

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: P268827

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268827
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-09-LED-U-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 25230 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 290
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

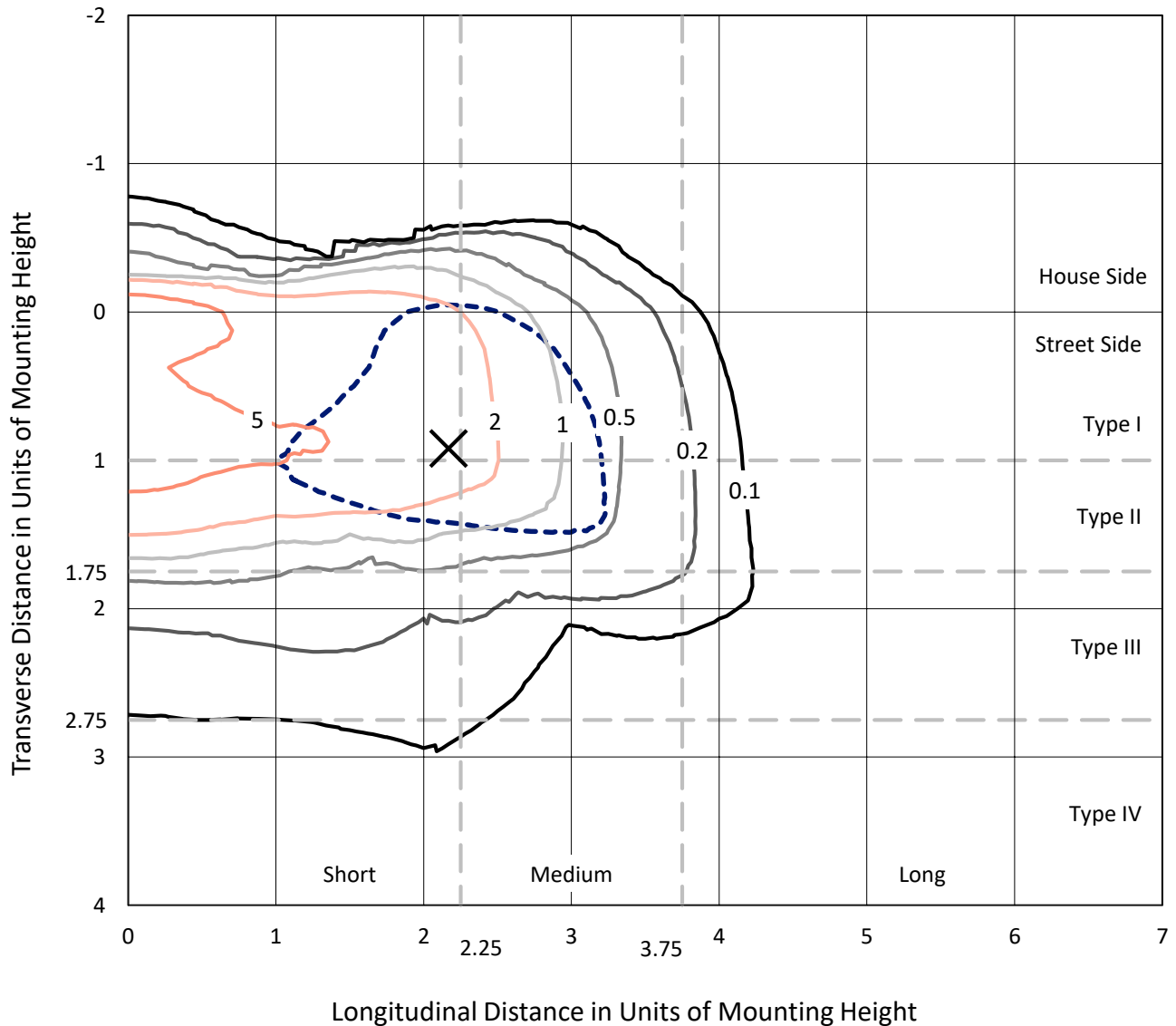


REPORT NUMBER: P268827

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-7027-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

