

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: P191061

Luminaire Tested: **GAN-AF-03-LED-U-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191061
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-03-LED-U-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 16891 lumens
Efficiency: N/A
Efficacy: 88.4 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

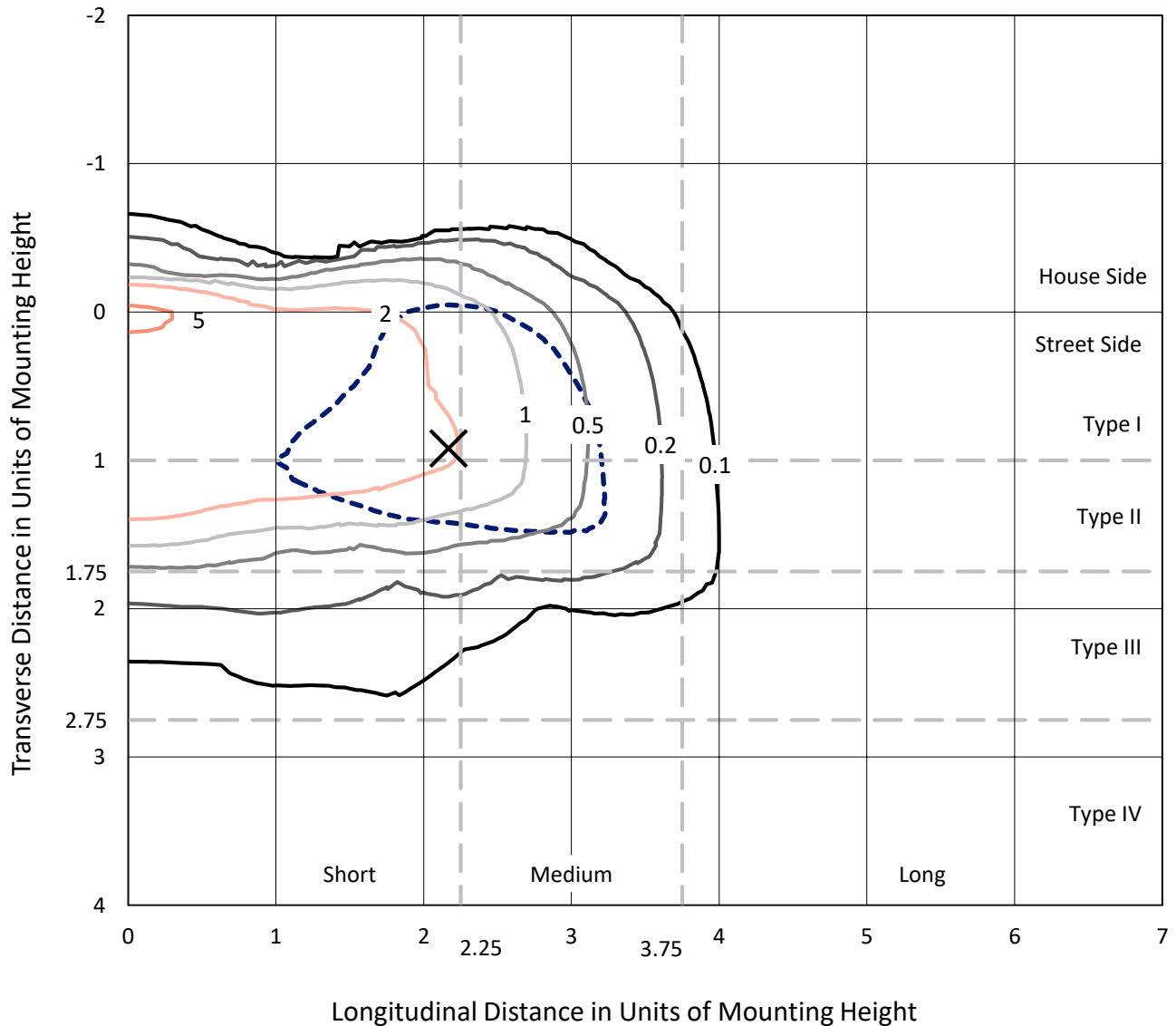
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

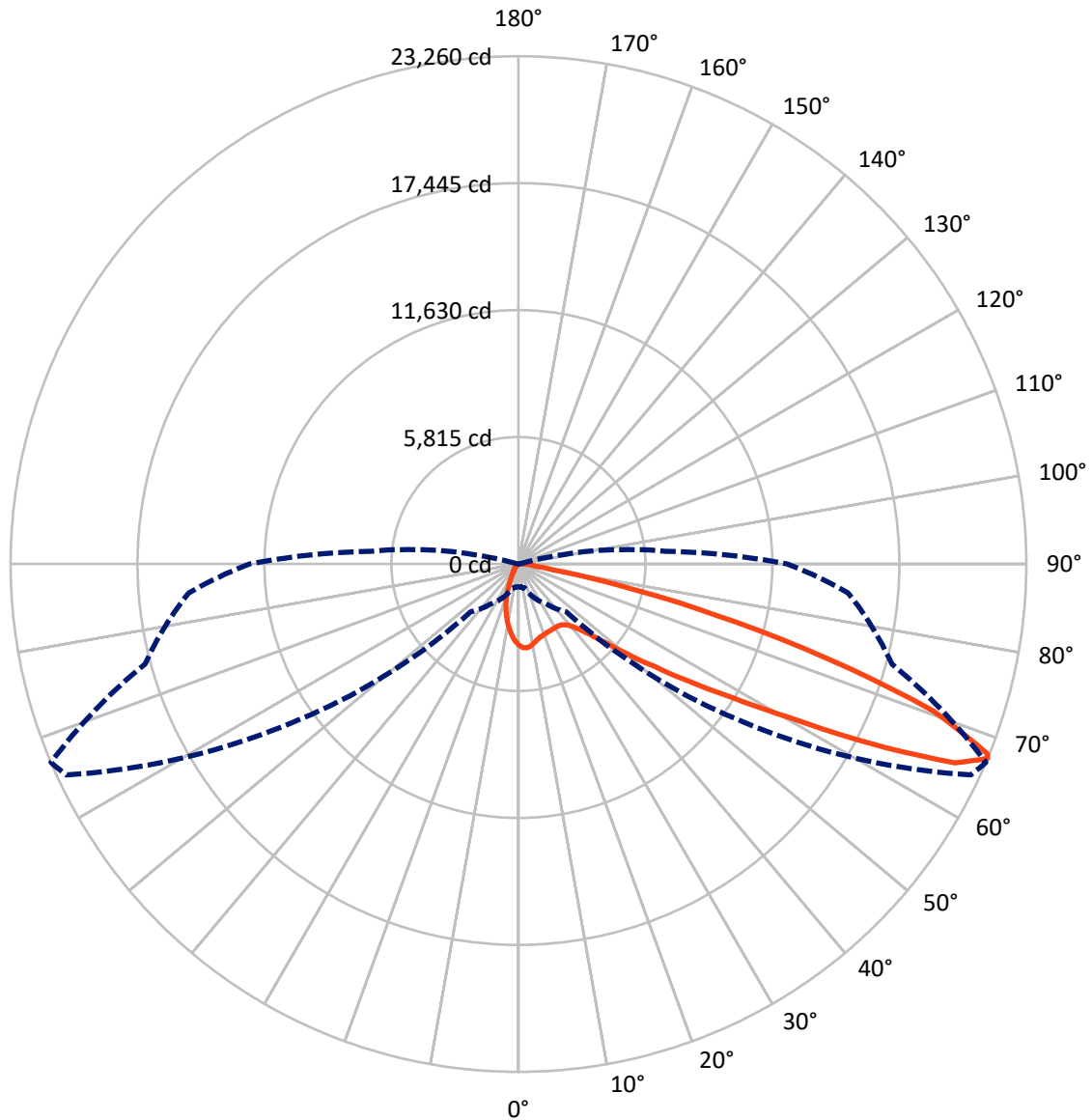
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1753.8	0.0	1753.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15137.2	0.0	15137.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	16891.0	0.0	16891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.8
10°-20°	645.1	3.8
20°-30°	937.9	5.6
30°-40°	1463.2	8.7
40°-50°	2592.0	15.3
50°-60°	4101.7	24.3
60°-70°	4697.9	27.8
70°-80°	1948.7	11.5
80°-90°	201.3	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°	16891.0	100.0
0°-180°	16891.0	100.0

Coefficient of Utilization



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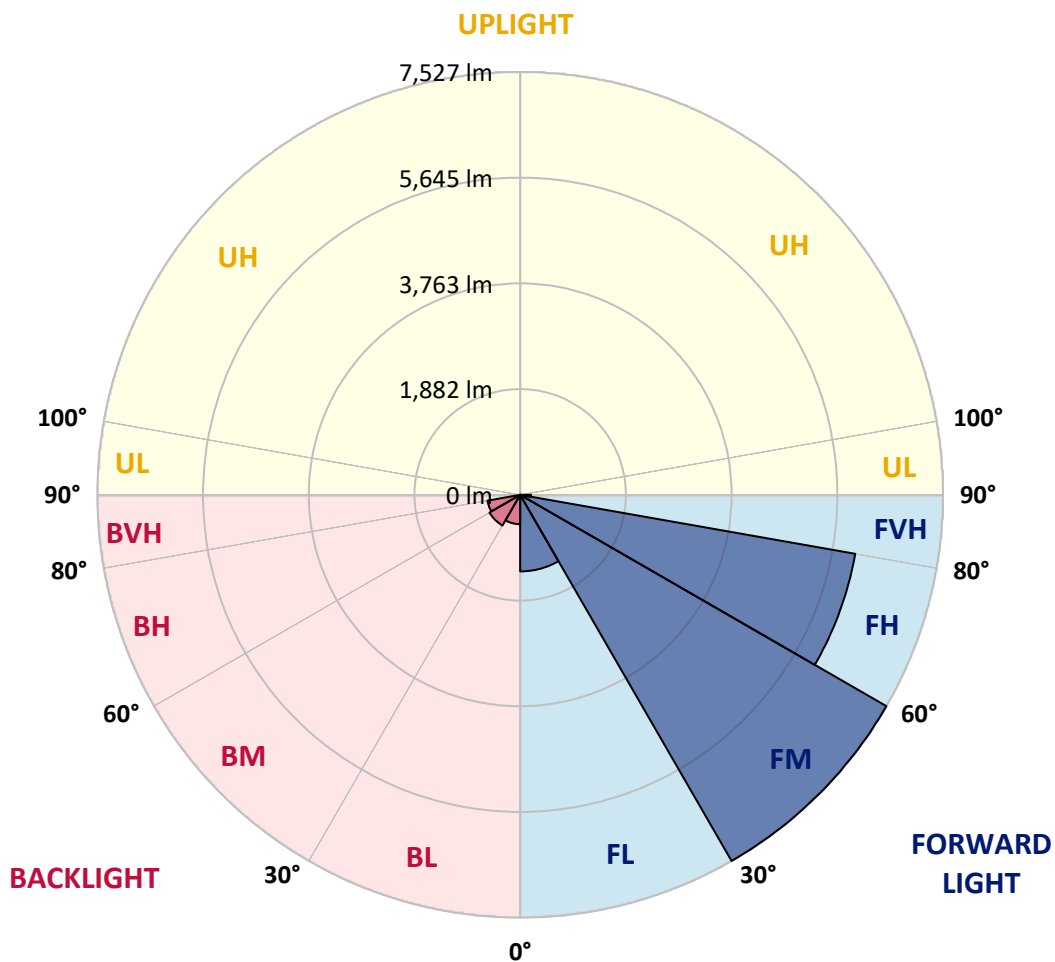
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.8	8.1			
FM	(30°-60°)	7526.7	44.6			
FH	(60°-80°)	6055.5	35.9			G3/7500
FVH	(80°-90°)	192.2	1.1			G2/225
BL	(0°-30°)	523.3	3.1	B2/1000		
BM	(30°-60°)	630.3	3.7	B1/1000		
