

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: P191045

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191045
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-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 28821.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

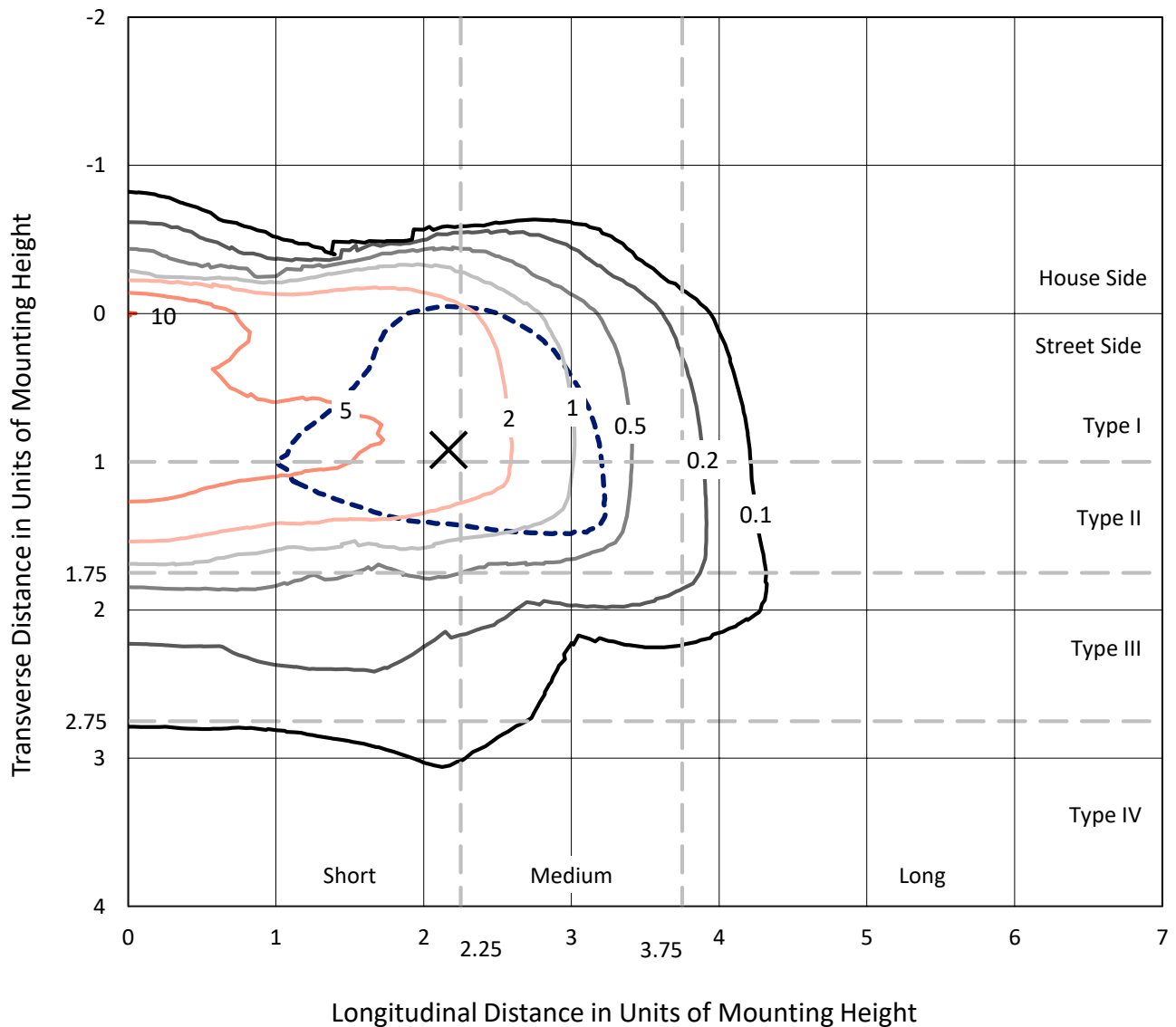
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191045
 CATALOG NUMBER: GAN-AF-07-LED-U-SL2-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

