

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: P192786

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192786
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-08-LED-U-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 30875.6 lumens
Efficiency: N/A
Efficacy: 92.4 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): 334
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

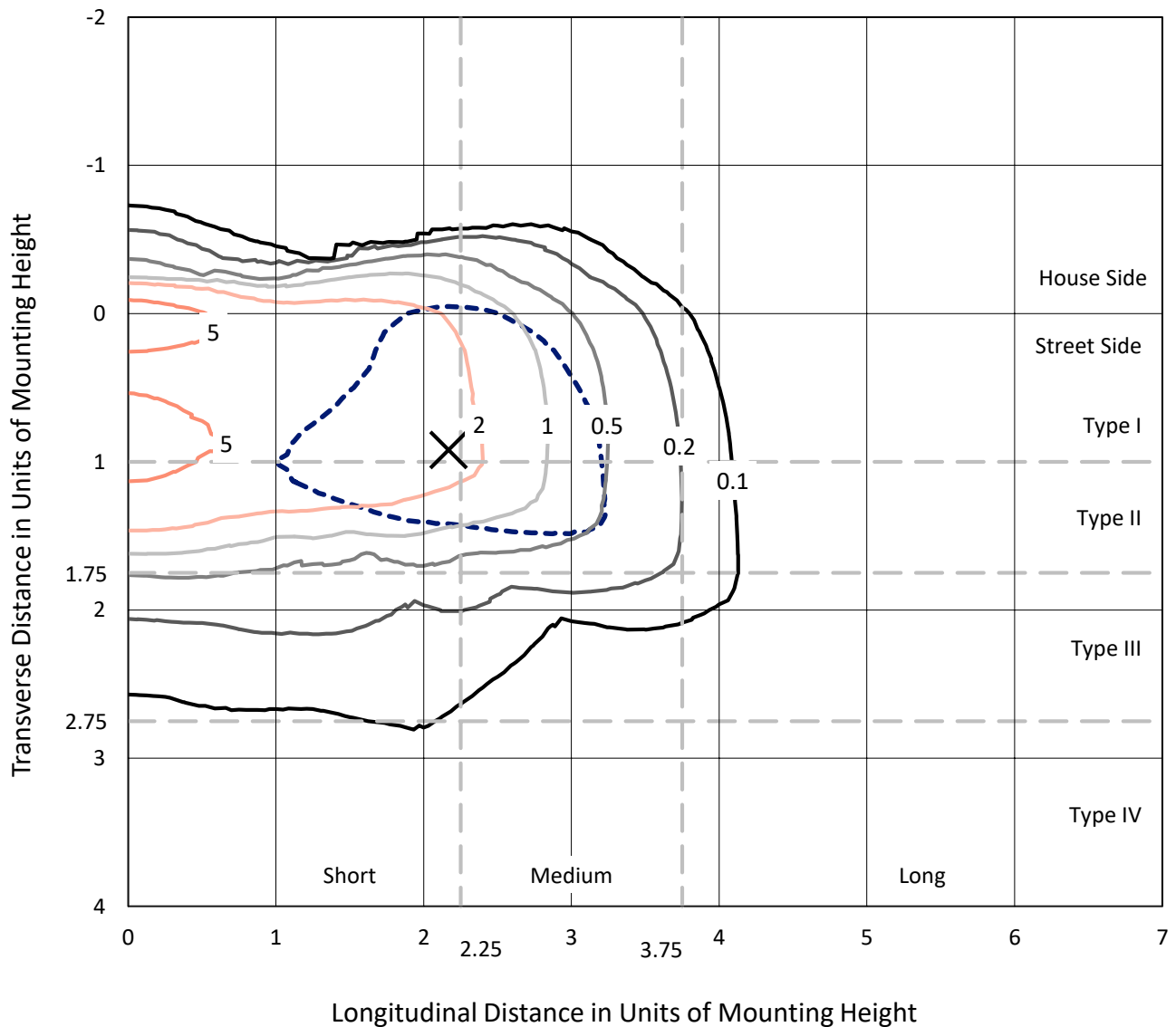


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

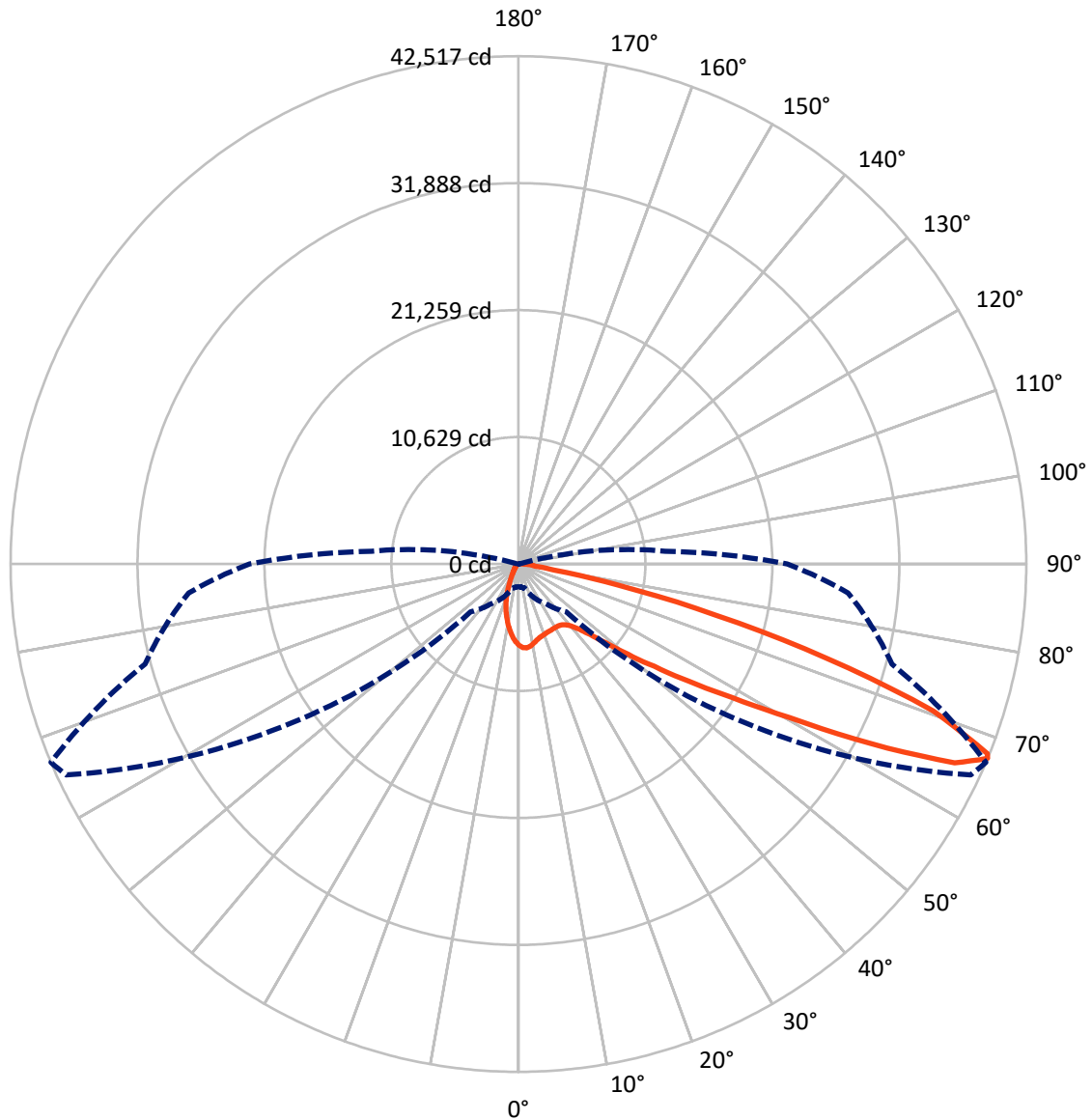


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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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	3205.8	0.0	3205.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27669.8	0.0	27669.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	30875.6	0.0	30875.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.1	1.8
10°-20°	1179.2	3.8
20°-30°	1714.5	5.6
30°-40°	2674.7	8.7
40°-50°	4738.1	15.3
50°-60°	7497.6	24.3
60°-70°	8587.4	27.8
70°-80°	3562.0	11.5
80°-90°	367.9	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°	30875.6	100.0
0°-180°	30875.6	100.0

Coefficient of Utilization



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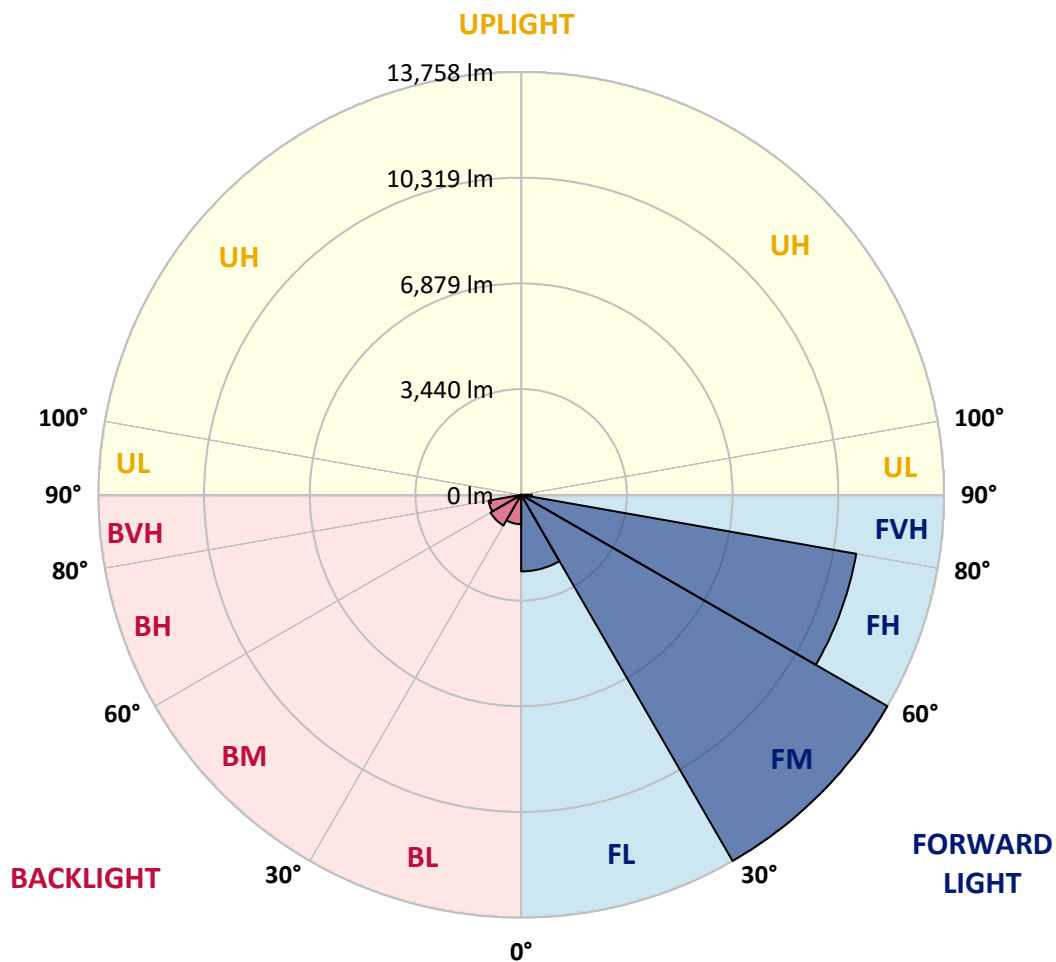
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.2	8.1			
FM (30°-60°)	13758.2	44.6			
FH (60°-80°)	11069.0	35.9			G4/12000
FVH (80°-90°)	351.4	1.1			G3/500
