971.7	3038.4	2747.0
27.5°	2410.9	2415.7	2396.5	2377.2	2380.7	2438.4	2628.8	2720.8	2938.0	3045.2	2700.9
30°	2472.7	2481.7	2469.3	2445.9	2420.5	2423.3	2575.8	2666.6	2922.2	3069.3	2678.9
32.5°	2552.5	2560.7	2555.2	2536.7	2503.7	2467.3	2562.8	2646.6	2923.6	3118.1	2674.1
35°	2636.3	2652.8	2661.7	2660.4	2633.6	2570.3	2614.3	2683.7	2956.6	3199.9	2702.3
37.5°	2731.2	2744.9	2783.4	2808.1	2783.4	2709.9	2730.5	2778.6	3029.4	3318.1	2764.1
40°	2823.2	2843.9	2900.2	2977.2	2967.6	2903.0	2907.8	2939.4	3157.9	3494.0	2885.1
42.5°	2919.5	2944.2	3042.5	3156.6	3179.2	3129.1	3142.1	3170.3	3340.8	3738.0	3092.7
45°	3043.2	3072.7	3193.7	3335.9	3425.3	3394.4	3431.5	3445.2	3585.4	4055.5	3366.2
47.5°	3202.6	3237.0	3386.1	3563.4	3689.9	3718.1	3782.7	3774.4	3888.5	4431.4	3720.8
50°	3471.3	3490.6	3631.5	3812.2	3986.1	4113.2	4183.3	4196.4	4264.4	4797.1	4117.4
52.5°	3790.9	3808.1	3909.8	4067.9	4285.7	4555.1	4728.3	4685.7	4702.2	5242.4	4581.3
55°	4150.3	4179.2	4243.8	4349.0	4631.4	5028.0	5375.7	5386.0	5203.2	5668.5	5025.9
57.5°	4428.7	4477.5	4588.1	4737.9	5096.0	5553.7	6021.1	6027.9	5794.3	6123.5	5516.6
60°	4288.5	4346.2	4599.1	4964.1	5705.6	6471.2	6792.2	6753.0	6369.5	6641.6	6115.2
62.5°	3683.7	3694.0	4061.7	4632.1	5893.2	7698.6	7939.9	7774.2	7137.2	7298.7	6723.4
65°	2384.1	2451.4	2742.8	3542.1	5276.8	8379.7	9950.8	9568.0	8213.4	8044.3	7232.7
67.5°	1505.1	1487.9	1608.9	2022.6	3629.4	7779.7	11666.9	11606.4	9620.9	8515.1	7111.0
69°	1248.1	1267.3	1308.5	1550.5	2497.5	6642.3	11869.6	12287.5	10303.3	8478.0	6669.1
70°	1131.9	1140.8	1184.1	1374.5	1927.1	5563.3	11537.0	12268.9	10571.4	8322.7	6348.9
72.5°	898.2	897.6	971.8	1143.6	1440.5	3175.8	9473.1	10651.8	10271.7	7599.7	5245.8
75°	682.4	693.4	775.2	967.7	1327.1	1735.3	6610.7	8203.1	8203.8	6002.5	3273.4
77.5°	492.1	498.9	594.5	812.3	1250.1	1406.8	4403.3	5883.6	5531.0	2750.4	1028.8
80°	322.3	326.4	399.3	643.3	1127.1	1327.1	2610.9	3601.2	2608.8	729.9	340.2
82.5°	176.6	197.2	244.0	416.5	904.4	1226.1	1586.9	1822.6	978.7	325.1	177.3
85°	88.7	94.2	137.5	243.3	591.0	1014.4	1105.1	1045.3	505.1	161.5	92.1
87.5°	26.1	33.0	57.0	94.2	239.9	528.5	615.1	551.9	194.5	58.4	19.2
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°	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4	3405.4
2.5°	3377.2	3364.8	3309.8	3260.3	3215.0	3166.9	3126.3	3090.6	3094.0	3094.7	3058.3
5°	3300.2	3272.0	3167.6	3070.0	2987.5	2883.0	2793.7	2736.0	2707.1	2668.6	2682.4
7.5°	3195.7	3141.4	2996.4	2834.2	2682.4	2547.0	2399.9	2298.9	2234.3	2171.7	2180.0