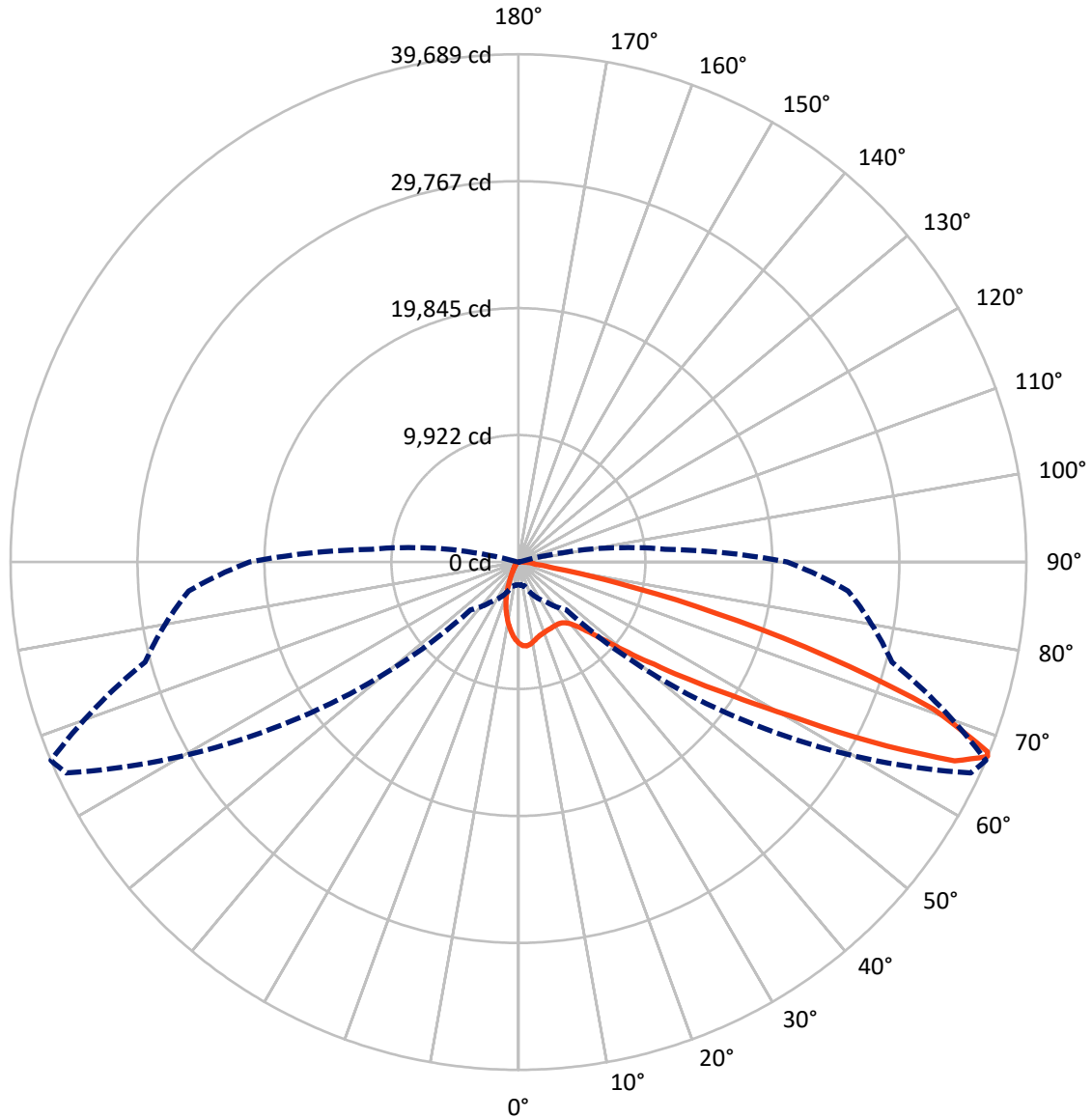
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191045
CATALOG NUMBER: GAN-AF-07-LED-U-SL2-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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CATALOG NUMBER: GAN-AF-07-LED-U-SL2-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.5	0.0	2992.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25829.1	0.0	25829.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	28821.6	0.0	28821.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.2	1.8
10°-20°	1100.8	3.8
20°-30°	1600.5	5.6
30°-40°	2496.8	8.7
40°-50°	4422.9	15.3
50°-60°	6998.8	24.3
60°-70°	8016.2	27.8
70°-80°	3325.1	11.5
80°-90°	343.5	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°	28821.6	100.0
0°-180°	28821.6	100.0

