

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: STREETWORKS

Report Number: P268432

Luminaire Tested: **GAN-AF-04-LED-U-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17279 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

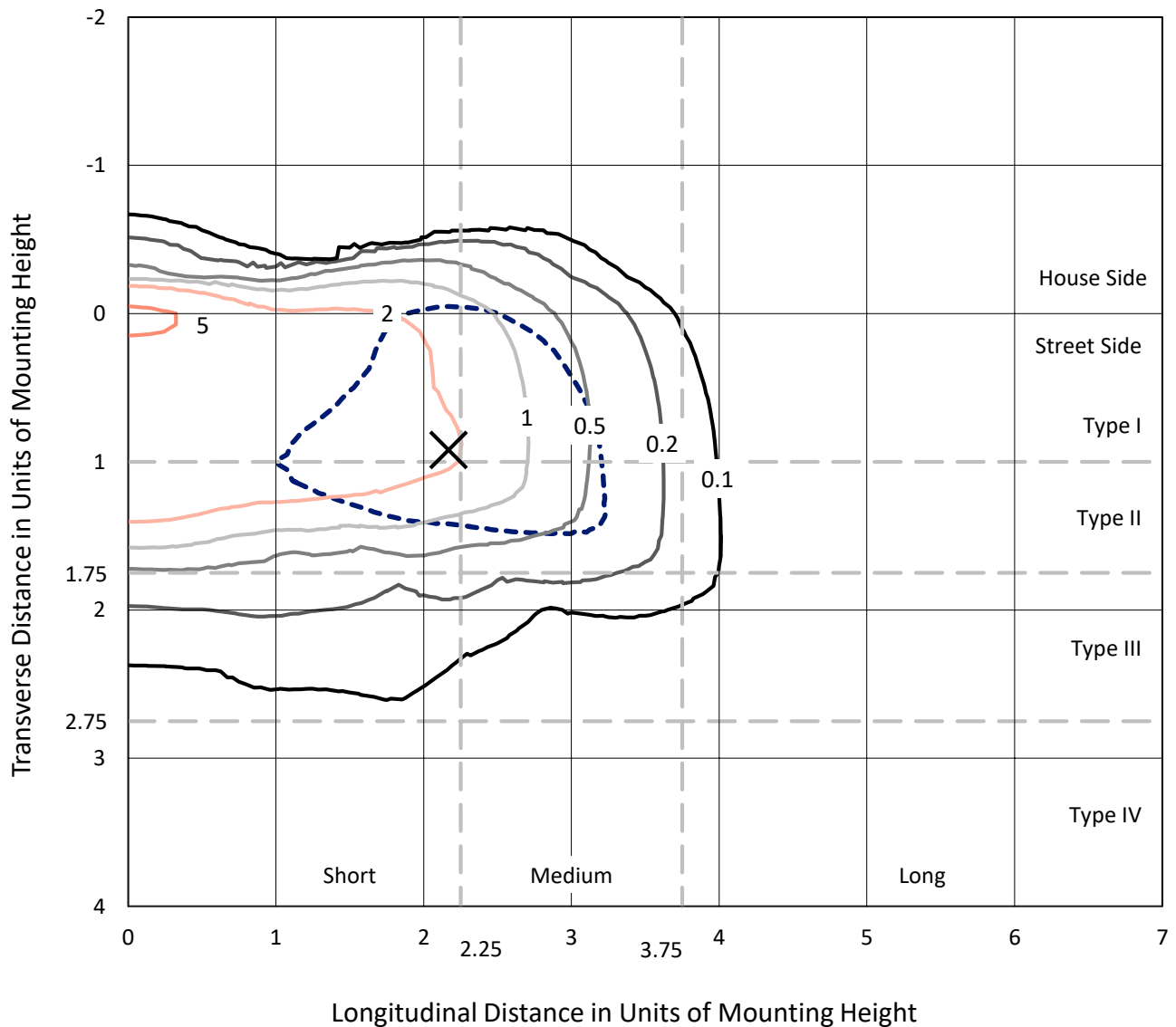
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

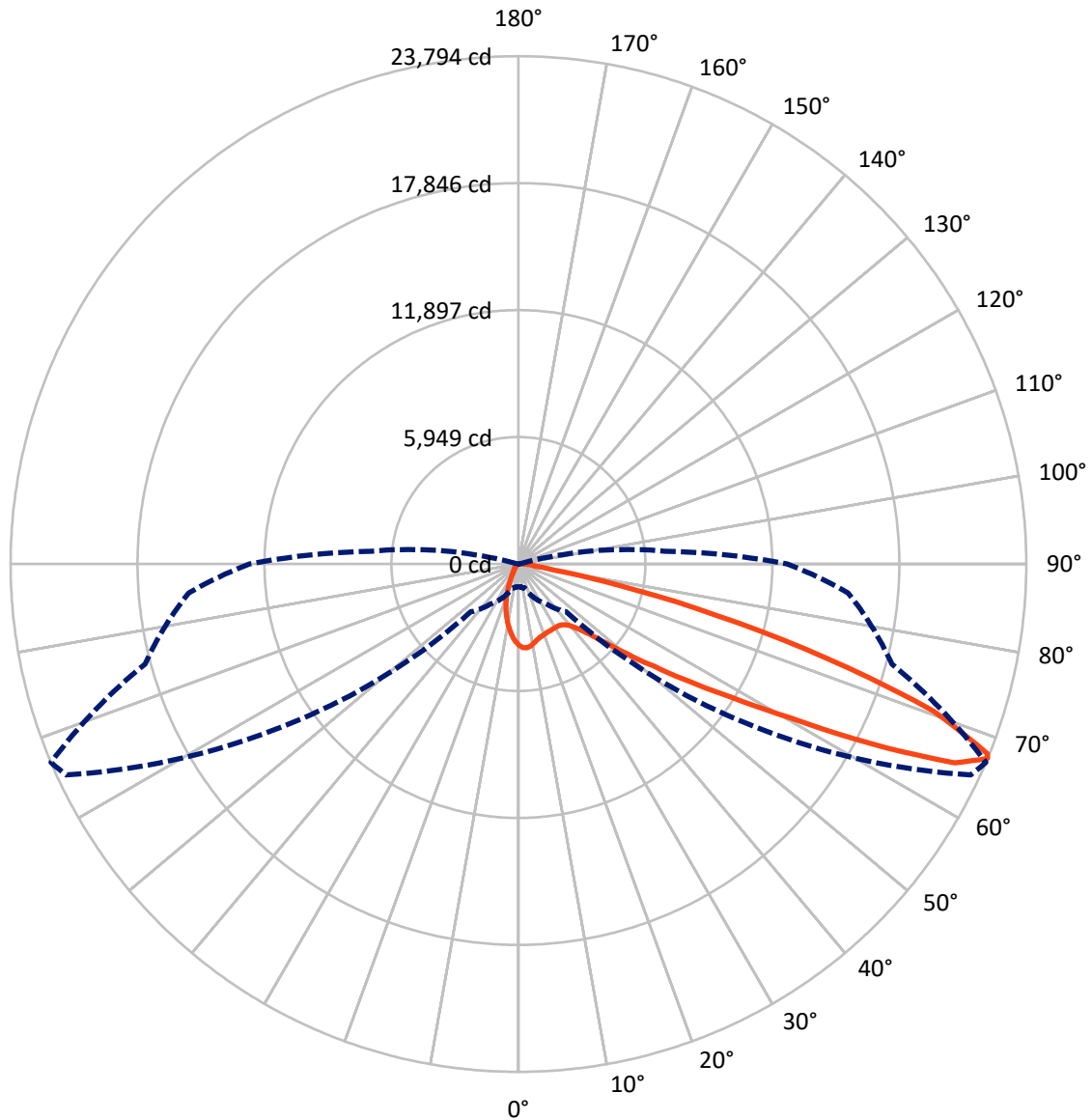
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1794.1	0.0	1794.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15484.9	0.0	15484.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	17279.0	0.0	17279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.8
10°-20°	659.9	3.8
20°-30°	959.5	5.6
30°-40°	1496.8	8.7
40°-50°	2651.6	15.3
50°-60°	4195.9	24.3
60°-70°	4805.8	27.8
70°-80°	1993.4	11.5
80°-90°	205.9	1.2
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°	17279.0	100.0
0°-180°	17279.0	100.0

Coefficient of Utilization



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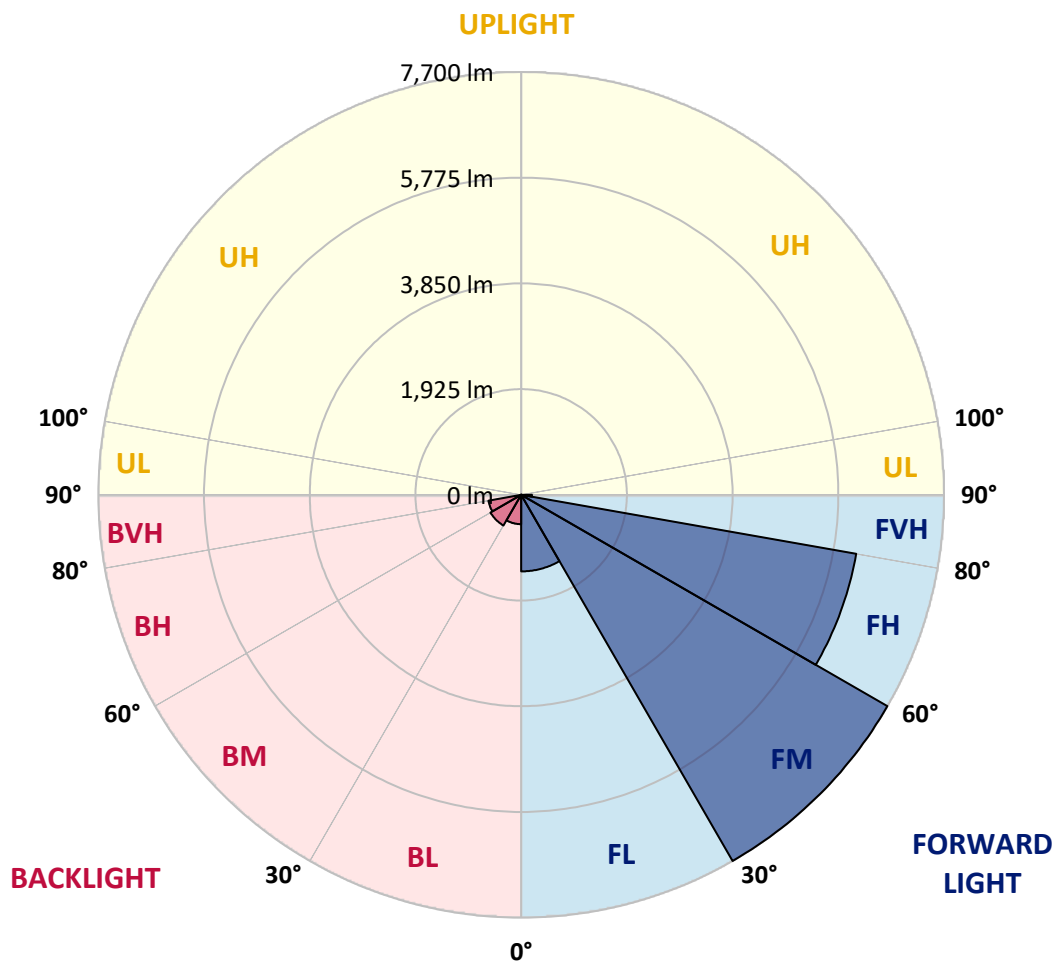
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.2	8.1			
FM	(30°-60°)	7699.6	44.6			
FH	(60°-80°)	6194.6	35.9			G3/7500
FVH	(80°-90°)	196.6	1.1			G2/225
BL	(0°-30°)	535.4	3.1	B2/1000		
BM	(30°-60°)	644.8	3.7	B1/1000		
BH	(60°-80°)	604.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7
2.5°	3939.6	3947.7	3946.8	3952.7	3966.8	3967.9	3953.8	3926.5	3920.6	3885.2	3823.7
