

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: P268669

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268669
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-07-LED-U-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 24479.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

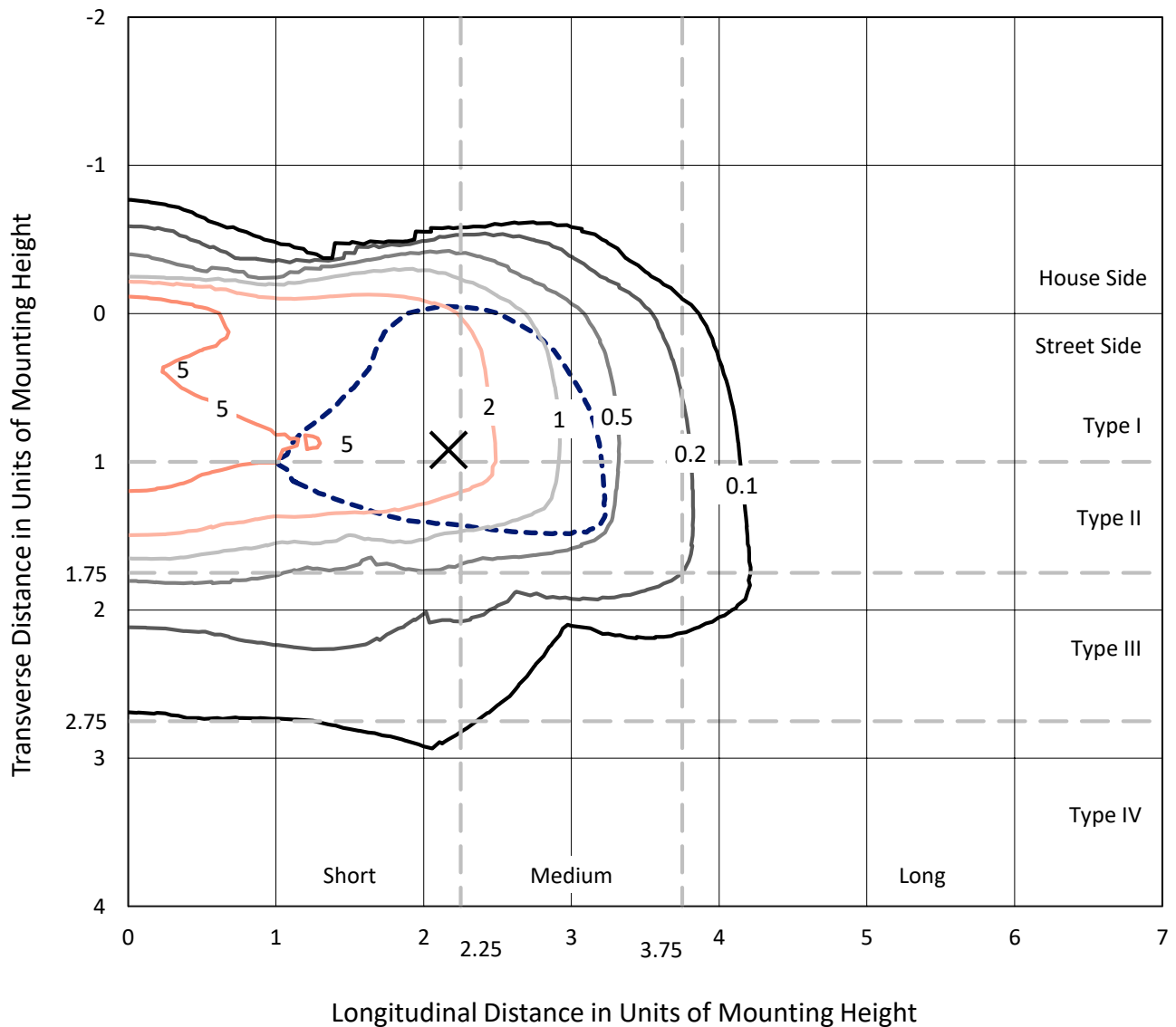


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

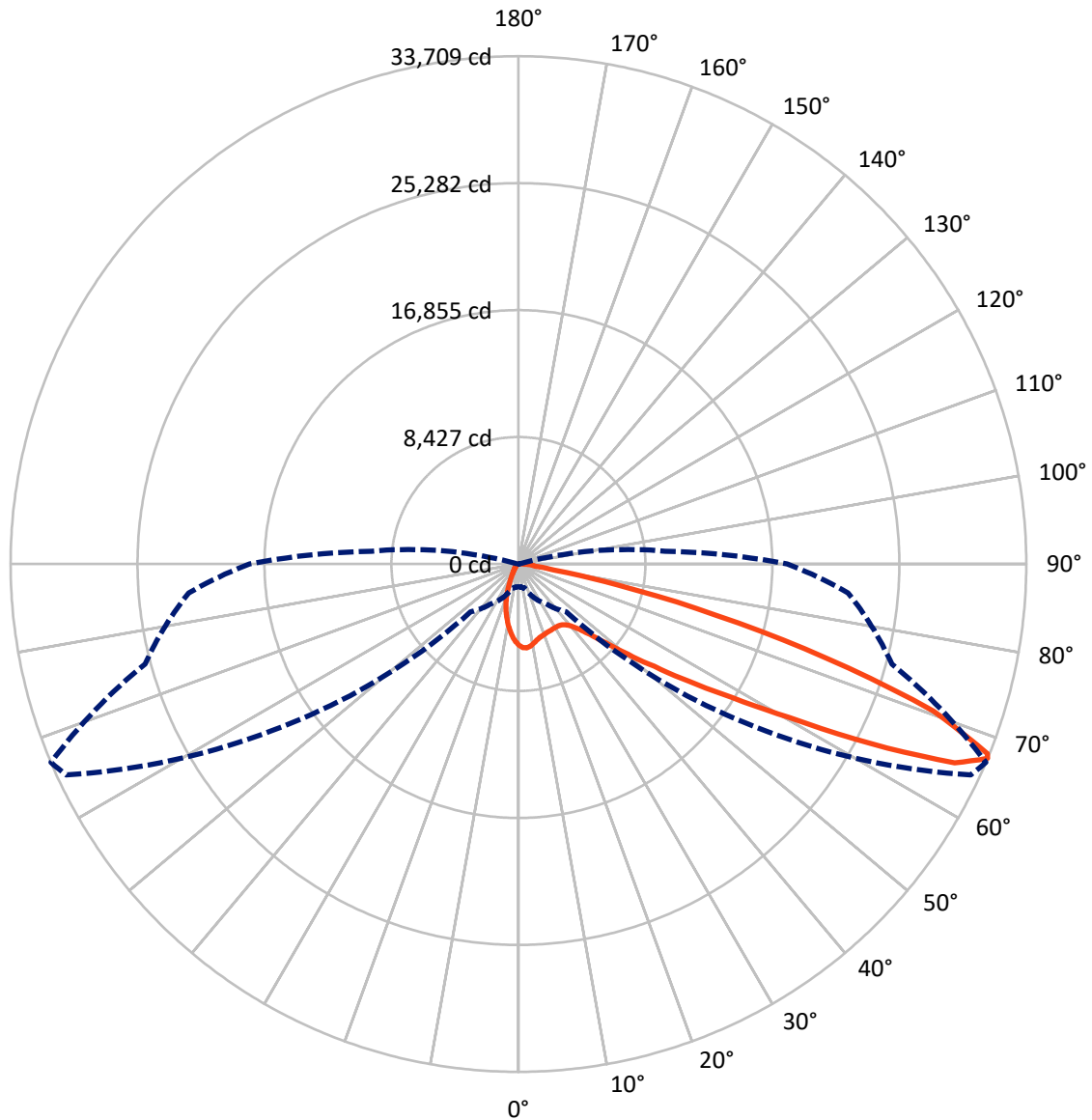


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Semi-Cutoff

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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	2541.7	0.0	2541.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21937.5	0.0	21937.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	24479.1	0.0	24479.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.3	1.8
10°-20°	934.9	3.8
20°-30°	1359.3	5.6
30°-40°	2120.6	8.7
40°-50°	3756.5	15.3
50°-60°	5944.3	24.3
60°-70°	6808.4	27.8
70°-80°	2824.1	11.5
80°-90°	291.7	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°	24479.1	100.0
0°-180°	24479.1	100.0



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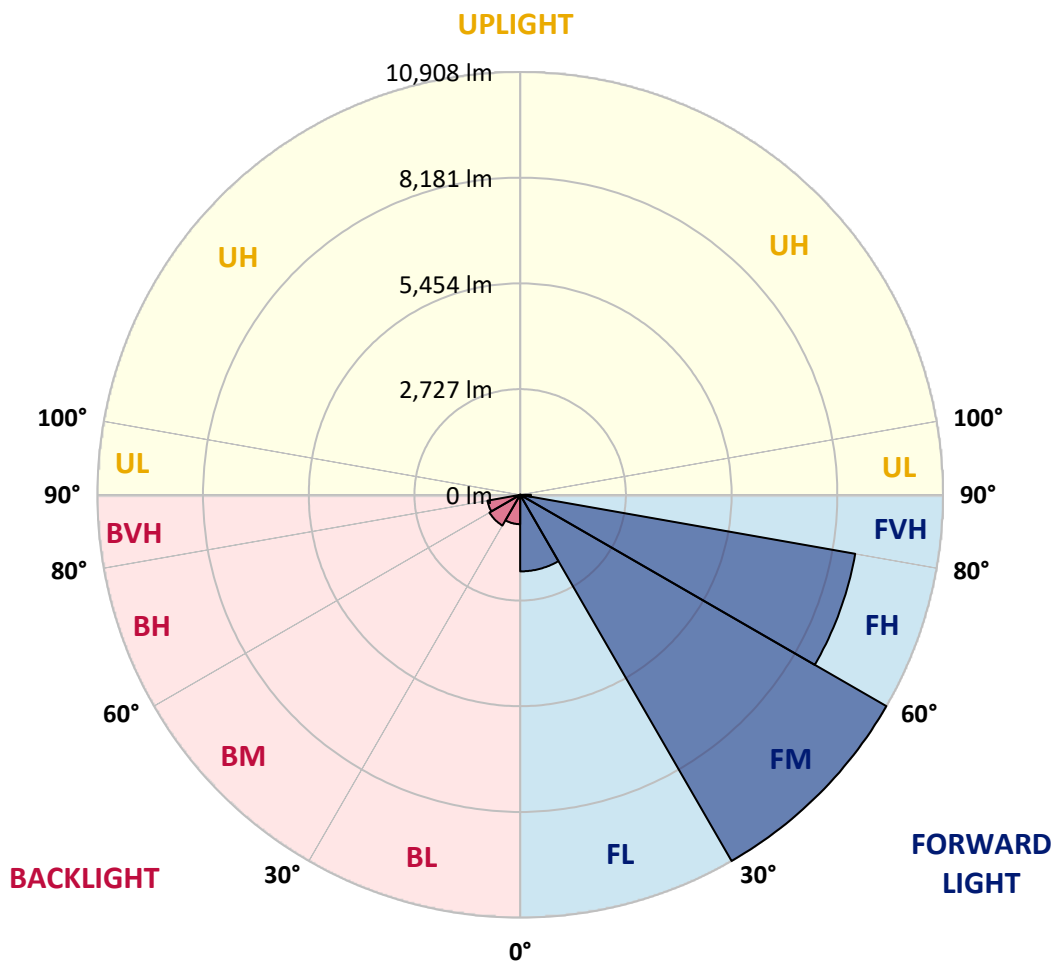
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.1	8.1			
FM (30°-60°)	10908.0	44.6			
FH (60°-80°)	8775.8	35.9			G4/12000
FVH (80°-90°)	278.6	1.1			G3/500
BL (0°-30°)	758.4	3.1	B2/1000		
BM (30°-60°)	913.5	3.7	B1/1000		