BL (0°-30°)	956.6	3.1	B2/1000		
BM (30°-60°)	1152.1	3.7	B2/2500		
BH (60°-80°)	1080.5	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2
2.5°	7039.7	7054.1	7052.3	7063.2	7088.3	7090.2	7064.9	7016.3	7005.4	6942.5	6832.6
5°	6492.3	6533.7	6558.9	6661.5	6776.8	6915.4	7019.9	7057.7	7052.3	7007.4	6841.6
7.5°	5867.3	5908.7	5937.5	6058.2	6211.3	6449.0	6721.0	6944.3	6964.0	7012.7	6834.3
10°	5451.3	5458.5	5498.2	5613.4	5773.7	6016.8	6341.0	6731.8	6791.2	6969.5	6816.3
12.5°	5109.2	5114.5	5166.8	5291.1	5462.1	5707.0	6047.4	6499.4	6591.3	6915.4	6812.8
15°	4866.1	4885.8	4932.6	5062.3	5244.2	5487.3	5836.7	6328.4	6438.2	6895.7	6845.2
17.5°	4785.0	4806.7	4821.1	4914.7	5080.3	5318.0	5676.4	6216.8	6341.0	6906.5	6908.3
20°	4869.6	4885.8	4853.4	4876.8	4979.5	5192.0	5541.4	6121.2	6269.0	6919.1	6989.4
22.5°	5184.8	5192.0	5103.7	5001.2	4983.1	5100.1	5435.1	6045.7	6204.1	6953.3	7084.7
25°	5725.0	5712.4	5568.4	5346.8	5137.9	5084.0	5372.1	5998.8	6171.7	6989.4	7183.8
27.5°	6377.0	6395.0	6196.8	5874.6	5476.5	5192.0	5363.1	5979.0	6157.3	7014.6	7270.2
30°	7169.4	7194.6	6967.7	6562.4	5991.6	5458.5	5445.9	5975.4	6148.2	6998.3	7277.4
32.5°	7978.0	8008.6	7830.3	7412.4	6679.6	5905.1	5633.2	6015.0	6166.3	6942.5	7236.0
35°	8824.5	8867.6	8748.8	8390.3	7612.4	6549.9	5962.9	6135.7	6250.9	6937.1	7194.6
37.5°	9993.2	10032.8	9809.6	9429.5	8741.7	7414.4	6492.3	6362.6	6450.7	7023.5	7205.4
40°	11738.3	11733.0	11156.6	10574.8	9982.4	8512.8	7236.0	6773.2	6818.3	7284.7	7338.6
