

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: P452981

Luminaire Tested: **GALN-SA4A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15102 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

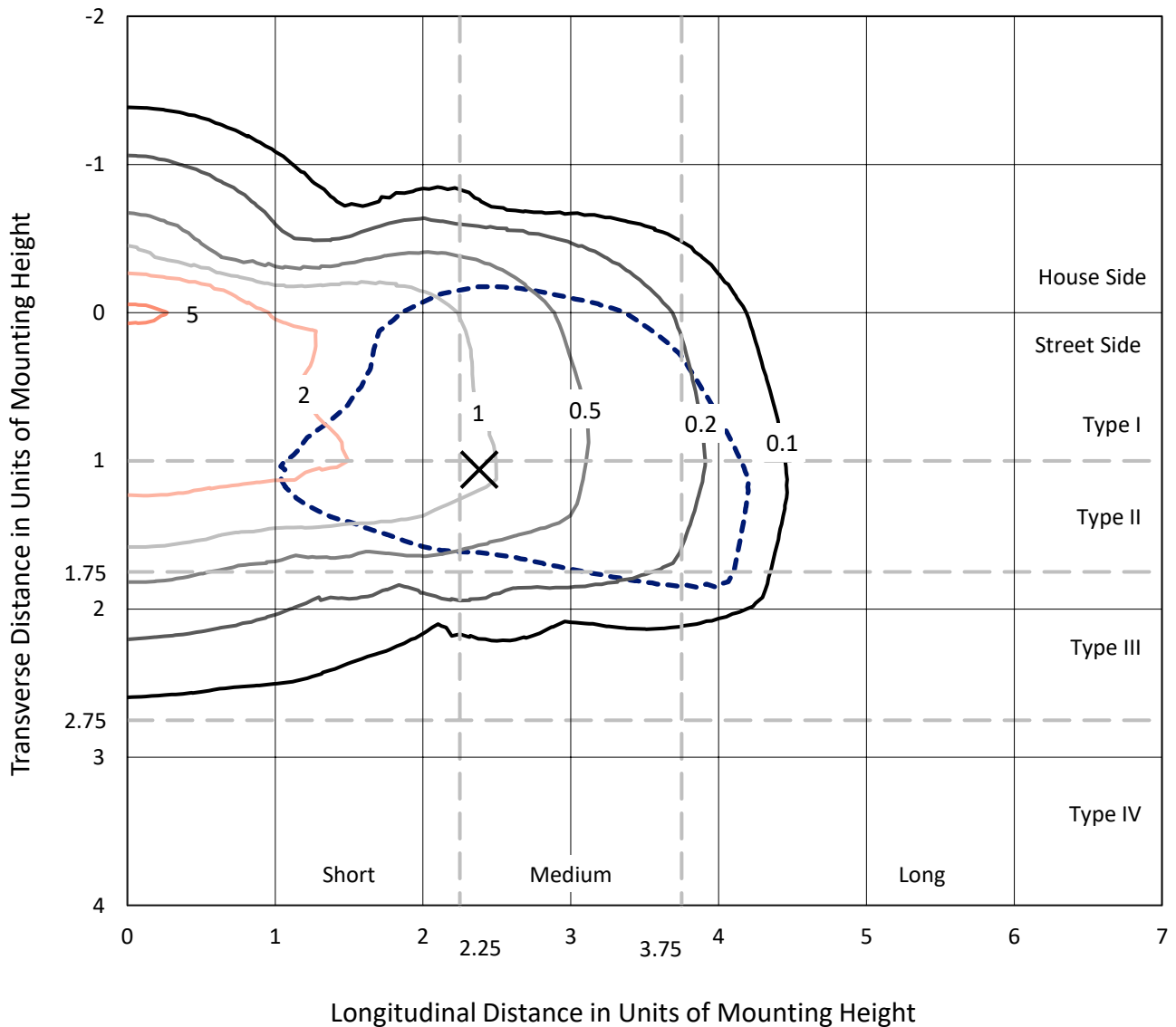
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

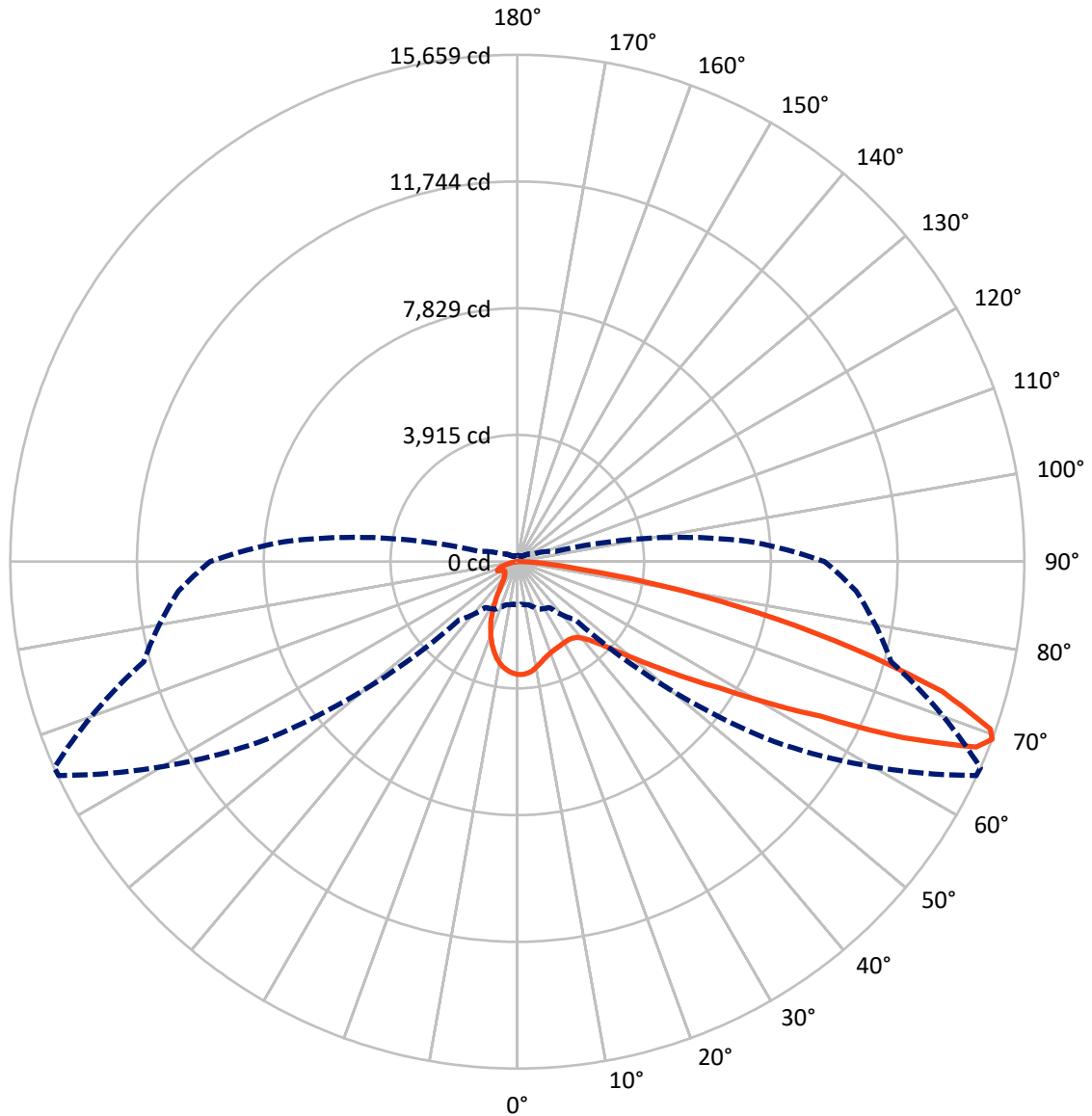
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2840.1	0.0	2840.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12261.9	0.0	12261.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	15102.0	0.0	15102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	2.0
10°-20°	718.3	4.8
20°-30°	977.9	6.5
30°-40°	1314.1	8.7
40°-50°	1962.2	13.0
50°-60°	3121.2	20.7
60°-70°	3838.9	25.4
70°-80°	2497.7	16.5
80°-90°	368.8	2.4
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°	15102.0	100.0
0°-180°	15102.0	100.0

Coefficient of Utilization



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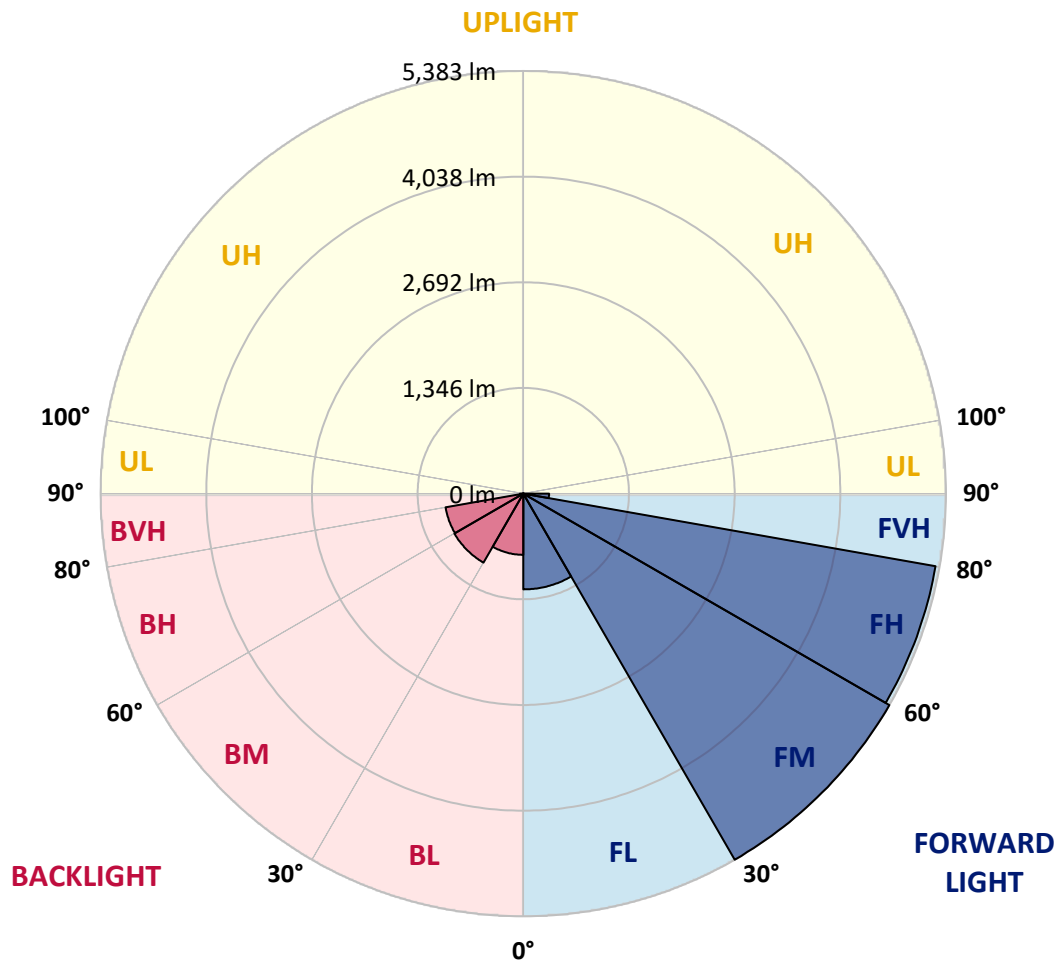
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1219.5	8.1			
FM	(30°-60°)	5383.4	35.6			
FH	(60°-80°)	5331.1	35.3			G3/7500
FVH	(80°-90°)	327.9	2.2			G3/500
BL	(0°-30°)	779.6	5.2	B2/1000		
BM	(30°-60°)	1014.1	6.7	B2/2500		
BH	(60°-80°)	1005.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	40.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5
2.5°	3365.4	3378.7	3393.8	3410.5	3442.3	3459.9	3472.4	3486.6	3488.3	3495.8	3490.0