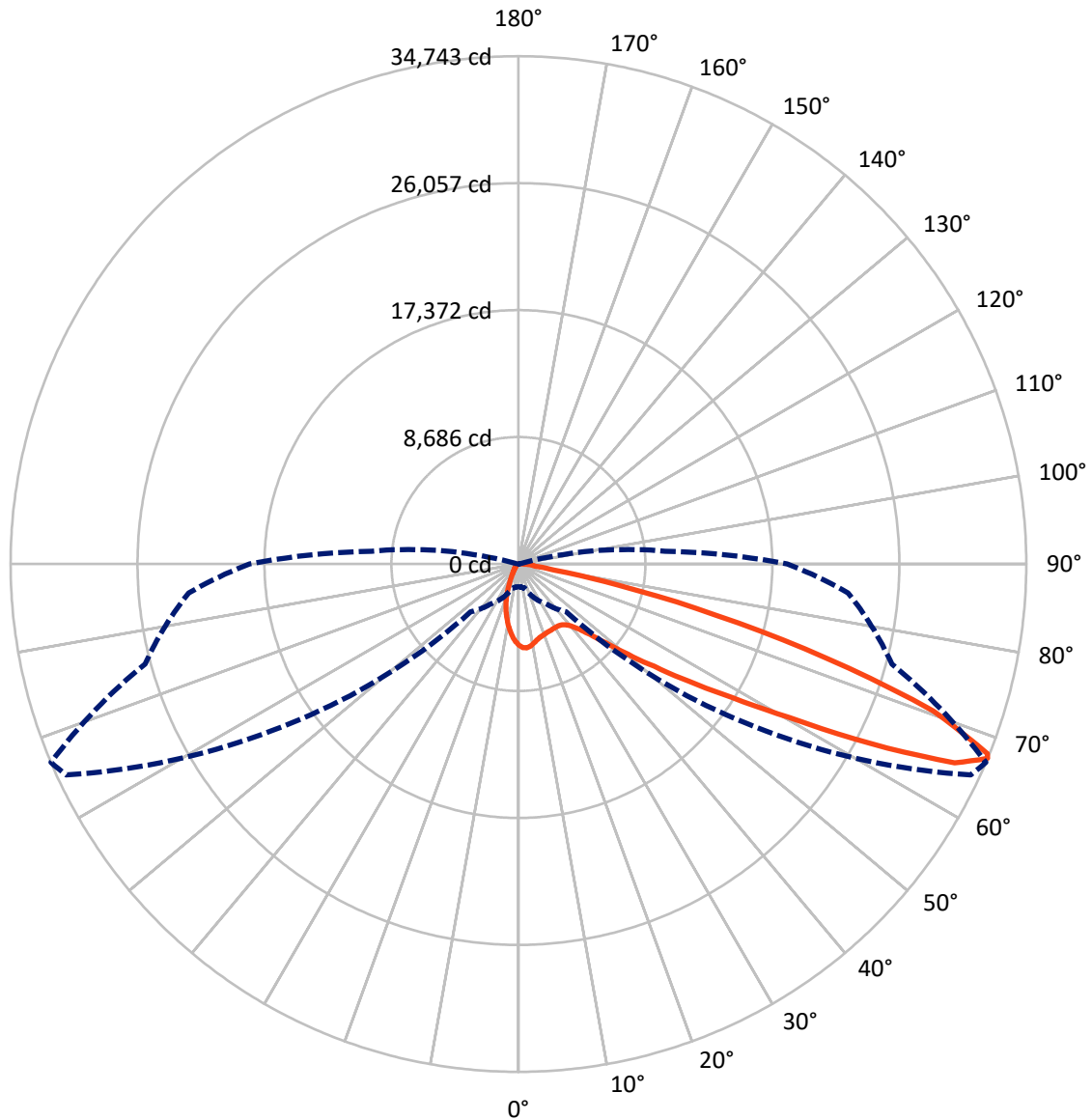


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P268827

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-7027-600-HSS

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	2619.6	0.0	2619.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22610.3	0.0	22610.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	25230.0	0.0	25230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	1.8
10°-20°	963.6	3.8
20°-30°	1401.0	5.6
30°-40°	2185.6	8.7
40°-50°	3871.7	15.3
50°-60°	6126.7	24.3
60°-70°	7017.2	27.8
70°-80°	2910.7	11.5
80°-90°	300.7	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°	25230.0	100.0
0°-180°	25230.0	100.0