5°	3633.3	3656.5	3670.6	3728.1	3792.6	3870.1	3928.6	3949.8	3946.8	3921.6	3828.8
7.5°	3283.6	3306.8	3322.9	3390.5	3476.0	3609.1	3761.3	3886.2	3897.3	3924.5	3824.8
10°	3050.7	3054.7	3077.0	3141.5	3231.2	3367.1	3548.7	3767.3	3800.5	3900.4	3814.7
12.5°	2859.2	2862.3	2891.6	2961.1	3056.8	3193.8	3384.4	3637.2	3688.7	3870.1	3812.6
15°	2723.2	2734.4	2760.5	2833.1	2934.9	3070.9	3266.3	3541.6	3603.0	3858.9	3830.8
17.5°	2677.8	2690.0	2698.0	2750.4	2843.1	2976.2	3176.8	3479.0	3548.7	3865.0	3866.0
20°	2725.2	2734.4	2716.1	2729.2	2786.7	2905.6	3101.0	3425.6	3508.3	3872.1	3911.4
22.5°	2901.5	2905.6	2856.3	2798.8	2788.7	2854.3	3041.8	3383.3	3471.9	3891.3	3964.8
25°	3204.0	3196.9	3116.2	2992.3	2875.4	2845.1	3006.4	3357.1	3453.9	3911.4	4020.3
27.5°	3568.7	3578.8	3467.9	3287.5	3064.8	2905.6	3001.3	3346.0	3445.8	3925.6	4068.7
30°	4012.2	4026.4	3899.4	3672.6	3353.2	3054.7	3047.7	3344.0	3440.8	3916.5	4072.6
32.5°	4464.8	4481.9	4382.1	4148.4	3738.0	3304.8	3152.5	3366.2	3450.8	3885.2	4049.5
35°	4938.4	4962.6	4896.1	4695.5	4260.1	3665.5	3336.9	3433.7	3498.2	3882.3	4026.4
37.5°	5592.5	5614.6	5489.7	5277.1	4892.1	4149.4	3633.3	3560.7	3610.1	3930.5	4032.4
40°	6569.1	6566.2	6243.6	5918.0	5586.5	4764.2	4049.5	3790.5	3815.7	4076.7	4107.0
42.5°	7633.3	7628.3	7151.6	6656.8	6357.5	5521.0	4596.7	4187.5	4170.4	4345.8	4300.5
45°	8453.8	8452.8	8063.7	7506.3	7285.8	6389.7	5304.3	4739.8	4713.6	4783.3	4657.3