Coefficient of Utilization



REPORT NUMBER: P191045

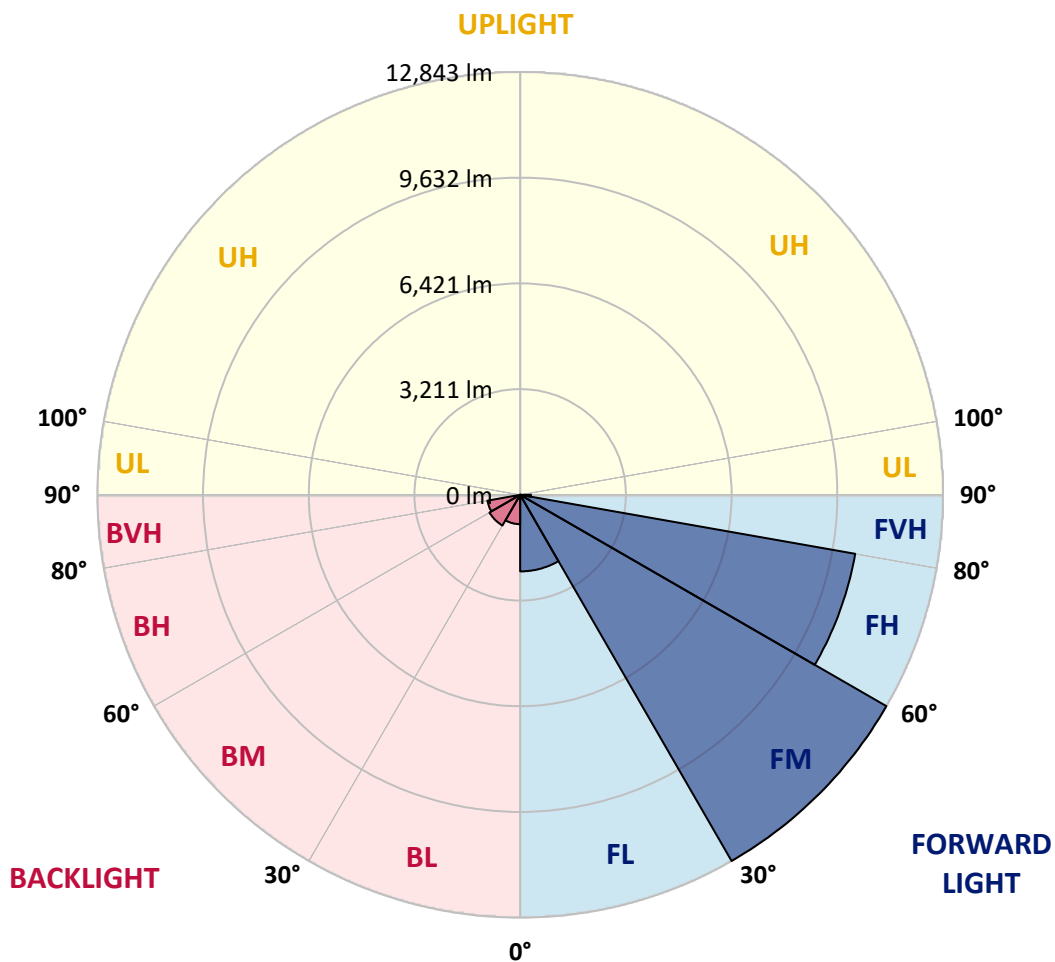
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2325.5	8.1			
FM	(30°-60°)	12843.0	44.6			
FH	(60°-80°)	10332.6	35.9			G4/12000
FVH	(80°-90°)	328.0	1.1			G3/500
BL	(0°-30°)	893.0	3.1	B2/1000		
BM	(30°-60°)	1075.5	3.7	B2/2500		
BH	(60°-80°)	1008.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	15.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P191045