42.5°	13640.0	13630.9	12779.2	11894.9	11360.1	9865.3	8213.9	7482.7	7452.1	7765.5	7684.4
45°	15105.9	15104.1	14409.0	13413.1	13018.7	11417.7	9478.1	8469.7	8422.8	8547.1	8321.9
47.5°	15730.8	15741.6	15392.3	14691.8	14857.4	13517.5	11071.9	9899.6	9829.3	9778.9	9436.7
50°	15244.6	15266.2	15295.1	15158.2	16206.3	16339.6	13209.6	11914.7	11880.6	11655.4	11120.5
52.5°	13656.2	13766.1	14104.6	14538.7	16674.5	19048.1	16561.1	14418.0	14234.3	13994.8	13405.9
55°	10980.1	11100.7	11743.6	12797.2	15977.6	20827.4	21257.8	17645.3	17339.1	16624.2	15774.1
57.5°	7266.7	7453.8	8386.7	9726.7	13953.4	21113.8	25943.7	22124.0	21058.0	19100.3	18142.3
60°	4003.4	4183.5	5195.6	6409.3	10077.8	19698.3	29095.3	27955.4	26071.7	21868.4	21018.3
62.5°	2465.4	2562.6	3310.0	4439.2	6043.7	15547.1	29747.3	35283.2	33102.4	25432.3	24492.2
65°	1963.0	2004.4	2370.0	3628.8	4333.0	9247.6	27642.0	40869.6	40142.1	29747.3	27602.3
67°	1905.4	1921.6	2094.5	3115.5	4084.4	5669.3	23157.8	41779.1	42517.4	32358.5	27699.6
67.5°	1917.9	1936.0	2099.9	2973.3	4077.2	5210.0	21612.6	41420.7	42353.6	32565.7	27269.3
70°	1849.5	1905.4	2404.2	2971.6	3877.4	4329.4	12943.1	35888.4	36859.0	30258.7	23138.0
72.5°	655.5	659.2	1039.2	2404.2	4215.9	4376.2	6499.4	26309.3	27027.9	23147.0	16681.7
75°	389.0	331.4	345.8	684.3	4028.6	4250.0	3749.4	16811.4	17079.7	13263.6	8448.0
77.5°	268.3	234.2	241.4	302.5	1534.3	4190.7	2978.7	8766.8	8480.4	4651.7	1799.1
80°	153.1	135.1	144.1	264.7	558.4	3909.8	2809.4	3555.0	3031.0	788.8	497.0