Coefficient of Utilization



REPORT NUMBER: P268827

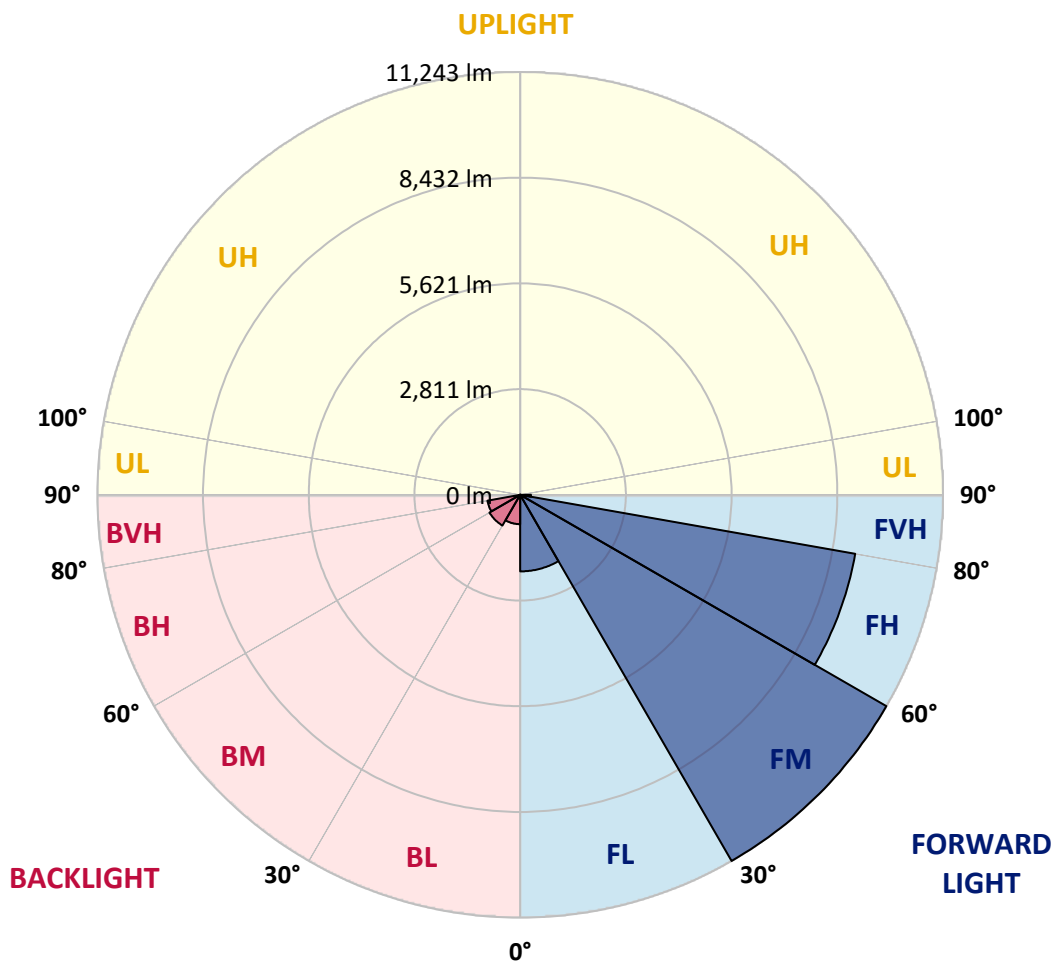
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2035.7	8.1			
FM (30°-60°)	11242.5	44.6			
FH (60°-80°)	9045.0	35.9			G4/12000
FVH (80°-90°)	287.1	1.1			G3/500
BL (0°-30°)	781.7	3.1	B2/1000		
BM (30°-60°)	941.5	3.7	B1/1000		
BH (60°-80°)	882.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P268827