47.5°	8803.5	8809.6	8614.0	8221.9	8314.7	7564.8	6196.1	5540.0	5500.9	5472.6	5281.0
50°	8531.5	8543.5	8559.6	8483.1	9069.6	9144.1	7392.5	6667.8	6648.7	6522.8	6223.5
52.5°	7642.5	7704.0	7893.4	8136.3	9331.7	10659.9	9268.2	8068.8	7966.0	7832.0	7502.4
55°	6144.9	6212.4	6572.1	7161.7	8941.5	11655.7	11896.6	9874.9	9703.5	9303.3	8827.7
57.5°	4066.6	4171.5	4693.6	5443.4	7808.7	11815.9	14518.9	12381.3	11784.8	10689.2	10153.1
60°	2240.5	2341.3	2907.6	3586.9	5639.9	11023.8	16282.7	15644.7	14590.5	12238.1	11762.5
62.5°	1379.7	1434.1	1852.5	2484.4	3382.3	8700.8	16647.6	19745.6	18525.1	14232.7	13706.7
65°	1098.5	1121.8	1326.3	2030.8	2424.9	5175.2	15469.4	22871.9	22464.9	16647.6	15447.3
67°	1066.3	1075.5	1172.1	1743.6	2285.7	3172.8	12959.8	23380.9	23794.1	18108.9	15501.6
67.5°	1073.4	1083.4	1175.2	1663.9	2281.8	2915.7	12095.0	23180.4	23702.5	18224.9	15260.8
70°	1035.0	1066.3	1345.5	1662.9	2169.9	2422.9	7243.4	20084.2	20627.5	16933.8	12948.8
72.5°	366.9	368.8	581.6	1345.5	2359.4	2449.0	3637.2	14723.6	15125.8	12953.7	9335.6
75°	217.7	185.4	193.6	382.9	2254.6	2378.5	2098.4	9408.2	9558.3	7422.8	4727.8
77.5°	150.1	131.1	135.0	169.3	858.7	2345.3	1667.0	4906.2	4745.9	2603.3	1006.8
80°	85.7	75.5	80.6	148.1	312.4	2188.0	1572.3	1989.4	1696.2	441.4	278.1
82.5°	45.4	38.3	46.4	121.9	217.7	1363.5	1575.3	961.5	761.9	149.2	189.5
