

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: P268509

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268509
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-05-LED-U-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 17296.6 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

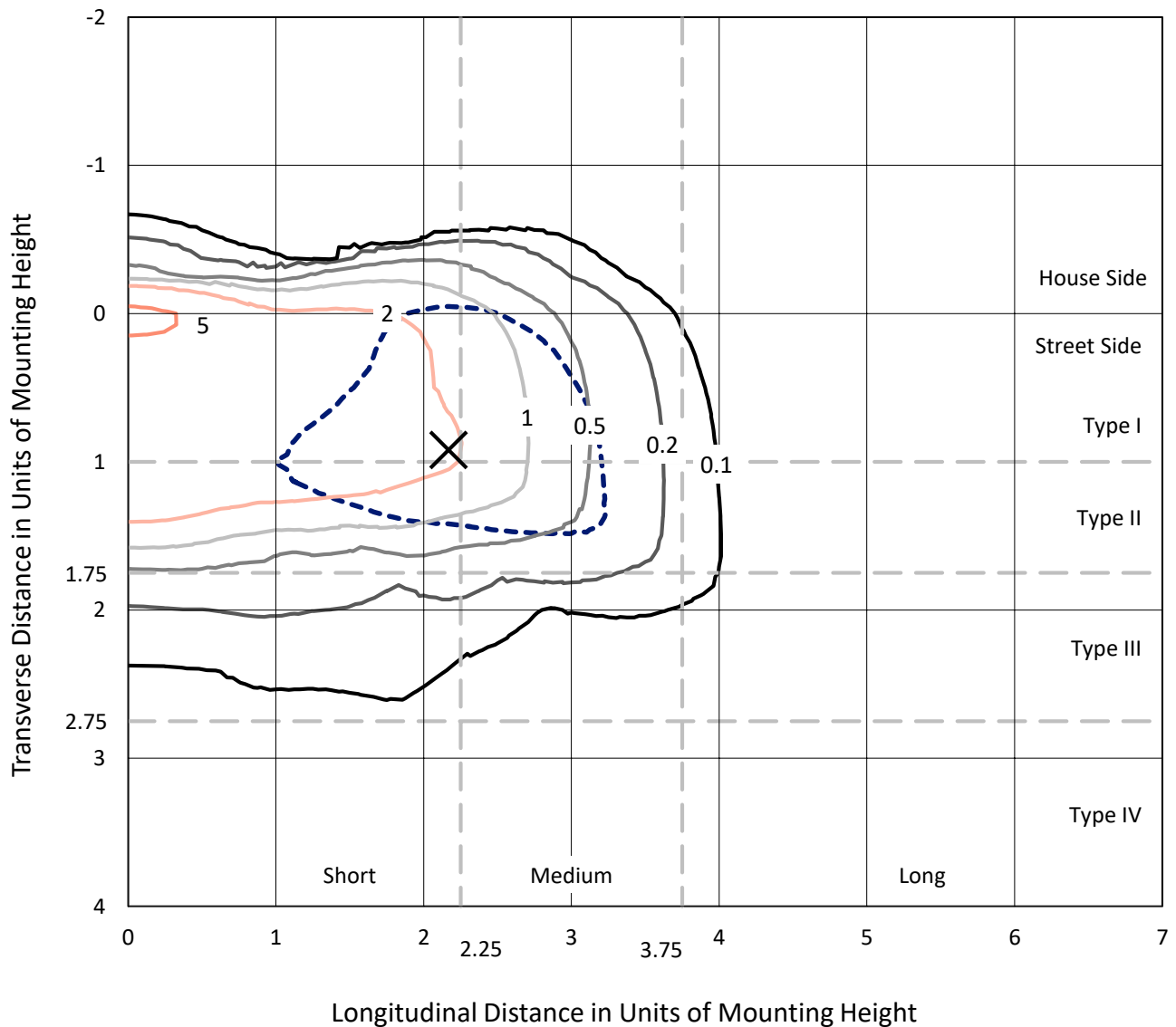


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

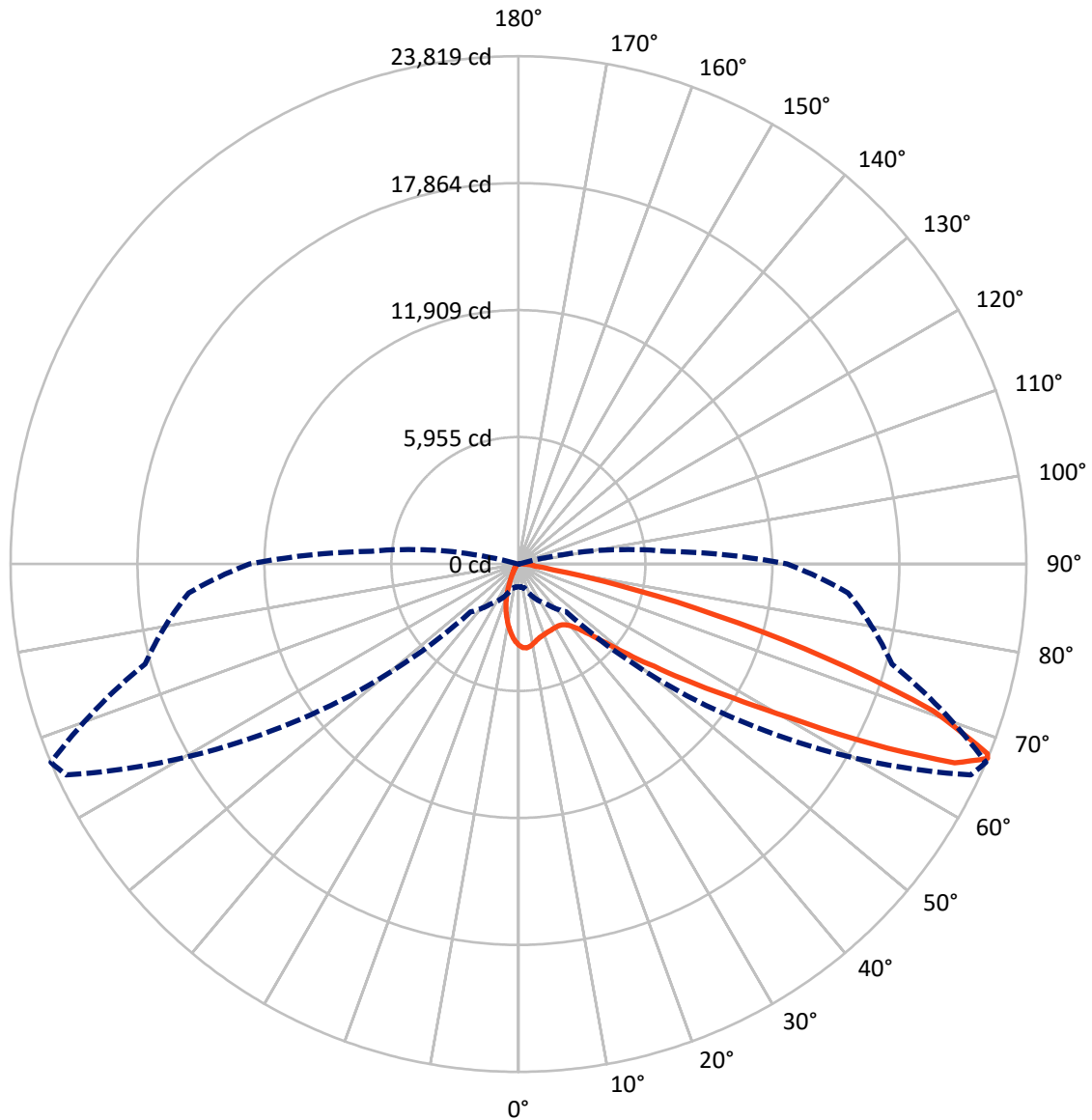


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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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	1795.9	0.0	1795.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15500.7	0.0	15500.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	17296.6	0.0	17296.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	1.8
10°-20°	660.6	3.8
20°-30°	960.5	5.6
30°-40°	1498.4	8.7
40°-50°	2654.3	15.3
50°-60°	4200.2	24.3
60°-70°	4810.7	27.8
70°-80°	1995.5	11.5
80°-90°	206.1	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°	17296.6	100.0
0°-180°	17296.6	100.0

Coefficient of Utilization



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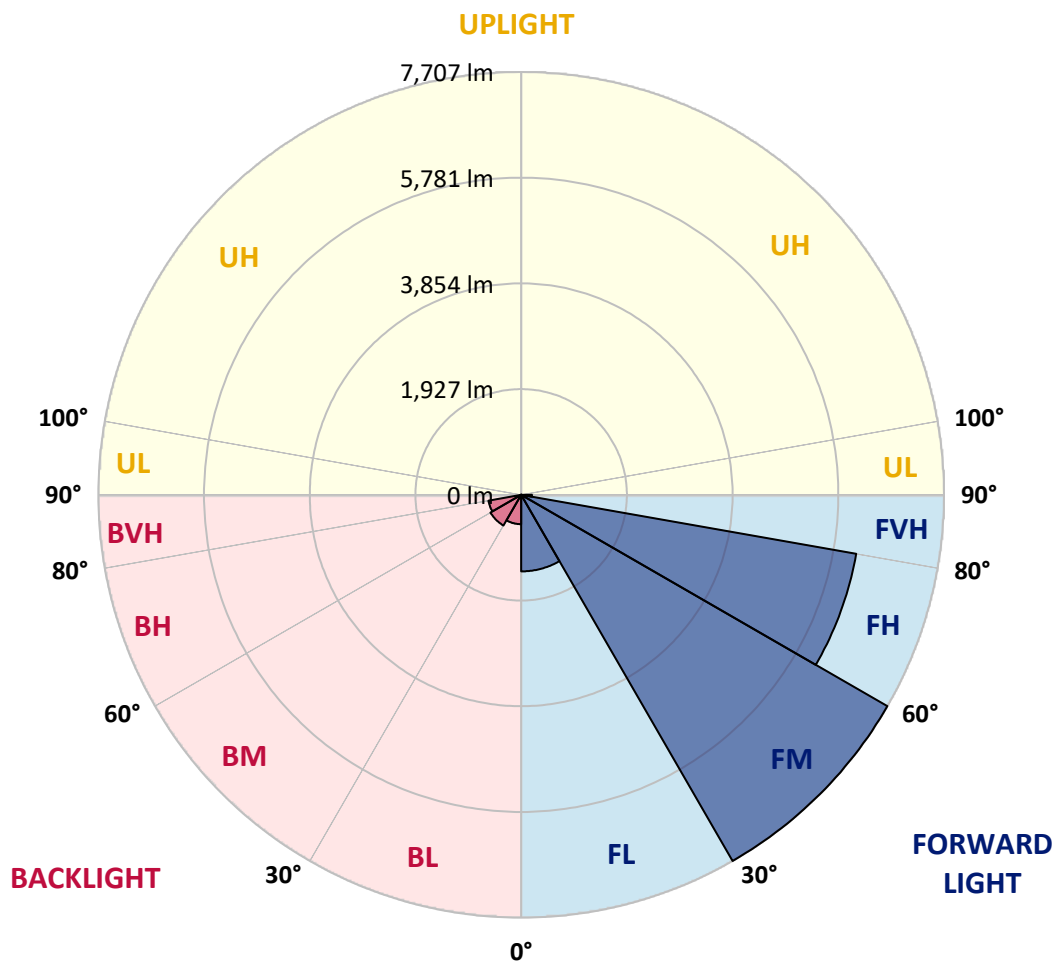
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.6	8.1			
FM (30°-60°)	7707.4	44.6			
FH (60°-80°)	6200.9	35.9			G3/7500
FVH (80°-90°)	196.8	1.1			G2/225
BL (0°-30°)	535.9	3.1	B2/1000		
BM (30°-60°)	645.4	3.7	B1/1000		
