

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: P192793

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192793
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-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 23832.7 lumens
Efficiency: N/A
Efficacy: 85.4 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 - G4

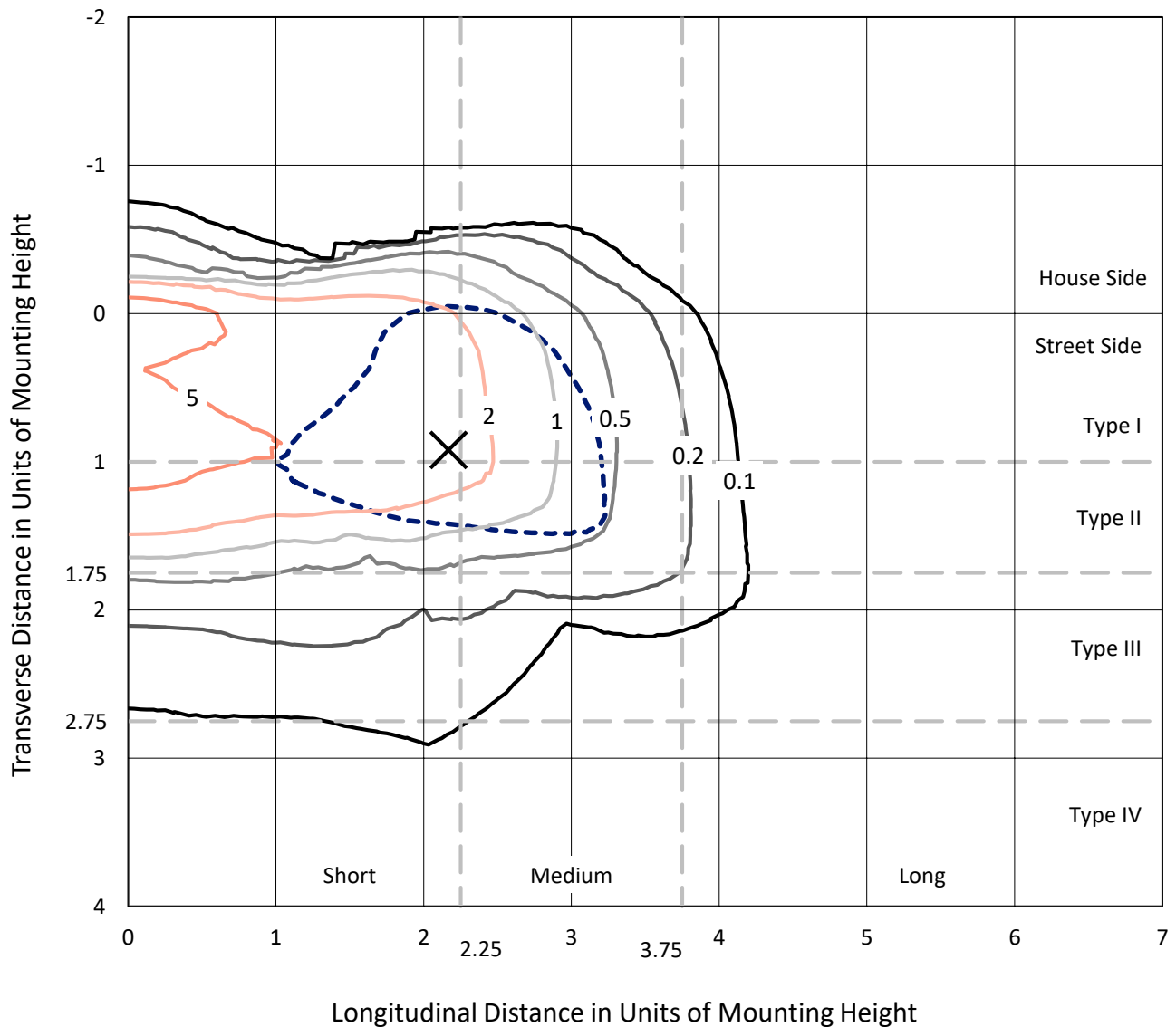
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

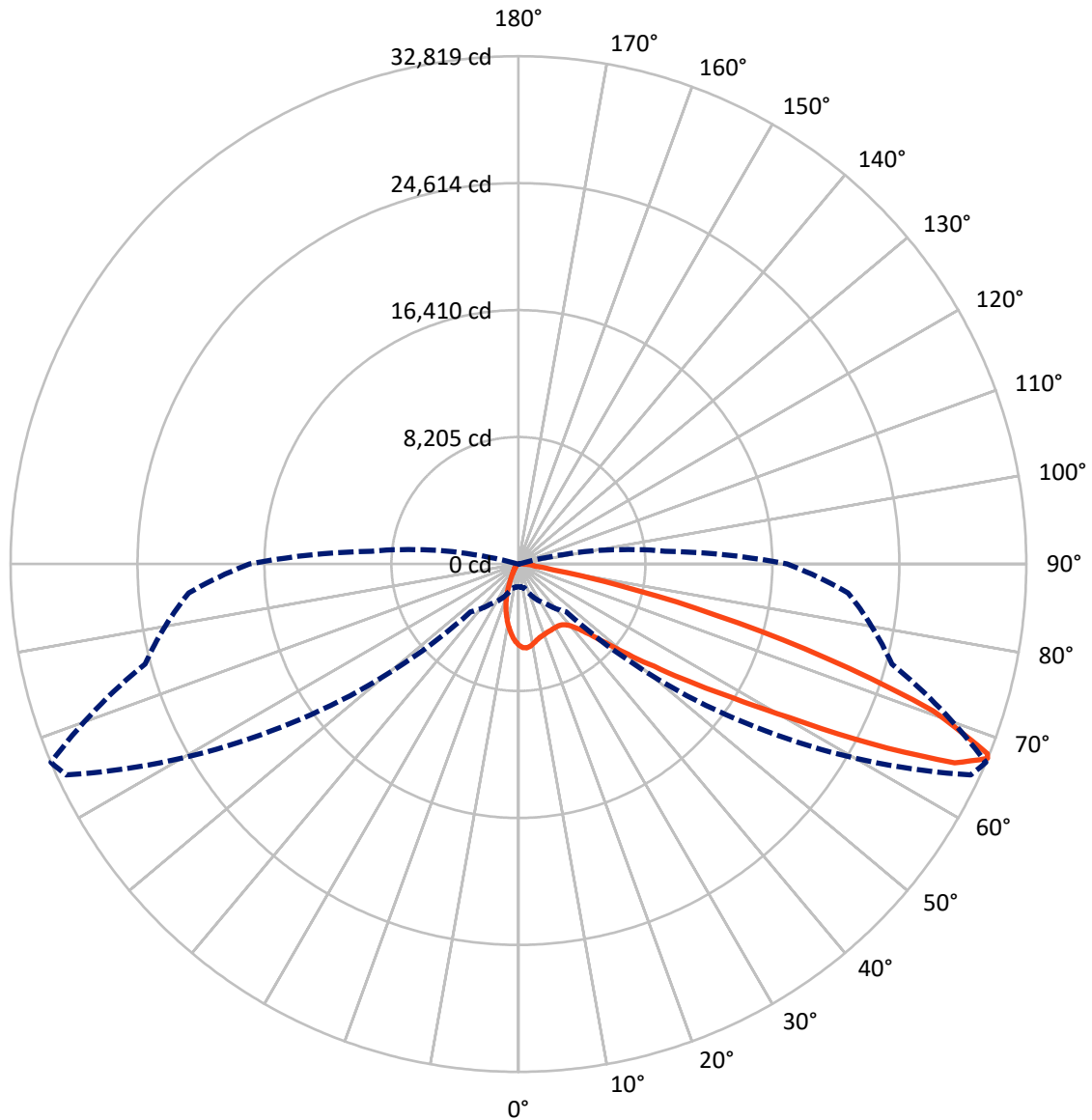
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2474.6	0.0	2474.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21358.2	0.0	21358.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	23832.7	0.0	23832.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.7	1.8
10°-20°	910.3	3.8
20°-30°	1323.4	5.6
30°-40°	2064.6	8.7
40°-50°	3657.3	15.3
50°-60°	5787.3	24.3
60°-70°	6628.6	27.8
70°-80°	2749.5	11.5
80°-90°	284.0	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°	23832.7	100.0
0°-180°	23832.7	100.0

Coefficient of Utilization



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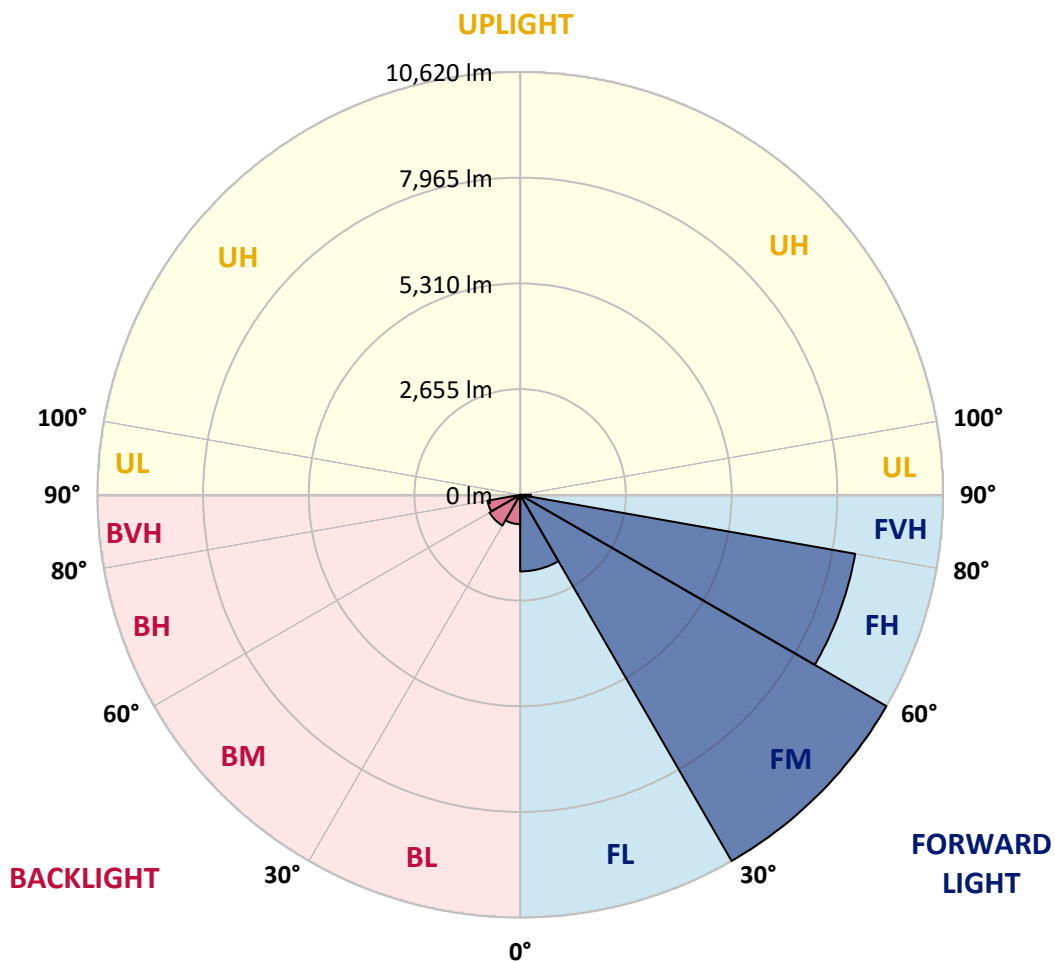
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.9	8.1			
FM (30°-60°)	10619.9	44.6			
FH (60°-80°)	8544.1	35.9			G4/12000
FVH (80°-90°)	271.2	1.1			G3/500
BL (0°-30°)	738.4	3.1	B2/1000		
BM (30°-60°)	889.3	3.7	B1/1000		
BH (60°-80°)	834.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	12.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0
