

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: P191052

Luminaire Tested: **GAN-AF-04-LED-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191052
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-04-LED-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 20344.4 lumens
Efficiency: N/A
Efficacy: 90.4 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

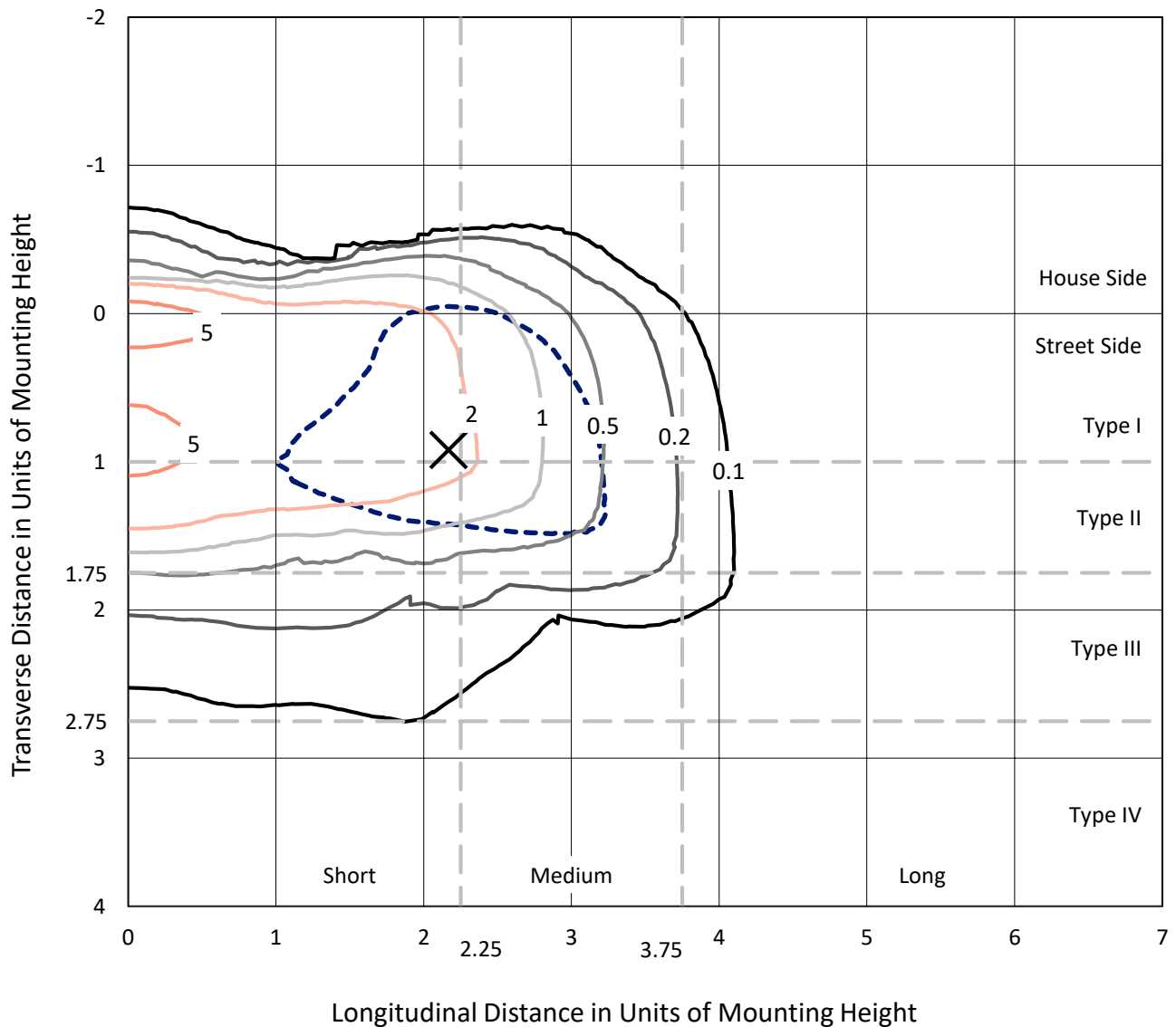
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191052
 CATALOG NUMBER: GAN-AF-04-LED-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