BH (60°-80°)	605.3	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°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3943.6	3951.7	3950.7	3956.9	3970.9	3971.9	3957.8	3930.5	3924.5	3889.2	3827.7
5°	3637.0	3660.2	3674.2	3731.7	3796.3	3874.1	3932.6	3953.8	3950.7	3925.6	3832.7
7.5°	3286.9	3310.2	3326.2	3393.8	3479.7	3612.8	3765.2	3890.2	3901.2	3928.6	3828.7
10°	3053.9	3057.9	3080.1	3144.6	3234.4	3370.6	3552.3	3771.2	3804.4	3904.4	3818.5
12.5°	2862.2	2865.2	2894.5	2964.0	3059.8	3197.1	3387.8	3641.0	3692.5	3874.1	3816.5
15°	2725.9	2737.0	2763.2	2835.9	2937.8	3074.0	3269.8	3545.3	3606.8	3863.0	3834.8
17.5°	2680.6	2692.7	2700.8	2753.2	2846.0	2979.1	3180.0	3482.5	3552.3	3869.0	3870.1
20°	2728.1	2737.0	2718.9	2732.0	2789.5	2908.6	3104.4	3429.2	3511.8	3876.0	3915.4
22.5°	2904.5	2908.6	2859.1	2801.6	2791.6	2857.1	3044.7	3386.8	3475.5	3895.3	3968.9
25°	3207.2	3200.1	3119.5	2995.4	2878.3	2848.0	3009.5	3360.6	3457.3	3915.4	4024.3
27.5°	3572.4	3582.5	3471.5	3290.9	3068.0	2908.6	3004.4	3349.5	3449.3	3929.5	4072.8
30°	4016.3	4030.4	3903.3	3676.4	3356.5	3057.9	3050.9	3347.4	3444.3	3920.6	4076.9
32.5°	4469.2	4486.4	4386.6	4152.5	3741.9	3308.1	3155.7	3369.6	3454.4	3889.2	4053.6
35°	4943.6	4967.6	4901.2	4700.3	4264.6	3669.2	3340.3	3437.3	3501.9	3886.2	4030.4
37.5°	5598.2	5620.4	5495.3	5282.5	4897.1	4153.6	3637.0	3564.4	3613.8	3934.5	4036.5
40°	6575.9	6572.8	6250.0	5924.1	5592.2	4768.9	4053.6	3794.4	3819.7	4080.9	4111.2