BH	(60°-80°)	591.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.1	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°	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1
2.5°	3851.2	3859.1	3858.1	3864.0	3877.8	3878.8	3865.0	3838.4	3832.5	3798.0	3737.9
5°	3551.7	3574.4	3588.1	3644.3	3707.4	3783.2	3840.4	3861.0	3858.1	3833.4	3742.8
7.5°	3209.8	3232.5	3248.3	3314.3	3398.0	3528.1	3676.8	3798.9	3809.8	3836.4	3738.9
10°	2982.2	2986.2	3007.9	3070.9	3158.6	3291.5	3468.9	3682.7	3715.3	3812.7	3729.1
12.5°	2795.0	2798.0	2826.6	2894.5	2988.1	3122.1	3308.3	3555.7	3605.9	3783.2	3727.0
15°	2662.0	2672.9	2698.4	2769.4	2869.0	3002.0	3193.0	3462.1	3522.1	3772.3	3744.8
17.5°	2617.7	2629.5	2637.4	2688.6	2779.3	2909.4	3105.4	3400.9	3468.9	3778.3	3779.3
20°	2664.0	2672.9	2655.2	2668.0	2724.1	2840.3	3031.5	3348.7	3429.5	3785.2	3823.6
22.5°	2836.4	2840.3	2792.0	2735.9	2726.1	2790.1	2973.4	3307.3	3394.0	3803.9	3875.9
25°	3132.0	3125.1	3046.2	2925.1	2810.8	2781.2	2938.8	3281.7	3376.4	3823.6	3930.0
27.5°	3488.7	3498.5	3390.1	3213.8	2996.0	2840.3	2933.9	3270.9	3368.5	3837.4	3977.3
30°	3922.1	3935.9	3811.8	3590.1	3277.8	2986.2	2979.2	3268.9	3363.5	3828.5	3981.2
32.5°	4364.5	4381.2	4283.7	4055.1	3654.2	3230.5	3081.7	3290.6	3373.4	3798.0	3958.6
35°	4827.5	4851.1	4786.2	4590.1	4164.5	3583.2	3262.0	3356.6	3419.6	3795.0	3935.9
37.5°	5467.0	5488.6	5366.4	5158.5	4782.2	4056.1	3551.7	3480.8	3529.0	3842.3	3941.8
40°	6421.6	6418.6	6103.3	5785.2	5461.0	4657.1	3958.6	3705.3	3730.0	3985.2	4014.8