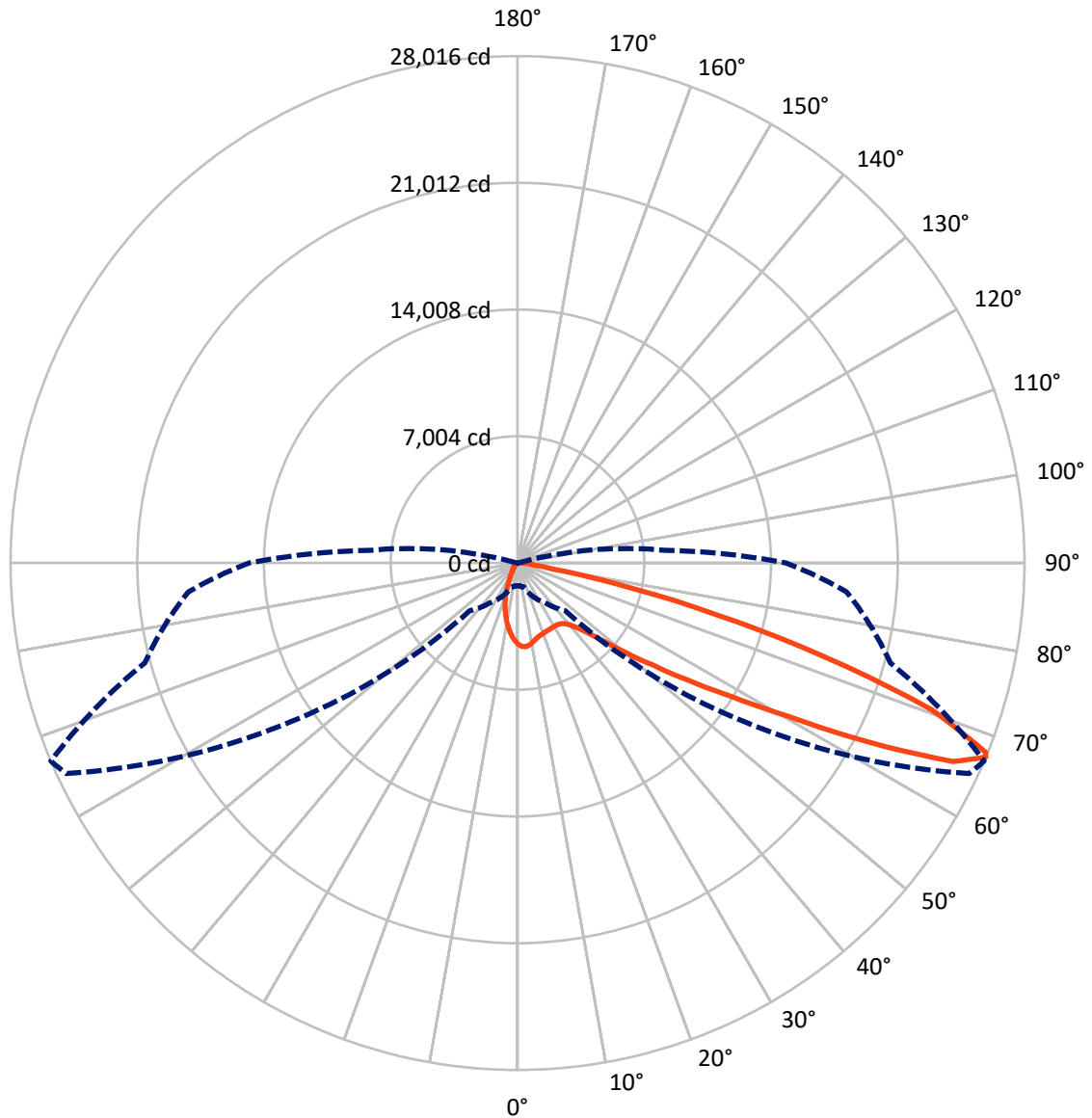
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191052
CATALOG NUMBER: GAN-AF-04-LED-U-SL2-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	2112.3	0.0	2112.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18232.1	0.0	18232.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	20344.4	0.0	20344.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	1.8
10°-20°	777.0	3.8
20°-30°	1129.7	5.6
30°-40°	1762.4	8.7
40°-50°	3122.0	15.3
50°-60°	4940.3	24.3
60°-70°	5658.4	27.8
70°-80°	2347.1	11.5
80°-90°	242.4	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°	20344.4	100.0
0°-180°	20344.4	100.0