42.5°	7641.3	7636.1	7159.0	6663.5	6364.0	5526.6	4601.5	4191.9	4174.8	4350.2	4304.9
45°	8462.5	8461.5	8072.0	7514.1	7293.2	6396.2	5309.7	4744.8	4718.4	4788.1	4662.1
47.5°	8812.6	8818.5	8622.8	8230.5	8323.2	7572.6	6202.5	5545.7	5506.4	5478.1	5286.4
50°	8540.0	8552.3	8568.4	8491.7	9078.8	9153.5	7400.1	6674.6	6655.5	6529.4	6229.7
52.5°	7650.2	7711.8	7901.5	8144.7	9341.1	10670.8	9277.5	8077.0	7974.2	7840.0	7510.1
55°	6151.1	6218.6	6578.8	7169.1	8950.7	11667.6	11908.7	9884.9	9713.5	9312.9	8836.7
57.5°	4070.8	4175.7	4698.3	5448.8	7816.7	11828.1	14533.9	12394.0	11796.7	10700.2	10163.5
60°	2242.7	2343.6	2910.6	3590.5	5645.7	11035.0	16299.3	15660.7	14605.5	12250.7	11774.5
62.5°	1381.1	1435.6	1854.3	2486.9	3385.8	8709.5	16664.5	19765.9	18544.2	14247.3	13720.7
65°	1099.6	1122.9	1327.7	2032.9	2427.3	5180.5	15485.3	22895.5	22487.8	16664.5	15463.1
67°	1067.4	1076.4	1173.4	1745.3	2288.2	3176.0	12973.1	23404.9	23818.5	18127.4	15517.5
67.5°	1074.5	1084.6	1176.3	1665.6	2284.1	2918.7	12107.4	23204.1	23726.8	18243.5	15276.3
70°	1036.1	1067.4	1346.9	1664.6	2172.1	2425.3	7250.8	20104.8	20648.6	16951.0	12962.1
72.5°	367.2	369.3	582.1	1346.9	2361.7	2451.6	3641.0	14738.6	15141.2	12967.0	9345.2
75°	217.8	185.6	193.8	383.3	2256.8	2381.0	2100.4	9417.8	9568.1	7430.3	4732.6
77.5°	150.3	131.2	135.1	169.5	859.6	2347.6	1668.7	4911.3	4750.7	2606.0	1007.9
80°	85.8	75.6	80.7	148.3	312.8	2190.2	1573.8	1991.5	1697.9	441.8	278.5