BH (60°-80°)	856.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.1	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°	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5
2.5°	5581.3	5592.8	5591.3	5599.9	5619.8	5621.4	5601.3	5562.8	5554.2	5504.3	5417.0
5°	5147.3	5180.0	5200.1	5281.4	5372.9	5482.7	5565.5	5595.6	5591.3	5555.6	5424.2
7.5°	4651.9	4684.7	4707.5	4803.1	4924.5	5113.1	5328.6	5505.6	5521.3	5559.9	5418.5
10°	4321.9	4327.7	4359.1	4450.6	4577.6	4770.3	5027.4	5337.2	5384.4	5525.7	5404.3
12.5°	4050.6	4054.9	4096.5	4194.9	4330.5	4524.8	4794.7	5152.9	5225.8	5482.7	5401.4
15°	3858.0	3873.6	3910.9	4013.5	4157.7	4350.5	4627.4	5017.4	5104.3	5467.1	5427.1
17.5°	3793.7	3810.8	3822.3	3896.5	4027.9	4216.4	4500.5	4928.8	5027.4	5475.7	5477.1
20°	3860.7	3873.6	3848.0	3866.6	3948.0	4116.4	4393.4	4853.2	4970.2	5485.7	5541.4
22.5°	4110.6	4116.4	4046.4	3964.9	3950.7	4043.6	4309.1	4793.1	4918.8	5512.8	5617.0
25°	4539.0	4529.1	4414.8	4239.2	4073.5	4030.8	4259.1	4756.0	4893.1	5541.4	5695.6
27.5°	5055.9	5070.2	4913.1	4657.5	4342.0	4116.4	4251.9	4740.4	4881.7	5561.3	5764.1
30°	5684.1	5704.1	5524.1	5203.0	4750.3	4327.7	4317.8	4737.5	4874.6	5548.6	5769.8
32.5°	6325.1	6349.5	6208.1	5876.9	5295.8	4681.7	4466.3	4768.9	4888.8	5504.3	5736.9
35°	6996.3	7030.6	6936.4	6652.2	6035.4	5192.9	4727.5	4864.5	4955.9	5500.0	5704.1
37.5°	7923.0	7954.3	7777.3	7476.1	6930.7	5878.2	5147.3	5044.4	5114.4	5568.5	5712.7
40°	9306.5	9302.2	8845.3	8384.2	7914.3	6749.2	5736.9	5370.0	5405.7	5775.6	5818.3