82.5°	81.1	68.4	82.8	217.9	389.0	2436.6	2814.8	1718.1	1361.5	266.5	338.6
85°	28.9	23.4	39.7	149.4	259.4	747.4	2609.5	1444.3	1134.5	129.7	257.6
87.5°	5.4	5.4	16.2	61.1	104.5	228.7	1543.4	857.2	574.4	77.5	176.5
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°	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2	6809.2
2.5°	6787.6	6710.1	6605.7	6477.9	6326.5	6193.3	6094.3	5991.6	5970.0	5934.0	5928.5
5°	6742.6	6609.3	6349.9	6052.9	5735.9	5449.6	5217.2	5010.1	4918.3	4839.0	4830.1
7.5°	6676.0	6476.1	6034.8	5555.8	5060.6	4610.3	4228.6	3958.4	3709.9	3591.1	3573.0
10°	6598.5	6312.1	5680.1	5015.5	4331.1	3695.4	3128.2	2652.7	2364.6	2193.5	2171.8
12.5°	6526.5	6151.9	5318.0	4455.4	3546.0	2696.0	1966.5	1512.8	1210.1	1087.7	1073.4
15°	6492.3	6022.3	4979.5	3882.7	2724.8	1716.3	1075.1	832.0	733.0	704.1	702.3
17.5°	6488.7	5912.3	4648.1	3290.3	1909.0	997.6	700.6	639.2	619.5	612.3	612.3
20°	6486.8	5807.9	4316.8	2676.1	1212.0	664.6	583.5	569.1	554.7	545.6	545.6
22.5°	6506.6	5714.3	3971.0	2049.3	763.6	538.4	513.3	498.9	480.8	468.2	466.4
25°	6526.5	5642.2	3618.0	1458.7	552.9	468.2	443.0	423.2	398.0	381.8	380.0
27.5°	6530.1	5552.2	3239.9	976.1	462.8	408.8	376.4	345.8	317.0	300.8	299.0
30°	6476.1	5400.9	2820.2	659.2	408.8	354.8	311.6	279.1	252.2	239.5	239.5
32.5°	6369.9	5213.7	2359.1	497.0	363.9	304.4	257.6	226.9	208.9	203.5	201.7
35°	6274.3	5011.9	1885.6	421.4	325.9	257.6	210.7	190.8	180.1	178.3	176.5
37.5°	6218.5	4849.8	1440.7	381.8	290.0	216.2	178.3	163.9	158.4	154.9	156.7