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2
2.5°	6571.4	6584.8	6583.2	6593.2	6616.9	6618.5	6595.0	6549.5	6539.5	6480.6	6378.1
5°	6060.4	6099.0	6122.6	6218.4	6325.9	6455.4	6552.9	6588.2	6583.2	6541.2	6386.5
7.5°	5477.0	5515.6	5542.6	5655.2	5798.1	6020.1	6273.9	6482.3	6500.9	6546.2	6379.7
10°	5088.7	5095.4	5132.3	5240.0	5389.6	5616.5	5919.1	6284.0	6339.4	6505.9	6363.0
12.5°	4769.3	4774.3	4823.1	4939.1	5098.8	5327.4	5645.2	6067.1	6152.8	6455.4	6359.6
15°	4542.3	4560.8	4604.5	4725.5	4895.3	5122.3	5448.4	5907.3	6009.9	6436.9	6389.9
17.5°	4466.7	4486.9	4500.3	4587.7	4742.4	4964.3	5298.8	5803.2	5919.1	6447.0	6448.7
20°	4545.7	4560.8	4530.5	4552.4	4648.3	4846.6	5172.8	5714.1	5851.9	6458.8	6524.4
22.5°	4839.9	4846.6	4764.2	4668.4	4651.6	4760.9	5073.5	5643.4	5791.4	6490.7	6613.5
25°	5344.2	5332.4	5197.9	4991.2	4796.2	4745.8	5014.7	5599.7	5761.2	6524.4	6706.0
27.5°	5952.8	5969.6	5784.7	5483.7	5112.2	4846.6	5006.3	5581.2	5747.7	6547.9	6786.6
30°	6692.5	6716.0	6504.1	6125.9	5593.0	5095.4	5083.7	5577.8	5739.3	6532.8	6793.3
32.5°	7447.3	7475.8	7309.4	6919.4	6235.2	5512.4	5258.5	5614.9	5756.0	6480.6	6754.6
35°	8237.4	8277.7	8166.8	7832.2	7106.0	6114.2	5566.1	5727.5	5835.1	6475.6	6716.0
37.5°	9328.4	9365.4	9156.9	8802.2	8160.1	6921.1	6060.4	5939.4	6021.7	6556.3	6726.1
40°	10957.4	10952.3	10414.5	9871.4	9318.4	7946.6	6754.6	6322.7	6364.6	6800.1	6850.5
42.5°	12732.7	12724.3	11929.0	11103.6	10604.4	9209.0	7667.5	6985.0	6956.4	7248.9	7173.2
45°	14101.1	14099.3	13450.5	12520.8	12152.7	10658.1	8847.6	7906.2	7862.5	7978.5	7768.4
47.5°	14684.4	14694.5	14368.4	13714.4	13869.1	12618.3	10335.4	9241.0	9175.5	9128.4	8808.9
50°	14230.5	14250.7	14277.5	14149.8	15128.2	15252.6	12330.9	11122.1	11090.2	10880.1	10380.8
52.5°	12747.8	12850.3	13166.4	13571.5	15565.3	17781.0	15459.3	13458.9	13287.4	13063.8	12514.1
55°	10249.7	10362.3	10962.5	11945.9	14914.7	19441.9	19843.7	16471.5	16185.6	15518.3	14724.8
57.5°	6783.2	6958.1	7828.8	9079.6	13025.1	19709.2	24218.0	20652.3	19657.1	17829.7	16935.4
60°	3737.0	3905.2	4850.0	5983.0	9407.5	18387.8	27159.9	26095.7	24337.2	20413.6	19620.1
62.5°	2301.4	2392.2	3089.8	4143.9	5641.8	14512.9	27768.4	32936.0	30900.3	23740.4	22863.0
65°	1832.4	1871.1	2212.3	3387.4	4044.7	8632.5	25803.2	38150.8	37471.7	27768.4	25766.2
67°	1778.6	1793.7	1955.2	2908.4	3812.7	5292.1	21617.3	38999.8	39689.1	30206.0	25857.0
67.5°	1790.4	1807.1	1960.2	2775.5	3806.0	4863.4	20174.8	38665.3	39536.1	30399.3	25455.2
70°	1726.5	1778.6	2244.3	2773.8	3619.4	4041.4	12082.1	33500.9	34407.1	28245.8	21598.8
72.5°	611.9	615.3	970.0	2244.3	3935.5	4085.1	6067.1	24559.2	25230.0	21607.2	15572.0
75°	363.1	309.3	322.7	638.8	3760.6	3967.4	3500.0	15693.1	15943.5	12381.3	7886.0
77.5°	250.5	218.5	225.3	282.4	1432.3	3912.0	2780.6	8183.6	7916.3	4342.3	1679.4
80°	142.9	126.1	134.5	247.1	521.1	3649.7	2622.5	3318.5	2829.3	736.3	464.0
82.5°	75.7	63.8	77.3	203.4	363.1	2274.5	2627.6	1603.8	1270.9	248.8	316.1
85°	26.9	21.9	37.0	139.5	242.0	697.7	2436.0	1348.2	1059.1	121.0	240.4
87.5°	5.0	5.0	15.1	57.2	97.5	213.5	1440.7	800.2	536.2	72.3	164.8
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: P191045