42.5°	7462.0	7457.1	6991.1	6507.3	6214.7	5397.0	4493.5	4093.5	4076.8	4248.2	4203.9
45°	8263.9	8263.0	7882.7	7337.8	7122.1	6246.2	5185.1	4633.5	4607.8	4675.8	4552.6
47.5°	8605.8	8611.7	8420.6	8037.3	8128.0	7395.0	6057.1	5415.7	5377.2	5349.7	5162.5
50°	8339.8	8351.7	8367.4	8292.6	8865.9	8938.9	7226.5	6518.1	6499.4	6376.3	6083.7
52.5°	7470.8	7531.0	7716.2	7953.6	9122.1	10420.6	9060.0	7887.6	7787.1	7656.1	7333.9
55°	6006.9	6072.8	6424.5	7000.9	8740.8	11393.9	11629.4	9653.1	9485.6	9094.4	8629.5
57.5°	3975.3	4077.8	4588.1	5321.1	7633.4	11550.6	14192.9	12103.3	11520.1	10449.1	9925.0
60°	2190.1	2288.6	2842.4	3506.4	5513.2	10776.3	15917.0	15293.4	14262.9	11963.4	11498.4
62.5°	1348.8	1402.0	1810.8	2428.6	3306.4	8505.3	16273.7	19302.3	18109.2	13913.2	13398.8
65°	1073.9	1096.5	1296.5	1985.2	2370.4	5059.1	15122.0	22358.3	21960.3	16273.7	15100.3
67°	1042.4	1051.2	1145.8	1704.4	2234.4	3101.5	12668.8	22855.9	23259.9	17702.3	15153.5
67.5°	1049.2	1059.1	1148.8	1626.6	2230.5	2850.2	11823.5	22659.9	23170.1	17815.6	14918.1
70°	1011.8	1042.4	1315.2	1625.6	2121.2	2368.4	7080.7	19633.3	20164.3	16553.5	12658.0
72.5°	358.6	360.6	568.5	1315.2	2306.3	2394.0	3555.7	14392.9	14786.0	12662.9	9126.1
75°	212.8	181.3	189.1	374.4	2203.9	2325.1	2051.2	9196.9	9343.7	7256.1	4621.6
77.5°	146.8	128.1	132.1	165.5	839.4	2292.5	1629.6	4796.0	4639.4	2544.8	984.2
80°	83.8	73.9	78.8	144.8	305.5	2138.9	1536.9	1944.8	1658.1	431.5	271.9