85°	16.1	13.0	22.2	83.6	145.2	418.3	1460.4	808.2	634.9	72.6	144.1
87.5°	3.1	3.1	9.1	34.2	58.5	128.0	863.7	479.8	321.6	43.4	98.8
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°	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7	3810.7
2.5°	3798.6	3755.3	3696.7	3625.2	3540.6	3466.0	3410.5	3353.2	3340.9	3320.9	3317.8
5°	3773.4	3698.9	3553.7	3387.4	3210.0	3049.7	2919.8	2803.8	2752.4	2708.1	2703.0
7.5°	3736.1	3624.2	3377.3	3109.3	2832.0	2580.1	2366.4	2215.2	2076.2	2009.7	1999.5
10°	3692.8	3532.4	3178.7	2806.8	2423.8	2068.1	1750.6	1484.5	1323.4	1227.5	1215.4
12.5°	3652.4	3442.8	2976.2	2493.3	1984.4	1508.8	1100.6	846.7	677.2	608.7	600.6
15°	3633.3	3370.3	2786.7	2172.9	1524.9	960.5	601.7	465.6	410.2	394.0	393.1
17.5°	3631.3	3308.7	2601.2	1841.3	1068.4	558.3	392.0	357.7	346.7	342.7	342.7
20°	3630.2	3250.2	2415.8	1497.7	678.3	371.9	326.5	318.4	310.5	305.3	305.3
22.5°	3641.3	3197.8	2222.2	1147.0	427.4	301.3	287.3	279.2	269.1	262.0	261.0
25°	3652.4	3157.5	2024.8	816.4	309.3	262.0	247.9	236.9	222.7	213.6	212.7
27.5°	3654.5	3107.1	1813.0	546.3	259.0	228.8	210.7	193.6	177.3	168.3	167.4
30°	3624.2	3022.4	1578.3	368.8	228.8	198.5	174.4	156.2	141.2	134.0	134.0
32.5°	3564.7	2917.8	1320.2	278.1	203.6	170.3	144.1	127.0	116.9	113.8	112.8
35°	3511.4	2804.8	1055.1	235.9	182.4	144.1	117.9	106.8	100.8	99.8	98.8
37.5°	3480.0	2714.0	806.3	213.6	162.2	120.9	99.8	91.6	88.8	86.6	87.7