CATALOG NUMBER: GAN-AF-07-LED-U-SL2-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2	6356.2
2.5°	6336.1	6263.7	6166.2	6046.9	5905.7	5781.3	5688.8	5593.0	5572.8	5539.2	5534.2
5°	6294.0	6169.6	5927.6	5650.2	5354.3	5087.0	4870.2	4676.8	4591.1	4517.1	4508.8
7.5°	6231.8	6045.2	5633.4	5186.2	4723.9	4303.7	3947.3	3695.1	3463.1	3352.1	3335.3
10°	6159.6	5892.3	5302.2	4681.8	4043.0	3449.6	2920.1	2476.3	2207.3	2047.5	2027.4
12.5°	6092.3	5742.6	4964.3	4159.0	3310.1	2516.6	1835.8	1412.1	1129.7	1015.4	1002.0
15°	6060.4	5621.6	4648.3	3624.4	2543.5	1602.0	1003.6	776.6	684.3	657.3	655.6
17.5°	6057.0	5519.0	4338.9	3071.4	1782.0	931.3	654.0	596.8	578.3	571.5	571.5
20°	6055.4	5421.5	4029.6	2498.1	1131.4	620.3	544.7	531.2	517.8	509.3	509.3
22.5°	6073.8	5334.2	3706.9	1913.1	712.8	502.7	479.2	465.6	448.9	437.1	435.4
25°	6092.3	5266.9	3377.4	1361.6	516.1	437.1	413.6	395.1	371.5	356.4	354.8
27.5°	6095.7	5182.8	3024.3	911.1	432.0	381.6	351.4	322.7	295.8	280.7	279.1
30°	6045.2	5041.6	2632.6	615.3	381.6	331.1	290.8	260.5	235.4	223.6	223.6
32.5°	5946.0	4866.8	2202.2	464.0	339.6	284.1	240.4	211.9	195.0	190.0	188.3
35°	5856.9	4678.5	1760.1	393.4	304.3	240.4	196.7	178.2	168.1	166.4	164.8
37.5°	5804.8	4527.2	1344.9	356.4	270.7	201.7	166.4	152.9	147.9	144.5	146.3
40°	5845.1	4401.1	993.5	326.1	237.0	168.1	141.2	134.5	129.4	127.8	127.8
42.5°	6021.7	4379.3	738.0	299.2	205.1	139.5	122.8	117.6	114.3	112.6	114.3
45°	6485.7	4513.8	573.3	274.0	173.2	117.6	104.2	102.5	100.9	100.9	100.9
47.5°	7183.4	4791.1	477.4	245.4	144.5	100.9	90.7	89.1	87.5	89.1	89.1
50°	8365.2	5298.8	427.0	216.9	119.4	85.7	77.3	77.3	77.3	77.3	79.0
52.5°	10162.2	6297.4	393.4	188.3	97.5	72.3	65.6	65.6	67.2	67.2	68.9
55°	12164.4	7622.1	363.1	159.7	82.3	60.6	53.8	55.4	57.2	58.8	58.8
57.5°	14336.5	9089.7	337.9	131.1	70.6	48.8	45.4	47.1	48.8	52.1	52.1
60°	16957.3	10678.4	301.0	102.5	58.8	38.7	35.3	38.7	43.7	47.1	48.8
62.5°	19835.3	12214.9	253.9	80.7	48.8	30.3	28.5	35.3	42.0	45.4	47.1
65°	21802.2	12697.4	195.0	65.6	37.0	21.9	23.5	31.9	40.3	45.4	45.4
67°	21005.4	11512.2	159.7	55.4	30.3	16.8	21.9	31.9	40.3	43.7	45.4
67.5°	20452.3	11048.2	152.9	53.8	28.5	16.8	21.9	31.9	40.3	45.4	45.4
70°	16641.2	8299.6	127.8	40.3	23.5	15.1	18.5	30.3	38.7	43.7	43.7
72.5°	11562.6	5117.3	114.3	28.5	20.2	13.4	16.8	28.5	37.0	42.0	43.7
75°	5497.2	1852.6	97.5	21.9	18.5	11.8	15.1	28.5	37.0	42.0	42.0
77.5°	1121.3	430.4	79.0	18.5	15.1	11.8	13.4	26.9	35.3	40.3	40.3
80°	368.2	166.4	58.8	16.8	15.1	11.8	13.4	25.3	35.3	38.7	40.3
82.5°	265.7	84.1	38.7	16.8	15.1	11.8	11.8	25.3	33.7	38.7	38.7
85°	203.4	58.8	25.3	16.8	15.1	11.8	11.8	23.5	31.9	37.0	37.0
87.5°	134.5	23.5	20.2	16.8	15.1	11.8	11.8	23.5	30.3	35.3	37.0
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)