82.5°	44.3	37.4	45.3	119.2	212.8	1333.0	1539.8	939.9	744.8	145.8	185.3
85°	15.8	12.8	21.7	81.7	141.9	408.9	1427.5	790.1	620.7	70.9	140.9
87.5°	3.0	3.0	8.9	33.5	57.2	125.1	844.3	468.9	314.3	42.4	96.6
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°	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1	3725.1
2.5°	3713.2	3670.9	3613.8	3543.8	3461.1	3388.1	3334.0	3277.8	3266.0	3246.2	3243.3
5°	3688.7	3615.7	3473.8	3311.3	3137.9	2981.3	2854.1	2740.9	2690.6	2647.3	2642.4
7.5°	3652.1	3542.8	3301.5	3039.4	2768.4	2522.2	2313.3	2165.5	2029.5	1964.5	1954.7
10°	3609.8	3453.2	3107.3	2743.9	2369.5	2021.7	1711.3	1451.3	1293.6	1200.0	1188.2
12.5°	3570.4	3365.5	2909.4	2437.4	1939.9	1474.9	1075.8	827.6	662.1	595.1	587.2
15°	3551.7	3294.5	2724.1	2124.2	1490.6	938.9	588.2	455.2	401.0	385.2	384.2
17.5°	3549.7	3234.5	2542.9	1800.0	1044.3	545.8	383.2	349.7	338.9	335.0	335.0
20°	3548.7	3177.3	2361.6	1464.0	663.1	363.6	319.2	311.3	303.4	298.5	298.5
22.5°	3559.6	3126.0	2172.3	1121.2	417.8	294.6	280.8	272.9	263.0	256.1	255.1
25°	3570.4	3086.7	1979.3	798.0	302.5	256.1	242.3	231.5	217.7	208.9	207.9
27.5°	3572.3	3037.4	1772.4	534.0	253.2	223.6	205.9	189.1	173.4	164.5	163.6
30°	3542.8	2954.7	1542.8	360.6	223.6	194.1	170.4	152.7	137.9	131.0	131.0
32.5°	3484.7	2852.2	1290.7	271.9	199.0	166.5	140.9	124.2	114.3	111.3	110.4
35°	3432.5	2741.8	1031.5	230.6	178.3	140.9	115.3	104.4	98.5	97.5	96.6