5°	3117.0	3132.9	3155.5	3187.2	3234.9	3309.3	3386.3	3449.0	3456.5	3491.7	3501.7
7.5°	2909.6	2918.8	2937.2	2988.2	3055.9	3138.7	3250.8	3377.9	3396.3	3479.9	3509.2
10°	2740.6	2749.8	2771.6	2824.3	2891.2	2994.9	3117.8	3285.1	3300.1	3444.0	3510.9
12.5°	2614.3	2622.7	2646.1	2698.0	2774.9	2871.9	3007.4	3184.7	3206.5	3396.3	3495.0
15°	2518.2	2534.1	2553.3	2595.9	2677.1	2770.7	2902.0	3092.7	3110.3	3346.1	3484.1
17.5°	2477.2	2484.7	2498.1	2537.4	2596.8	2688.8	2820.9	3020.8	3041.7	3311.0	3481.6
20°	2478.9	2486.4	2488.9	2510.6	2553.3	2632.7	2763.2	2963.9	2989.0	3280.1	3485.8
22.5°	2535.7	2536.6	2527.4	2519.8	2536.6	2602.6	2722.2	2921.3	2950.6	3266.7	3489.1
25°	2623.5	2638.6	2625.2	2590.1	2559.2	2590.9	2706.3	2897.9	2925.5	3247.4	3485.0
27.5°	2765.7	2768.2	2757.4	2709.7	2629.4	2606.0	2699.7	2880.3	2903.7	3233.2	3464.1
30°	2956.4	2948.9	2938.8	2886.2	2759.9	2663.7	2713.9	2864.4	2888.7	3212.3	3439.0
32.5°	3149.6	3173.0	3163.8	3101.9	2938.0	2775.8	2759.9	2862.7	2882.8	3196.4	3411.4
35°	3354.5	3365.4	3408.9	3377.1	3209.0	2957.2	2846.0	2888.7	2904.6	3197.3	3392.1
37.5°	3515.1	3544.3	3646.4	3674.0	3515.9	3197.3	2985.7	2962.3	2969.0	3238.2	3399.7
40°	3709.1	3759.3	3890.6	4003.5	3899.8	3509.2	3223.2	3098.6	3106.9	3336.9	3449.0
42.5°	3955.0	3990.1	4166.6	4319.6	4302.9	3921.5	3510.9	3321.9	3326.1	3533.5	3587.0
45°	4242.7	4292.9	4491.1	4721.0	4760.4	4388.2	3926.5	3659.8	3657.2	3838.7	3844.6