10°	3087.8	3000.6	2789.6	2575.1	2378.6	2162.1	1974.5	1813.7	1694.1	1649.4	1619.9
12.5°	2977.2	2862.4	2594.4	2309.2	2037.7	1778.6	1512.7	1340.2	1208.2	1138.1	1147.0
15°	2876.2	2736.7	2391.0	2043.2	1690.7	1382.1	1116.8	952.5	860.4	841.2	852.2
17.5°	2782.7	2599.9	2200.6	1784.8	1373.1	1036.4	839.1	746.4	709.2	698.9	698.3
20°	2686.5	2483.7	1986.9	1508.5	1070.1	803.4	688.6	645.3	638.5	642.6	643.3
22.5°	2588.9	2340.1	1766.9	1234.3	852.2	657.0	602.0	590.4	595.9	605.5	606.8
25°	2498.9	2213.7	1555.3	993.8	680.4	577.3	550.5	550.5	562.9	577.3	578.0
27.5°	2424.6	2091.3	1344.3	789.0	569.7	519.6	510.6	515.4	532.6	543.6	544.3
30°	2363.5	1977.2	1145.0	632.3	501.0	473.5	471.5	479.7	492.1	502.4	503.1
32.5°	2317.4	1876.9	958.7	531.2	453.6	438.5	437.8	444.0	450.8	453.6	456.3
35°	2299.6	1793.7	788.3	467.3	422.0	412.4	412.4	411.7	414.4	415.8	417.2
37.5°	2314.0	1729.8	656.3	426.1	398.6	391.7	387.6	383.5	382.1	382.1	382.8
40°	2375.2	1696.1	558.1	399.3	382.1	371.8	364.2	359.4	354.6	356.0	357.4
42.5°	2505.0	1702.3	491.4	381.4	367.7	353.2	342.3	336.8	333.3	337.4	336.8
45°	2711.9	1764.2	448.8	369.1	353.2	334.7	324.4	318.9	318.9	325.1	327.1
47.5°	3001.2	1882.4	426.1	359.4	342.3	320.3	310.0	305.8	307.2	317.5	318.2
50°	3354.5	2087.9	422.0	354.6	336.8	310.0	298.3	294.1	297.6	308.6	310.0
52.5°	3744.2	2352.5	441.9	355.3	331.9	303.8	288.6	282.5	285.9	294.8	297.6
55°	4206.0	2683.7	493.5	358.1	325.1	300.3	281.8	268.0	272.2	278.3	279.0
57.5°	4677.5	3101.6	584.2	358.7	319.6	294.1	270.1	252.2	252.2	256.3	258.4
60°	5253.4	3556.6	703.8	359.4	320.3	285.2	254.3	234.4	231.6	233.7	234.4
62.5°	5825.2	3937.3	723.7	357.4	327.1	276.3	237.1	216.5	211.7	211.0	209.6
65°	6077.4	3866.5	593.1	347.8	334.7	270.8	223.4	199.3	191.1	188.3	188.3
67.5°	5666.4	3270.7	446.0	334.7	329.9	265.3	210.3	184.9	175.3	169.8	169.8
69°	5280.2	2909.2	400.7	325.8	317.5	256.3	202.1	177.3	165.6	159.4	157.4
70°	4981.9	2660.4	381.4	318.2	305.8	246.0	195.9	171.8	158.8	151.9	150.5
72.5°	3975.8	2087.2	334.0	289.3	260.5	206.9	173.9	154.6	142.3	134.7	132.6
75°	2291.3	1131.2	277.0	251.5	209.6	160.8	147.1	134.7	125.1	118.2	116.1
77.5°	705.1	437.1	200.7	198.6	153.9	124.4	117.5	112.7	105.8	98.3	96.9
80°	296.9	222.7	136.1	134.0	102.4	86.6	84.5	83.8	81.1	74.9	72.8
82.5°	162.9	125.8	94.8	82.5	61.9	50.2	52.2	52.9	50.9	44.7	40.5
85°	79.7	68.7	46.0	37.1	28.2	17.9	17.2	20.6	19.2	13.7	15.1
87.5°	15.8	19.2	12.4	5.5	2.7	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)