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-7027-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1
2.5°	5752.4	5764.2	5762.7	5771.6	5792.2	5793.7	5773.0	5733.3	5724.5	5673.1	5583.2
5°	5305.1	5338.9	5359.6	5443.5	5537.6	5651.0	5736.2	5767.2	5762.7	5726.1	5590.6
7.5°	4794.6	4828.3	4851.8	4950.5	5075.6	5269.7	5492.1	5674.6	5690.8	5730.5	5584.8
10°	4454.5	4460.4	4492.9	4586.9	4718.0	4916.7	5181.6	5500.9	5549.4	5695.2	5570.0
12.5°	4175.0	4179.4	4222.0	4323.6	4463.4	4663.6	4941.7	5311.0	5386.1	5651.0	5567.1
15°	3976.3	3992.4	4030.8	4136.6	4285.4	4484.0	4769.6	5171.3	5261.1	5634.8	5593.6
17.5°	3910.1	3927.7	3939.4	4016.1	4151.3	4345.6	4638.5	5079.9	5181.6	5643.6	5645.0
20°	3979.2	3992.4	3965.9	3985.2	4069.1	4242.6	4528.1	5002.0	5122.7	5653.9	5711.3
22.5°	4236.8	4242.6	4170.6	4086.7	4071.9	4167.5	4441.3	4940.1	5069.7	5681.9	5789.2
25°	4678.3	4668.0	4550.3	4369.1	4198.5	4154.3	4389.7	4902.0	5043.2	5711.3	5870.2
27.5°	5211.0	5225.7	5063.7	4800.4	4475.1	4242.6	4382.4	4885.7	5031.3	5731.9	5940.9
30°	5858.4	5879.0	5693.6	5362.5	4896.0	4460.4	4450.2	4882.7	5024.1	5718.7	5946.8
32.5°	6519.2	6544.2	6398.5	6057.1	5458.2	4825.3	4603.2	4915.2	5038.8	5673.1	5913.0
35°	7210.9	7246.2	7149.0	6856.3	6220.5	5352.2	4872.4	5013.8	5107.9	5668.7	5879.0
37.5°	8166.0	8198.3	8015.8	7705.3	7143.1	6058.6	5305.1	5199.2	5271.3	5739.2	5887.9
40°	9591.9	9587.5	9116.5	8641.2	8157.1	6956.2	5913.0	5534.6	5571.5	5952.7	5996.7
42.5°	11145.9	11138.5	10442.4	9719.9	9282.8	8061.5	6712.0	6114.6	6089.5	6345.5	6279.3
45°	12343.8	12342.4	11774.4	10960.5	10638.3	9329.9	7745.0	6920.9	6882.8	6984.2	6800.3
47.5°	12854.4	12863.3	12577.8	12005.4	12140.8	11045.9	9047.4	8089.3	8032.0	7990.9	7711.2
50°	12457.2	12474.9	12498.4	12386.5	13243.0	13351.9	10794.3	9736.1	9708.3	9524.2	9087.2
52.5°	11159.1	11248.9	11525.7	11880.3	13625.6	15565.1	13532.8	11781.7	11631.6	11435.9	10954.7
55°	8972.5	9070.9	9596.4	10457.2	13056.1	17019.1	17370.9	14418.8	14168.5	13584.3	12889.8
57.5°	5937.9	6091.0	6853.3	7948.2	11401.9	17253.0	21199.9	18078.7	17207.5	15607.8	14825.0
60°	3271.4	3418.5	4245.6	5237.5	8235.1	16096.4	23775.3	22843.7	21304.5	17869.8	17175.1
62.5°	2014.5	2094.0	2704.7	3627.4	4938.7	12704.4	24308.0	28831.7	27049.6	20782.0	20013.8
65°	1604.1	1637.9	1936.7	2965.2	3540.7	7556.7	22587.6	33396.6	32802.1	24308.0	22555.4
67°	1556.9	1570.1	1711.5	2545.8	3337.7	4632.6	18923.3	34139.7	34743.1	26441.8	22634.8
67.5°	1567.3	1581.9	1715.9	2429.6	3331.8	4257.3	17660.8	33846.9	34609.2	26611.0	22283.0
70°	1511.4	1556.9	1964.7	2428.2	3168.3	3537.7	10576.5	29326.2	30119.4	24725.8	18907.2
72.5°	535.7	538.7	849.1	1964.7	3445.0	3576.1	5311.0	21498.6	22085.9	18914.5	13631.5
75°	317.9	270.7	282.5	559.3	3292.0	3472.9	3063.8	13737.4	13956.6	10838.4	6903.4
77.5°	219.2	191.2	197.2	247.3	1253.9	3424.3	2434.0	7163.8	6929.7	3801.2	1470.2
80°	125.0	110.4	117.7	216.3	456.2	3194.8	2295.7	2904.9	2476.6	644.5	406.2
82.5°	66.3	56.0	67.7	178.0	317.9	1991.1	2300.1	1404.0	1112.6	217.7	276.7
85°	23.5	19.1	32.3	122.1	211.9	610.7	2132.3	1180.3	927.1	106.0	210.5
87.5°	4.4	4.4	13.2	50.0	85.3	186.8	1261.2	700.5	469.5	63.3	144.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268827