42.5°	10814.2	10807.1	10131.8	9430.6	9006.6	7821.5	6512.3	5932.5	5908.3	6156.8	6092.5
45°	11976.5	11975.0	11423.9	10634.3	10321.6	9052.3	7514.6	6715.0	6677.9	6776.4	6598.0
47.5°	12471.9	12480.5	12203.6	11648.1	11779.5	10717.1	8778.1	7848.8	7792.9	7753.0	7481.8
50°	12086.4	12103.6	12126.4	12017.9	12848.8	12954.5	10473.0	9446.3	9419.3	9240.8	8816.8
52.5°	10827.1	10914.1	11182.6	11526.7	13220.0	15101.9	13130.2	11431.0	11285.3	11095.5	10628.7
55°	8705.4	8801.1	9310.8	10146.0	12667.4	16512.6	16853.9	13989.7	13746.9	13180.1	12506.3
57.5°	5761.2	5909.7	6649.3	7711.6	11062.6	16739.6	20569.0	17540.7	16695.4	15143.4	14383.8
60°	3174.0	3316.8	4119.3	5081.6	7990.1	15617.5	23067.7	22163.9	20670.4	17337.8	16664.0
62.5°	1954.7	2031.7	2624.3	3519.6	4791.6	12326.4	23584.6	27973.7	26244.6	20163.5	19418.2
65°	1556.4	1589.1	1879.1	2877.0	3435.3	7331.7	21915.5	32402.8	31826.0	23584.6	21884.1
67°	1510.6	1523.4	1660.5	2470.1	3238.3	4494.8	18360.2	33123.8	33709.2	25655.0	21961.1
67.5°	1520.7	1534.9	1664.7	2357.3	3232.6	4130.6	17135.2	32839.7	33579.3	25819.2	21619.9
70°	1466.4	1510.6	1906.2	2355.8	3074.1	3432.5	10261.7	28453.5	29223.0	23990.0	18344.5
72.5°	519.7	522.5	823.8	1906.2	3342.6	3469.6	5152.9	20858.9	21428.6	18351.7	13225.8
75°	308.4	262.8	274.2	542.5	3194.1	3369.6	2972.8	13328.6	13541.4	10515.7	6697.9
77.5°	212.8	185.6	191.2	239.8	1216.5	3322.6	2361.6	6950.5	6723.5	3688.0	1426.4
80°	121.5	107.1	114.3	209.8	442.7	3099.8	2227.3	2818.5	2403.0	625.4	394.0