2.5°	5433.9	5445.1	5443.7	5452.0	5471.4	5472.9	5453.3	5415.9	5407.6	5358.8	5274.1
5°	5011.2	5043.3	5062.7	5142.0	5231.0	5338.0	5418.6	5447.7	5443.7	5408.9	5281.0
7.5°	4529.1	4560.9	4583.2	4676.3	4794.6	4978.0	5187.8	5360.3	5375.5	5413.0	5275.5
10°	4207.9	4213.4	4243.9	4333.0	4456.6	4644.4	4894.6	5196.3	5242.0	5379.7	5261.6
12.5°	3943.7	3947.9	3988.2	4084.1	4216.2	4405.3	4668.0	5016.8	5087.7	5338.0	5258.7
15°	3756.2	3771.4	3807.4	3907.5	4047.9	4235.7	4505.3	4884.9	4969.6	5322.7	5283.8
17.5°	3693.5	3710.2	3721.4	3793.6	3921.6	4105.0	4381.7	4798.6	4894.6	5331.1	5332.4
20°	3758.8	3771.4	3746.4	3764.4	3843.6	4007.6	4277.4	4725.0	4839.0	5340.8	5395.0
22.5°	4002.1	4007.6	3939.6	3860.3	3846.5	3936.8	4195.3	4666.6	4789.0	5367.3	5468.7
25°	4419.1	4409.3	4298.3	4127.3	3966.0	3924.3	4146.7	4630.4	4763.9	5395.0	5545.1
27.5°	4922.3	4936.3	4783.4	4534.5	4227.3	4007.6	4139.8	4615.1	4752.8	5414.5	5611.9
30°	5534.0	5553.4	5378.3	5065.6	4624.8	4213.4	4203.6	4612.4	4745.7	5402.0	5617.4
32.5°	6158.2	6181.8	6044.2	5721.7	5156.0	4558.2	4348.3	4643.0	4759.8	5358.8	5585.5
35°	6811.6	6844.9	6753.1	6476.6	5876.0	5055.9	4602.6	4736.1	4825.1	5354.7	5553.4
37.5°	7713.7	7744.3	7571.8	7278.7	6747.7	5723.1	5011.2	4911.2	4979.4	5421.5	5561.9
40°	9060.8	9056.5	8611.7	8162.8	7705.4	6571.1	5585.5	5228.2	5262.9	5623.0	5664.6
42.5°	10528.7	10521.7	9864.3	9181.7	8768.8	7615.1	6340.4	5775.9	5752.3	5994.2	5931.5