47.5°	4610.7	4641.6	4838.1	5089.0	5247.9	4974.5	4430.8	4144.8	4118.1	4283.7	4236.0
50°	4949.4	4997.9	5146.7	5421.1	5816.6	5661.1	5094.0	4773.7	4711.0	4865.7	4785.4
52.5°	5091.5	5142.6	5268.0	5608.4	6304.2	6549.3	5936.2	5523.9	5419.4	5538.1	5508.9
55°	4844.8	4910.9	5028.0	5442.0	6518.3	7573.8	7072.0	6391.2	6315.1	6264.1	6272.4
57.5°	4181.6	4244.3	4402.4	4859.0	6262.4	8317.2	8693.6	7506.0	7342.9	7107.9	7148.1
60°	3183.0	3222.4	3304.3	3810.3	5503.8	8510.4	10535.2	8915.2	8811.5	7948.4	7976.9
62.5°	2260.6	2304.9	2361.8	2614.3	4029.4	7966.0	11977.0	10883.1	10512.6	8819.0	8791.4
65°	1835.7	1805.6	1874.2	1992.1	2364.3	6173.7	12301.5	13614.5	13104.4	9965.6	9582.6
67.5°	1509.6	1477.8	1545.5	1755.4	1798.1	3583.6	11132.3	15387.5	15285.5	11212.6	10386.3
69°	1336.4	1319.7	1379.1	1618.3	1726.2	2544.9	9698.0	15634.2	15658.5	11947.7	10510.1
70°	1204.3	1211.0	1268.7	1548.9	1693.6	2098.3	8288.8	15293.9	15499.6	12314.9	10376.3
72.5°	886.5	900.7	981.0	1282.9	1662.6	1780.5	4932.6	13358.6	13722.4	12336.6	9492.3
75°	619.7	613.0	684.1	966.0	1570.6	1764.6	2897.0	10331.1	10743.4	10663.1	7976.0
77.5°	405.6	416.5	473.4	682.4	1321.4	1751.3	1888.4	7329.5	7597.2	7131.3	4717.7
80°	286.0	285.2	317.0	465.8	980.2	1682.7	1546.4	4619.9	4552.1	2802.5	1399.2
82.5°	163.9	175.6	212.4	327.8	655.7	1481.1	1422.6	2209.6	2017.2	798.7	472.5
85°	91.2	95.3	126.3	198.2	383.0	1115.7	1241.9	1005.3	948.4	333.7	203.2
87.5°	29.3	31.8	52.7	100.4	174.0	526.9	703.3	464.2	428.2	120.4	82.0