40°	6261.7	4714.7	1064.3	349.4	253.9	180.1	151.4	144.1	138.6	136.9	136.9
42.5°	6450.7	4691.4	790.6	320.5	219.7	149.4	131.4	126.0	122.5	120.6	122.5
45°	6947.9	4835.4	614.1	293.6	185.5	126.0	111.7	109.8	108.0	108.0	108.0
47.5°	7695.2	5132.6	511.5	262.9	154.9	108.0	97.2	95.5	93.6	95.5	95.5
50°	8961.2	5676.4	457.5	232.2	127.9	91.9	82.8	82.8	82.8	82.8	84.6
52.5°	10886.5	6746.2	421.4	201.7	104.5	77.5	70.3	70.3	72.0	72.0	73.9
55°	13031.4	8165.3	389.0	171.1	88.3	64.8	57.6	59.4	61.1	63.1	63.1
57.5°	15358.0	9737.5	361.9	140.5	75.6	52.2	48.6	50.5	52.2	55.8	55.8
60°	18165.7	11439.3	322.4	109.8	63.1	41.4	37.8	41.4	46.9	50.5	52.2
62.5°	21248.8	13085.3	271.9	86.5	52.2	32.4	30.6	37.8	45.1	48.6	50.5
65°	23356.0	13602.2	208.9	70.3	39.7	23.4	25.2	34.2	43.2	48.6	48.6
67°	22502.3	12332.5	171.1	59.4	32.4	18.0	23.4	34.2	43.2	46.9	48.6
67.5°	21909.8	11835.5	163.9	57.6	30.6	18.0	23.4	34.2	43.2	48.6	48.6
70°	17827.1	8891.1	136.9	43.2	25.2	16.2	19.7	32.4	41.4	46.9	46.9
72.5°	12386.6	5482.0	122.5	30.6	21.7	14.4	18.0	30.6	39.7	45.1	46.9
75°	5889.0	1984.5	104.5	23.4	19.7	12.6	16.2	30.6	39.7	45.1	45.1
77.5°	1201.2	461.1	84.6	19.7	16.2	12.6	14.4	28.9	37.8	43.2	43.2
80°	394.4	178.3	63.1	18.0	16.2	12.6	14.4	27.0	37.8	41.4	43.2
82.5°	284.5	90.0	41.4	18.0	16.2	12.6	12.6	27.0	36.0	41.4	41.4
85°	217.9	63.1	27.0	18.0	16.2	12.6	12.6	25.2	34.2	39.7	39.7
87.5°	144.1	25.2	21.7	18.0	16.2	12.6	12.6	25.2	32.4	37.8	39.7
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)