82.5°	45.5	38.4	46.4	122.1	217.8	1365.1	1576.9	962.4	762.8	149.3	189.6
85°	16.1	13.1	22.2	83.7	145.3	418.7	1461.8	809.2	635.6	72.7	144.3
87.5°	3.1	3.1	9.2	34.2	58.5	128.1	864.6	480.2	321.9	43.4	98.9
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°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3802.4	3759.0	3700.6	3629.0	3544.2	3469.6	3414.0	3356.5	3344.4	3324.3	3321.3
5°	3777.3	3702.5	3557.3	3390.8	3213.2	3052.9	2922.7	2806.7	2755.2	2710.8	2705.9
7.5°	3740.0	3628.0	3380.7	3112.4	2835.0	2582.6	2368.8	2217.5	2078.3	2011.7	2001.7
10°	3696.5	3536.1	3181.9	2809.7	2426.3	2070.2	1752.5	1486.1	1324.6	1228.8	1216.8
12.5°	3656.1	3446.3	2979.1	2495.9	1986.5	1510.3	1101.7	847.5	678.0	609.4	601.2
15°	3637.0	3373.7	2789.5	2175.2	1526.4	961.5	602.4	466.1	410.6	394.4	393.5
17.5°	3635.0	3312.1	2603.8	1843.2	1069.4	558.9	392.5	358.2	347.0	343.1	343.1
20°	3634.0	3253.7	2418.2	1499.2	678.9	372.3	326.9	318.8	310.8	305.8	305.8
22.5°	3645.1	3201.2	2224.6	1148.2	427.8	301.7	287.5	279.5	269.4	262.3	261.2
25°	3656.1	3160.7	2026.8	817.2	309.7	262.3	248.2	237.2	223.0	213.8	212.9
27.5°	3658.2	3110.3	1814.9	546.8	259.3	229.0	210.8	193.8	177.5	168.5	167.4
30°	3628.0	3025.6	1579.8	369.3	229.0	198.7	174.5	156.3	141.3	134.1	134.1
32.5°	3568.3	2920.7	1321.6	278.5	203.7	170.5	144.3	127.1	117.0	114.1	112.9
35°	3514.9	2807.7	1056.2	236.1	182.6	144.3	118.0	107.0	100.9	99.9	98.9