Coefficient of Utilization



REPORT NUMBER: P191052

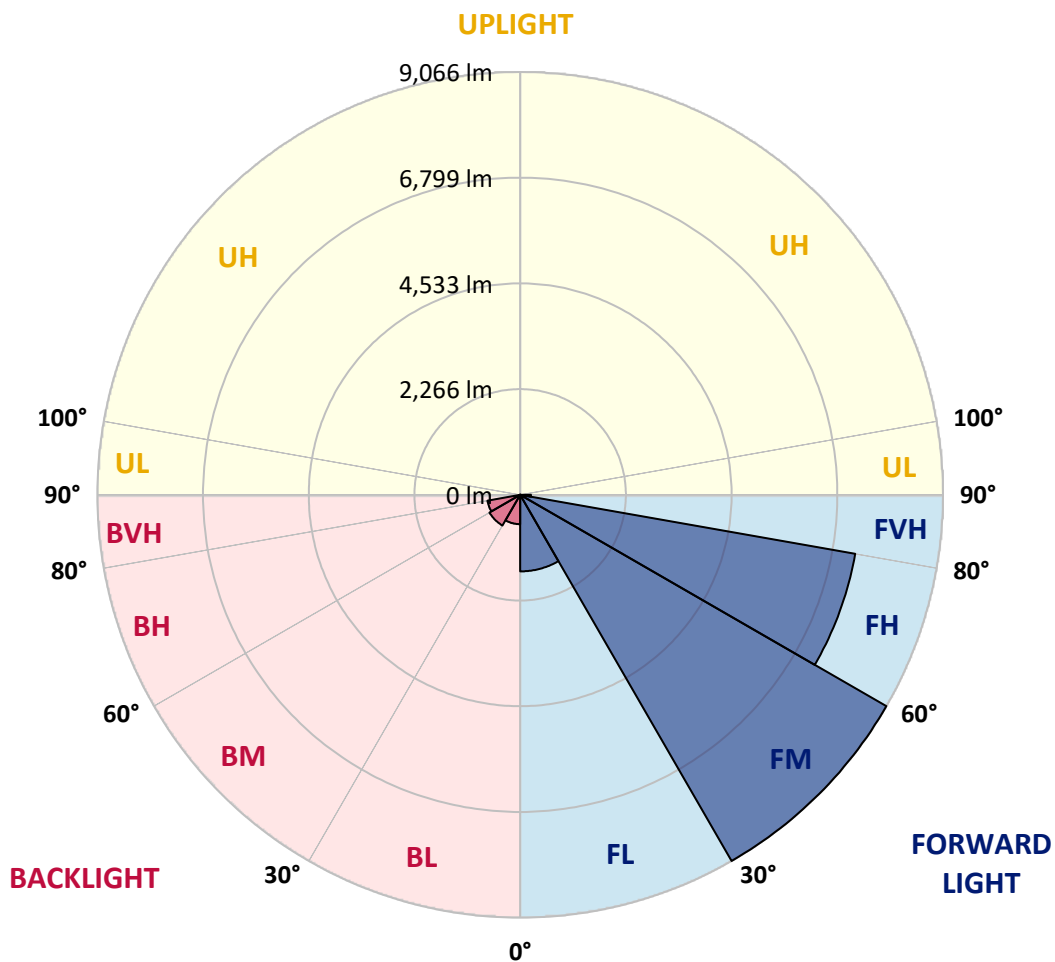
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.5	8.1			
FM	(30°-60°)	9065.5	44.6			
FH	(60°-80°)	7293.5	35.9			G3/7500
FVH	(80°-90°)	231.5	1.1			G3/500
BL	(0°-30°)	630.3	3.1	B2/1000		
BM	(30°-60°)	759.2	3.7	B1/1000		
BH	(60°-80°)	711.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	10.9	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-G3