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°	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5	3487.5
2.5°	3492.5	3502.5	3475.8	3449.8	3426.4	3393.8	3364.5	3340.3	3323.6	3321.0	3312.7
5°	3504.2	3505.0	3454.0	3385.4	3318.5	3244.9	3168.8	3114.5	3063.5	3035.0	3020.8
7.5°	3512.6	3505.0	3413.0	3301.8	3173.0	3039.2	2905.4	2798.3	2715.5	2682.9	2695.5
10°	3509.2	3485.8	3351.2	3173.0	2985.7	2785.8	2593.4	2442.9	2304.9	2233.8	2235.5
12.5°	3490.8	3452.3	3259.2	3028.3	2753.2	2485.6	2191.2	1987.9	1828.2	1733.7	1704.4
15°	3474.9	3408.0	3151.3	2831.8	2489.7	2107.5	1748.8	1497.9	1364.0	1289.6	1288.8
17.5°	3458.2	3365.4	3033.3	2623.5	2187.0	1695.2	1318.9	1127.4	1064.6	1072.2	1059.6
20°	3440.6	3315.2	2910.4	2391.9	1818.2	1264.5	987.7	909.9	927.5	961.8	966.8
22.5°	3420.6	3261.7	2778.3	2136.8	1430.1	951.7	801.2	789.5	834.7	888.2	895.7
25°	3389.6	3194.8	2611.8	1870.0	1103.1	766.9	701.7	710.0	754.4	799.5	804.5
27.5°	3346.1	3112.0	2443.7	1537.2	828.8	658.2	641.5	652.3	674.1	701.7	708.4
30°	3287.6	3018.3	2250.5	1249.5	664.0	603.8	597.1	603.0	615.5	627.2	630.6
32.5°	3229.0	2928.0	2055.7	956.8	592.1	567.9	561.2	561.2	561.2	562.8	563.7
35°	3174.7	2842.7	1846.6	745.2	554.5	539.4	530.2	520.2	518.5	512.7	512.7
37.5°	3144.6	2764.9	1624.1	623.9	526.9	516.0	503.5	486.7	477.5	478.4	476.7
40°	3150.4	2713.9	1421.8	555.3	504.3	492.6	473.4	454.1	448.3	448.3	446.6
42.5°	3216.5	2697.1	1227.7	519.4	482.6	469.2	444.9	427.4	424.0	423.2	424.9