82.5°	64.3	54.3	65.7	172.7	308.4	1931.8	2231.7	1362.1	1079.5	211.3	268.5
85°	22.8	18.5	31.4	118.4	205.6	592.5	2068.8	1145.1	899.6	102.8	204.2
87.5°	4.3	4.3	12.8	48.6	82.9	181.4	1223.6	679.7	455.5	61.4	140.0
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°	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5
2.5°	5381.4	5320.0	5237.2	5135.8	5015.9	4910.2	4831.8	4750.3	4733.2	4704.7	4700.3
5°	5345.8	5240.1	5034.6	4798.8	4547.6	4320.6	4136.3	3972.1	3899.4	3836.5	3829.4
7.5°	5293.0	5134.4	4784.6	4404.7	4012.1	3655.3	3352.6	3138.3	2941.3	2847.1	2832.7
10°	5231.5	5004.5	4503.4	3976.4	3434.0	2929.8	2480.1	2103.1	1874.8	1739.1	1722.0
12.5°	5174.3	4877.3	4216.4	3532.4	2811.3	2137.4	1559.2	1199.3	959.5	862.5	851.0
15°	5147.3	4774.6	3948.0	3078.3	2160.2	1360.8	852.4	659.6	581.2	558.2	556.9
17.5°	5144.5	4687.4	3685.1	2608.6	1513.5	791.0	555.4	506.9	491.2	485.4	485.4
20°	5142.9	4604.7	3422.5	2121.7	960.8	526.9	462.5	451.2	439.8	432.7	432.7
22.5°	5158.6	4530.4	3148.3	1624.9	605.4	427.0	406.9	395.6	381.2	371.2	369.8
25°	5174.3	4473.3	2868.5	1156.5	438.4	371.2	351.2	335.5	315.6	302.6	301.3
27.5°	5177.2	4402.0	2568.7	773.9	367.0	324.1	298.3	274.2	251.3	238.4	237.1
30°	5134.4	4282.0	2235.9	522.5	324.1	281.3	247.0	221.3	200.0	189.9	189.9
32.5°	5050.2	4133.6	1870.5	394.0	288.4	241.4	204.2	179.9	165.6	161.3	159.9
35°	4974.5	3973.7	1494.9	334.1	258.4	204.2	167.1	151.4	142.8	141.4	140.0
37.5°	4930.3	3845.0	1142.3	302.6	229.8	171.3	141.4	130.0	125.7	122.8	124.2