Type II Short





REPORT NUMBER: P191052

CATALOG NUMBER: GAN-AF-04-LED-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7
2.5°	4638.6	4648.1	4646.9	4654.0	4670.6	4671.8	4655.2	4623.1	4616.1	4574.5	4502.1
5°	4277.9	4305.2	4321.8	4389.4	4465.4	4556.7	4625.6	4650.4	4646.9	4617.2	4508.0
7.5°	3866.0	3893.4	3912.4	3991.9	4092.7	4249.3	4428.6	4575.7	4588.8	4620.8	4503.3
10°	3592.0	3596.7	3622.8	3698.8	3804.4	3964.5	4178.1	4435.7	4474.8	4592.3	4491.5
12.5°	3366.5	3370.1	3404.5	3486.3	3599.0	3760.5	3984.7	4282.6	4343.1	4556.7	4489.1
15°	3206.3	3219.3	3250.2	3335.6	3455.5	3615.7	3845.9	4169.9	4242.3	4543.6	4510.4
17.5°	3152.9	3167.2	3176.7	3238.4	3347.5	3504.1	3740.3	4096.3	4178.1	4550.8	4551.9
20°	3208.7	3219.3	3198.1	3213.4	3281.1	3421.1	3651.3	4033.4	4130.7	4559.1	4605.3
22.5°	3416.3	3421.1	3363.0	3295.3	3283.5	3360.6	3581.2	3983.6	4088.0	4581.6	4668.2
25°	3772.3	3764.0	3669.1	3523.1	3385.5	3349.9	3539.7	3952.7	4066.6	4605.3	4733.5
27.5°	4201.9	4213.7	4083.2	3870.8	3608.6	3421.1	3533.8	3939.7	4057.1	4622.0	4790.5
30°	4724.0	4740.7	4591.1	4324.1	3948.0	3596.7	3588.4	3937.2	4051.2	4611.3	4795.2
32.5°	5256.8	5277.0	5159.6	4884.2	4401.2	3891.0	3711.8	3963.4	4063.1	4574.5	4768.0
35°	5814.6	5843.0	5764.7	5528.5	5015.9	4315.8	3928.9	4042.9	4118.8	4571.0	4740.7
37.5°	6584.7	6610.8	6463.6	6213.3	5759.9	4885.4	4277.9	4192.5	4250.6	4627.9	4747.7
40°	7734.5	7731.0	7351.2	6967.9	6577.6	5609.2	4768.0	4462.9	4492.6	4800.0	4835.6
42.5°	8987.6	8981.7	8420.4	7837.7	7485.3	6500.4	5412.3	4930.5	4910.4	5116.8	5063.4
45°	9953.6	9952.4	9494.3	8838.1	8578.3	7523.3	6245.3	5580.8	5549.9	5631.9	5483.5
47.5°	10365.4	10372.4	10142.3	9680.6	9789.8	8906.9	7295.5	6522.9	6476.7	6443.5	6218.0
50°	10045.0	10059.2	10078.2	9988.0	10678.6	10766.5	8704.1	7850.8	7828.3	7680.0	7327.5
52.5°	8998.3	9070.7	9293.8	9579.7	10987.1	12551.1	10912.4	9500.2	9379.2	9221.4	8833.4
55°	7234.9	7314.5	7738.1	8432.3	10527.9	13723.5	14007.2	11626.8	11425.0	10954.0	10393.8
57.5°	4788.1	4911.5	5526.2	6409.1	9194.1	13912.2	17094.8	14578.0	13875.4	12585.6	11954.2
60°	2637.9	2756.5	3423.5	4223.3	6640.5	12979.5	19171.4	18420.3	17179.0	14409.4	13849.3
62.5°	1624.5	1688.6	2181.0	2925.1	3982.3	10244.3	19601.0	23248.7	21811.7	16757.8	16138.4
65°	1293.4	1320.7	1561.6	2391.0	2855.1	6093.4	18213.8	26929.7	26450.3	19601.0	18187.7
67°	1255.5	1266.1	1380.1	2052.9	2691.3	3735.5	15259.1	27528.9	28015.5	21321.7	18251.8
67.5°	1263.8	1275.6	1383.6	1959.2	2686.6	3432.9	14240.9	27292.8	27907.5	21458.1	17968.1
70°	1218.6	1255.5	1584.1	1957.9	2554.8	2852.7	8528.4	23647.5	24287.0	19938.0	15246.0
72.5°	431.9	434.3	684.7	1584.1	2777.9	2883.6	4282.6	17335.6	17809.2	15251.9	10991.9
75°	256.4	218.3	227.8	450.9	2654.6	2800.4	2470.6	11077.3	11254.1	8739.7	5566.6
77.5°	176.8	154.3	159.0	199.4	1011.0	2761.4	1962.7	5776.6	5587.9	3065.1	1185.5
80°	100.9	89.0	94.9	174.4	367.9	2576.2	1851.1	2342.5	1997.1	519.8	327.5