CATALOG NUMBER: GAN-AF-09-LED-U-SL2-7027-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1	5564.1
2.5°	5546.4	5483.3	5397.8	5293.4	5169.7	5060.8	4979.9	4896.0	4878.3	4849.0	4844.5
5°	5509.7	5400.8	5188.9	4946.1	4687.0	4453.1	4263.3	4094.0	4018.9	3954.2	3946.9
7.5°	5455.2	5291.8	4931.3	4539.9	4135.2	3767.3	3455.3	3234.5	3031.5	2934.4	2919.8
10°	5391.9	5158.0	4641.5	4098.3	3539.2	3019.7	2556.1	2167.7	1932.3	1792.4	1774.7
12.5°	5333.1	5027.1	4345.6	3640.7	2897.7	2203.1	1607.0	1236.2	988.9	888.9	877.0
15°	5305.1	4921.1	4069.1	3172.8	2226.4	1402.4	878.5	679.8	598.9	575.5	573.9
17.5°	5302.2	4831.3	3798.3	2688.6	1559.8	815.3	572.5	522.5	506.3	500.4	500.4
20°	5300.7	4745.9	3527.5	2186.8	990.4	543.0	476.8	465.1	453.3	445.9	445.9
22.5°	5316.9	4669.4	3244.9	1674.7	624.0	440.0	419.4	407.7	392.9	382.6	381.2
25°	5333.1	4610.6	2956.4	1192.1	451.8	382.6	361.9	345.8	325.2	312.0	310.5
27.5°	5336.0	4537.0	2647.5	797.7	378.1	334.1	307.6	282.5	259.0	245.7	244.2
30°	5291.8	4413.4	2304.5	538.7	334.1	290.0	254.6	228.1	206.0	195.7	195.7
32.5°	5205.0	4260.3	1927.9	406.2	297.2	248.7	210.5	185.4	170.7	166.2	164.7
35°	5127.0	4095.5	1540.8	344.4	266.3	210.5	172.1	155.9	147.1	145.6	144.2
37.5°	5081.4	3963.1	1177.3	312.0	237.0	176.5	145.6	133.8	129.4	126.5	128.0
40°	5116.7	3852.7	869.6	285.5	207.5	147.1	123.5	117.7	113.4	111.8	111.8
42.5°	5271.3	3833.5	646.1	261.9	179.5	122.1	107.4	103.0	100.2	98.6	100.2
45°	5677.5	3951.3	501.9	239.8	151.5	103.0	91.3	89.8	88.4	88.4	88.4
47.5°	6288.1	4194.0	417.9	214.9	126.5	88.4	79.5	78.1	76.5	78.1	78.1
50°	7322.8	4638.5	373.8	189.8	104.6	75.1	67.7	67.7	67.7	67.7	69.2
52.5°	8895.8	5512.5	344.4	164.7	85.3	63.3	57.4	57.4	58.8	58.8	60.4
55°	10648.5	6672.3	317.9	139.7	72.1	53.0	47.2	48.6	50.0	51.6	51.6
57.5°	12549.9	7956.9	295.8	114.9	61.9	42.7	39.7	41.2	42.7	45.6	45.6
60°	14844.1	9347.7	263.5	89.8	51.6	33.9	30.9	33.9	38.3	41.2	42.7
62.5°	17363.5	10692.6	222.2	70.6	42.7	26.5	25.1	30.9	36.8	39.7	41.2
65°	19085.2	11115.1	170.7	57.4	32.3	19.1	20.7	27.9	35.4	39.7	39.7
67°	18387.6	10077.5	139.7	48.6	26.5	14.7	19.1	27.9	35.4	38.3	39.7
67.5°	17903.5	9671.4	133.8	47.2	25.1	14.7	19.1	27.9	35.4	39.7	39.7
70°	14567.5	7265.3	111.8	35.4	20.7	13.2	16.2	26.5	33.9	38.3	38.3
72.5°	10121.7	4479.6	100.2	25.1	17.6	11.8	14.7	25.1	32.3	36.8	38.3
75°	4812.1	1621.7	85.3	19.1	16.2	10.3	13.2	25.1	32.3	36.8	36.8
77.5°	981.6	376.7	69.2	16.2	13.2	10.3	11.8	23.5	30.9	35.4	35.4
80°	322.3	145.6	51.6	14.7	13.2	10.3	11.8	22.1	30.9	33.9	35.4
82.5°	232.5	73.7	33.9	14.7	13.2	10.3	10.3	22.1	29.5	33.9	33.9
85°	178.0	51.6	22.1	14.7	13.2	10.3	10.3	20.7	27.9	32.3	32.3
87.5°	117.7	20.7	17.6	14.7	13.2	10.3	10.3	20.7	26.5	30.9	32.3
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)