40°	3504.3	2638.5	595.7	195.6	142.1	100.8	84.7	80.6	77.7	76.5	76.5
42.5°	3610.1	2625.4	442.4	179.4	123.0	83.6	73.7	70.5	68.5	67.6	68.5
45°	3888.3	2706.1	343.7	164.3	103.8	70.5	62.5	61.4	60.5	60.5	60.5
47.5°	4306.6	2872.3	286.2	147.1	86.6	60.5	54.4	53.4	52.5	53.4	53.4
50°	5015.0	3176.8	255.9	130.1	71.5	51.5	46.4	46.4	46.4	46.4	47.4
52.5°	6092.5	3775.3	235.9	112.8	58.5	43.4	39.3	39.3	40.3	40.3	41.3
55°	7292.7	4569.6	217.7	95.8	49.3	36.3	32.2	33.2	34.2	35.3	35.3
57.5°	8595.0	5449.4	202.6	78.6	42.3	29.3	27.2	28.2	29.3	31.3	31.3
60°	10166.1	6401.9	180.4	61.4	35.3	23.1	21.2	23.1	26.2	28.2	29.3
62.5°	11891.6	7323.1	152.3	48.4	29.3	18.1	17.2	21.2	25.2	27.2	28.2
65°	13070.7	7612.2	116.9	39.3	22.2	13.0	14.2	19.1	24.2	27.2	27.2
67°	12593.0	6901.7	95.8	33.2	18.1	10.2	13.0	19.1	24.2	26.2	27.2
67.5°	12261.4	6623.6	91.6	32.2	17.2	10.2	13.0	19.1	24.2	27.2	27.2
70°	9976.7	4975.7	76.5	24.2	14.2	9.1	11.0	18.1	23.1	26.2	26.2
72.5°	6932.0	3067.9	68.5	17.2	12.0	8.1	10.2	17.2	22.2	25.2	26.2
75°	3295.6	1110.7	58.5	13.0	11.0	7.0	9.1	17.2	22.2	25.2	25.2
77.5°	672.2	258.1	47.4	11.0	9.1	7.0	8.1	16.1	21.2	24.2	24.2
80°	220.8	99.8	35.3	10.2	9.1	7.0	8.1	15.1	21.2	23.1	24.2
82.5°	159.2	50.3	23.1	10.2	9.1	7.0	7.0	15.1	20.1	23.1	23.1
85°	121.9	35.3	15.1	10.2	9.1	7.0	7.0	14.2	19.1	22.2	22.2
87.5°	80.6	14.2	12.0	10.2	9.1	7.0	7.0	14.2	18.1	21.2	22.2
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)