45°	11660.2	11658.8	11122.3	10353.5	10049.1	8813.3	7316.1	6537.6	6501.6	6597.4	6423.7
47.5°	12142.6	12150.9	11881.3	11340.4	11468.4	10434.1	8546.4	7641.4	7587.2	7548.2	7284.2
50°	11767.2	11783.9	11806.2	11700.6	12509.5	12612.5	10196.4	9196.9	9170.5	8996.7	8584.0
52.5°	10541.3	10626.0	10887.3	11222.3	12871.0	14703.1	12783.5	11129.1	10987.4	10802.6	10348.0
55°	8475.5	8568.6	9064.9	9878.1	12333.0	16076.6	16408.8	13620.3	13383.9	12832.1	12176.0
57.5°	5609.1	5753.7	6473.7	7508.0	10770.6	16297.6	20025.9	17077.4	16254.5	14743.5	14004.0
60°	3090.2	3229.2	4010.5	4947.4	7779.0	15204.9	22458.6	21578.6	20124.6	16880.1	16223.9
62.5°	1903.1	1978.1	2555.0	3426.6	4665.2	12000.8	22961.8	27234.9	25551.6	19631.0	18905.4
65°	1515.2	1547.2	1829.3	2801.1	3344.7	7138.2	21336.8	31547.1	30985.5	22961.8	21306.2
67°	1470.7	1483.2	1616.7	2404.9	3152.7	4376.1	17875.4	32249.1	32819.1	24977.4	21381.3
67.5°	1480.5	1494.3	1620.9	2295.1	3147.2	4021.7	16682.7	31972.4	32692.5	25137.3	21049.1
70°	1427.7	1470.7	1855.8	2293.7	2992.9	3341.8	9990.6	27702.0	28451.3	23356.6	17860.1
72.5°	506.0	508.8	802.1	1855.8	3254.3	3378.0	5016.8	20308.1	20862.7	17867.0	12876.5
75°	300.3	255.7	266.9	528.3	3109.6	3280.6	2894.2	12976.6	13183.8	10238.1	6521.0
77.5°	207.1	180.8	186.3	233.5	1184.4	3234.7	2299.3	6767.1	6546.0	3590.7	1388.6
80°	118.1	104.3	111.2	204.4	430.9	3018.0	2168.6	2744.0	2339.6	608.9	383.7
82.5°	62.6	52.8	63.9	168.2	300.3	1880.8	2172.7	1326.2	1051.0	205.7	261.3