37.5°	3483.6	2717.0	807.0	213.8	162.5	121.0	99.9	91.7	88.8	86.7	87.8
40°	3507.8	2641.2	596.3	195.7	142.2	100.9	84.7	80.7	77.7	76.6	76.6
42.5°	3613.8	2628.1	443.0	179.7	123.1	83.7	73.7	70.6	68.6	67.6	68.6
45°	3892.3	2708.7	344.1	164.4	103.9	70.6	62.5	61.5	60.5	60.5	60.5
47.5°	4311.0	2875.2	286.5	147.3	86.7	60.5	54.4	53.4	52.6	53.4	53.4
50°	5020.2	3180.0	256.2	130.2	71.7	51.5	46.4	46.4	46.4	46.4	47.4
52.5°	6098.7	3779.2	236.1	112.9	58.5	43.4	39.3	39.3	40.3	40.3	41.3
55°	7300.2	4574.2	217.8	95.8	49.4	36.3	32.2	33.2	34.2	35.4	35.4
57.5°	8603.6	5455.0	202.7	78.7	42.4	29.3	27.3	28.2	29.3	31.4	31.4
60°	10176.4	6408.4	180.6	61.5	35.4	23.1	21.2	23.1	26.2	28.2	29.3
62.5°	11903.7	7330.4	152.4	48.4	29.3	18.1	17.2	21.2	25.2	27.3	28.2
65°	13084.1	7620.1	117.0	39.3	22.2	13.1	14.2	19.1	24.3	27.3	27.3
67°	12605.8	6908.8	95.8	33.2	18.1	10.2	13.1	19.1	24.3	26.2	27.3
67.5°	12273.9	6630.3	91.7	32.2	17.2	10.2	13.1	19.1	24.3	27.3	27.3
70°	9986.8	4980.8	76.6	24.3	14.2	9.2	11.0	18.1	23.1	26.2	26.2
72.5°	6939.0	3071.0	68.6	17.2	12.0	8.1	10.2	17.2	22.2	25.2	26.2
75°	3299.0	1111.8	58.5	13.1	11.0	7.0	9.2	17.2	22.2	25.2	25.2
77.5°	672.9	258.3	47.4	11.0	9.2	7.0	8.1	16.1	21.2	24.3	24.3
80°	221.0	99.9	35.4	10.2	9.2	7.0	8.1	15.1	21.2	23.1	24.3
82.5°	159.4	50.5	23.1	10.2	9.2	7.0	7.0	15.1	20.2	23.1	23.1
85°	122.1	35.4	15.1	10.2	9.2	7.0	7.0	14.2	19.1	22.2	22.2
87.5°	80.7	14.2	12.0	10.2	9.2	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)