45°	3368.7	2738.1	1053.8	495.9	464.2	444.1	419.8	403.9	400.6	400.6	399.8
47.5°	3665.6	2871.1	929.2	480.9	450.8	424.9	399.8	383.9	378.0	376.3	376.3
50°	4127.3	3159.6	836.3	467.5	434.1	407.3	381.4	363.0	353.8	352.9	352.1
52.5°	4768.7	3609.6	800.4	457.5	415.7	388.9	360.5	342.9	331.2	328.7	327.0
55°	5518.9	4237.7	849.7	449.9	396.4	368.0	338.7	320.3	309.4	304.4	303.6
57.5°	6387.8	4992.0	1037.0	439.9	378.9	345.4	317.0	298.6	286.9	281.0	279.3
60°	7168.1	5767.3	1364.0	434.1	363.8	321.1	291.9	275.2	264.3	258.4	257.6
62.5°	8025.4	6506.6	1754.6	449.9	357.1	297.7	268.5	253.4	244.2	238.4	238.4
65°	8941.1	7246.7	2013.0	503.5	367.1	279.3	243.4	230.8	222.5	218.3	217.4
67.5°	9558.3	7502.7	1658.4	558.7	392.2	259.3	219.1	209.1	204.1	199.9	199.9
69°	9491.4	7179.0	1223.5	572.9	399.8	249.2	205.7	198.2	191.5	189.8	188.2
70°	9279.9	6810.2	1025.3	563.7	393.9	240.0	197.4	188.2	182.3	180.6	179.8
72.5°	8265.4	5906.1	763.6	490.1	335.4	208.2	174.8	166.4	161.4	158.9	158.9
75°	6867.1	4827.3	596.3	389.7	262.6	175.6	149.7	143.0	138.8	137.2	136.3
77.5°	3848.8	2695.5	428.2	305.3	199.0	142.2	125.4	119.6	115.4	113.7	113.7
80°	1072.2	770.3	251.7	201.6	135.5	107.9	99.5	95.3	89.5	85.3	87.8
82.5°	403.9	333.7	143.8	121.3	86.1	71.9	69.4	66.1	63.6	57.7	57.7
85°	196.5	162.2	92.0	64.4	47.7	37.6	36.0	34.3	32.6	28.4	29.3
87.5°	67.7	71.9	40.1	23.4	14.2	9.2	7.5	4.2	4.2	4.2	4.2
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)