85°	22.3	18.0	30.6	115.4	200.2	576.9	2014.3	1114.9	875.7	100.1	198.8
87.5°	4.2	4.2	12.6	47.3	80.7	176.6	1191.4	661.7	443.5	59.8	136.2
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°	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0	5256.0
2.5°	5239.3	5179.6	5098.9	5000.2	4883.5	4780.5	4704.1	4624.8	4608.2	4580.3	4576.3
5°	5204.6	5101.7	4901.5	4672.2	4427.5	4206.5	4027.2	3867.2	3796.4	3735.2	3728.3
7.5°	5153.1	4998.8	4658.3	4288.5	3906.2	3558.7	3264.0	3055.4	2863.5	2771.9	2757.9
10°	5093.3	4872.3	4384.3	3871.5	3343.3	2852.5	2414.6	2047.6	1825.1	1693.2	1676.5
12.5°	5037.7	4748.6	4105.0	3439.2	2737.2	2081.0	1518.0	1167.7	934.1	839.6	828.5
15°	5011.2	4648.6	3843.6	2997.1	2103.2	1324.8	830.0	642.2	565.8	543.6	542.2
17.5°	5008.6	4563.8	3587.8	2539.7	1473.5	770.2	540.8	493.6	478.2	472.6	472.6
20°	5007.2	4483.1	3332.1	2065.6	935.6	513.0	450.3	439.2	428.2	421.2	421.2
22.5°	5022.4	4410.8	3065.2	1582.0	589.5	415.6	396.2	385.0	371.2	361.4	360.0
25°	5037.7	4355.2	2792.7	1126.0	426.7	361.4	342.0	326.6	307.2	294.7	293.4
27.5°	5040.5	4285.7	2500.8	753.5	357.3	315.5	290.5	266.9	244.6	232.1	230.7
30°	4998.8	4168.9	2176.9	508.8	315.5	273.8	240.5	215.5	194.6	184.8	184.8
32.5°	4916.7	4024.3	1821.1	383.7	280.8	234.9	198.8	175.2	161.2	157.2	155.7
35°	4843.1	3868.7	1455.5	325.3	251.7	198.8	162.7	147.4	139.0	137.6	136.2
37.5°	4800.1	3743.6	1112.0	294.7	223.8	166.8	137.6	126.5	122.4	119.5	121.0