37.5°	3401.9	2653.1	788.2	208.9	158.7	118.3	97.5	89.6	86.7	84.7	85.7
40°	3425.6	2579.3	582.3	191.1	138.9	98.5	82.8	78.8	75.9	74.9	74.9
42.5°	3529.0	2566.5	432.5	175.3	120.2	81.7	71.9	68.9	67.0	66.0	67.0
45°	3801.0	2645.2	335.9	160.6	101.5	68.9	61.1	60.0	59.1	59.1	59.1
47.5°	4209.9	2807.9	279.8	143.8	84.7	59.1	53.2	52.2	51.2	52.2	52.2
50°	4902.4	3105.4	250.2	127.1	70.0	50.2	45.3	45.3	45.3	45.3	46.3
52.5°	5955.6	3690.6	230.6	110.4	57.2	42.4	38.5	38.5	39.4	39.4	40.4
55°	7128.9	4466.9	212.8	93.6	48.3	35.5	31.5	32.5	33.5	34.5	34.5
57.5°	8401.9	5327.0	198.0	76.8	41.4	28.5	26.6	27.6	28.5	30.6	30.6
60°	9937.9	6258.1	176.4	60.0	34.5	22.7	20.7	22.7	25.6	27.6	28.5
62.5°	11624.5	7158.5	148.7	47.3	28.5	17.7	16.8	20.7	24.7	26.6	27.6
65°	12777.2	7441.3	114.3	38.5	21.7	12.8	13.8	18.7	23.6	26.6	26.6
67°	12310.2	6746.8	93.6	32.5	17.7	9.8	12.8	18.7	23.6	25.6	26.6
67.5°	11986.1	6474.8	89.6	31.5	16.8	9.8	12.8	18.7	23.6	26.6	26.6
70°	9752.6	4864.0	74.9	23.6	13.8	8.9	10.8	17.7	22.7	25.6	25.6
72.5°	6776.2	2999.0	67.0	16.8	11.9	7.9	9.8	16.8	21.7	24.7	25.6
75°	3221.7	1085.7	57.2	12.8	10.8	6.9	8.9	16.8	21.7	24.7	24.7
77.5°	657.1	252.3	46.3	10.8	8.9	6.9	7.9	15.8	20.7	23.6	23.6
80°	215.7	97.5	34.5	9.8	8.9	6.9	7.9	14.7	20.7	22.7	23.6
82.5°	155.7	49.3	22.7	9.8	8.9	6.9	6.9	14.7	19.7	22.7	22.7
85°	119.2	34.5	14.7	9.8	8.9	6.9	6.9	13.8	18.7	21.7	21.7
87.5°	78.8	13.8	11.9	9.8	8.9	6.9	6.9	13.8	17.7	20.7	21.7
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)