40°	4964.6	3737.9	843.9	276.9	201.3	142.8	120.0	114.3	110.0	108.5	108.5
42.5°	5114.4	3719.4	626.7	254.1	174.2	118.4	104.3	99.9	97.0	95.7	97.0
45°	5508.4	3833.6	486.9	232.8	147.1	99.9	88.6	87.0	85.7	85.7	85.7
47.5°	6101.0	4069.2	405.5	208.4	122.8	85.7	77.2	75.6	74.2	75.6	75.6
50°	7104.8	4500.5	362.6	184.2	101.4	72.9	65.7	65.7	65.7	65.7	67.2
52.5°	8631.2	5348.6	334.1	159.9	82.9	61.4	55.7	55.7	57.1	57.1	58.5
55°	10331.6	6473.6	308.4	135.6	70.0	51.5	45.8	47.2	48.6	49.9	49.9
57.5°	12176.3	7720.2	287.0	111.4	59.9	41.4	38.5	40.0	41.4	44.2	44.2
60°	14402.3	9069.5	255.6	87.0	49.9	32.9	30.0	32.9	37.1	40.0	41.4
62.5°	16846.8	10374.4	215.7	68.5	41.4	25.7	24.3	30.0	35.8	38.5	40.0
65°	18517.3	10784.2	165.6	55.7	31.4	18.5	20.0	27.0	34.2	38.5	38.5
67°	17840.5	9777.6	135.6	47.2	25.7	14.3	18.5	27.0	34.2	37.1	38.5
67.5°	17370.7	9383.5	130.0	45.8	24.3	14.3	18.5	27.0	34.2	38.5	38.5
70°	14133.9	7049.1	108.5	34.2	20.0	12.8	15.7	25.7	32.9	37.1	37.1
72.5°	9820.5	4346.3	97.0	24.3	17.2	11.4	14.3	24.3	31.4	35.8	37.1
75°	4668.9	1573.4	82.9	18.5	15.7	10.1	12.8	24.3	31.4	35.8	35.8
77.5°	952.4	365.5	67.2	15.7	12.8	10.1	11.4	22.8	30.0	34.2	34.2
80°	312.7	141.4	49.9	14.3	12.8	10.1	11.4	21.4	30.0	32.9	34.2
82.5°	225.7	71.3	32.9	14.3	12.8	10.1	10.1	21.4	28.6	32.9	32.9
85°	172.7	49.9	21.4	14.3	12.8	10.1	10.1	20.0	27.0	31.4	31.4
87.5°	114.3	20.0	17.2	14.3	12.8	10.1	10.1	20.0	25.7	30.0	31.4
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)