40°	4833.4	3639.3	821.5	269.7	196.0	139.0	116.8	111.2	107.1	105.7	105.7
42.5°	4979.4	3621.2	610.2	247.5	169.6	115.4	101.5	97.4	94.5	93.1	94.5
45°	5363.0	3732.4	474.0	226.6	143.1	97.4	86.2	84.7	83.4	83.4	83.4
47.5°	5939.9	3961.8	394.8	203.0	119.5	83.4	75.1	73.6	72.3	73.6	73.6
50°	6917.2	4381.7	353.1	179.3	98.7	70.9	63.9	63.9	63.9	63.9	65.3
52.5°	8403.2	5207.3	325.3	155.7	80.7	59.8	54.2	54.2	55.6	55.6	57.1
55°	10058.9	6302.7	300.3	132.1	68.1	50.0	44.5	45.9	47.3	48.6	48.6
57.5°	11854.8	7516.3	279.3	108.3	58.4	40.3	37.5	38.9	40.3	43.0	43.0
60°	14022.0	8830.0	248.8	84.7	48.6	32.0	29.2	32.0	36.2	38.9	40.3
62.5°	16401.9	10100.5	209.9	66.7	40.3	25.0	23.6	29.2	34.8	37.5	38.9
65°	18028.4	10499.5	161.2	54.2	30.6	18.0	19.4	26.4	33.4	37.5	37.5
67°	17369.4	9519.4	132.1	45.9	25.0	13.8	18.0	26.4	33.4	36.2	37.5
67.5°	16912.0	9135.8	126.5	44.5	23.6	13.8	18.0	26.4	33.4	37.5	37.5
70°	13760.6	6863.0	105.7	33.4	19.4	12.6	15.3	25.0	32.0	36.2	36.2
72.5°	9561.2	4231.5	94.5	23.6	16.7	11.2	13.8	23.6	30.6	34.8	36.2
75°	4545.6	1532.0	80.7	18.0	15.3	9.8	12.6	23.6	30.6	34.8	34.8
77.5°	927.2	355.8	65.3	15.3	12.6	9.8	11.2	22.3	29.2	33.4	33.4
80°	304.4	137.6	48.6	13.8	12.6	9.8	11.2	20.9	29.2	32.0	33.4
82.5°	219.6	69.5	32.0	13.8	12.6	9.8	9.8	20.9	27.8	32.0	32.0
85°	168.2	48.6	20.9	13.8	12.6	9.8	9.8	19.4	26.4	30.6	30.6
87.5°	111.2	19.4	16.7	13.8	12.6	9.8	9.8	19.4	25.0	29.2	30.6
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)