82.5°	53.4	45.1	54.6	143.6	256.4	1605.5	1854.7	1132.1	897.1	175.6	223.1
85°	19.0	15.4	26.1	98.5	170.8	492.4	1719.5	951.7	747.6	85.4	169.7
87.5°	3.6	3.6	10.6	40.3	68.8	150.7	1016.9	564.9	378.5	51.0	116.3
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°	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7
2.5°	4472.4	4421.4	4352.7	4268.4	4168.7	4080.9	4015.6	3948.0	3933.8	3910.0	3906.4
5°	4442.8	4355.0	4184.1	3988.3	3779.5	3590.8	3437.7	3301.3	3240.7	3188.5	3182.6
7.5°	4398.9	4267.1	3976.4	3660.8	3334.5	3037.9	2786.2	2608.2	2444.4	2366.2	2354.3
10°	4347.8	4159.2	3742.7	3304.8	2853.8	2435.0	2061.2	1747.9	1558.1	1445.3	1431.1
12.5°	4300.4	4053.5	3504.1	2935.8	2336.5	1776.5	1295.8	996.8	797.4	716.8	707.3
15°	4277.9	3968.1	3281.1	2558.4	1795.4	1130.9	708.4	548.2	482.9	464.0	462.8
17.5°	4275.5	3895.7	3062.7	2168.0	1257.8	657.5	461.6	421.3	408.2	403.5	403.5
20°	4274.3	3827.0	2844.4	1763.4	798.6	437.8	384.4	375.0	365.5	359.6	359.6
22.5°	4287.4	3765.2	2616.5	1350.4	503.1	354.8	338.2	328.7	316.8	308.5	307.3
25°	4300.4	3717.7	2384.0	961.2	364.3	308.5	292.0	278.9	262.3	251.5	250.4
27.5°	4302.7	3658.4	2134.8	643.1	304.9	269.3	248.0	227.8	208.9	198.1	197.0
30°	4267.1	3558.7	1858.3	434.3	269.3	233.7	205.3	183.9	166.1	157.8	157.8
32.5°	4197.2	3435.4	1554.5	327.5	239.7	200.5	169.7	149.6	137.7	134.1	132.9
35°	4134.3	3302.4	1242.4	277.6	214.8	169.7	138.8	125.8	118.7	117.4	116.3
37.5°	4097.5	3195.6	949.3	251.5	191.1	142.4	117.4	108.0	104.4	102.1	103.2
40°	4126.0	3106.6	701.3	230.2	167.4	118.7	99.6	94.9	91.3	90.2	90.2
42.5°	4250.6	3091.3	520.9	211.2	144.7	98.5	86.6	83.1	80.7	79.5	80.7
45°	4578.1	3186.2	404.7	193.4	122.2	83.1	73.6	72.4	71.2	71.2	71.2
47.5°	5070.6	3382.0	337.0	173.3	102.1	71.2	64.0	62.9	61.7	62.9	62.9
50°	5904.8	3740.3	301.4	153.0	84.3	60.6	54.6	54.6	54.6	54.6	55.8
52.5°	7173.2	4445.1	277.6	132.9	68.8	51.0	46.2	46.2	47.5	47.5	48.7
55°	8586.5	5380.2	256.4	112.7	58.1	42.8	38.0	39.2	40.3	41.5	41.5
57.5°	10119.7	6416.2	238.6	92.6	49.8	34.4	32.0	33.2	34.4	36.8	36.8
60°	11969.6	7537.6	212.4	72.4	41.5	27.3	25.0	27.3	30.9	33.2	34.4
62.5°	14001.2	8622.1	179.2	57.0	34.4	21.4	20.2	25.0	29.7	32.0	33.2
65°	15389.6	8962.7	137.7	46.2	26.1	15.4	16.6	22.5	28.4	32.0	32.0
67°	14827.2	8126.1	112.7	39.2	21.4	11.9	15.4	22.5	28.4	30.9	32.0
67.5°	14436.7	7798.7	108.0	38.0	20.2	11.9	15.4	22.5	28.4	32.0	32.0
70°	11746.5	5858.4	90.2	28.4	16.6	10.6	13.1	21.4	27.3	30.9	30.9
72.5°	8161.7	3612.1	80.7	20.2	14.2	9.5	11.9	20.2	26.1	29.7	30.9
75°	3880.4	1307.6	68.8	15.4	13.1	8.3	10.6	20.2	26.1	29.7	29.7
77.5°	791.5	303.8	55.8	13.1	10.6	8.3	9.5	19.0	25.0	28.4	28.4
80°	259.8	117.4	41.5	11.9	10.6	8.3	9.5	17.8	25.0	27.3	28.4
82.5°	187.5	59.3	27.3	11.9	10.6	8.3	8.3	17.8	23.7	27.3	27.3
85°	143.6	41.5	17.8	11.9	10.6	8.3	8.3	16.6	22.5	26.1	26.1
87.5°	94.9	16.6	14.2	11.9	10.6	8.3	8.3	16.6	21.4	25.0	26.1
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)