

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: P192785

Luminaire Tested: **GAN-AF-07-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192785
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-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 27250.4 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: 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

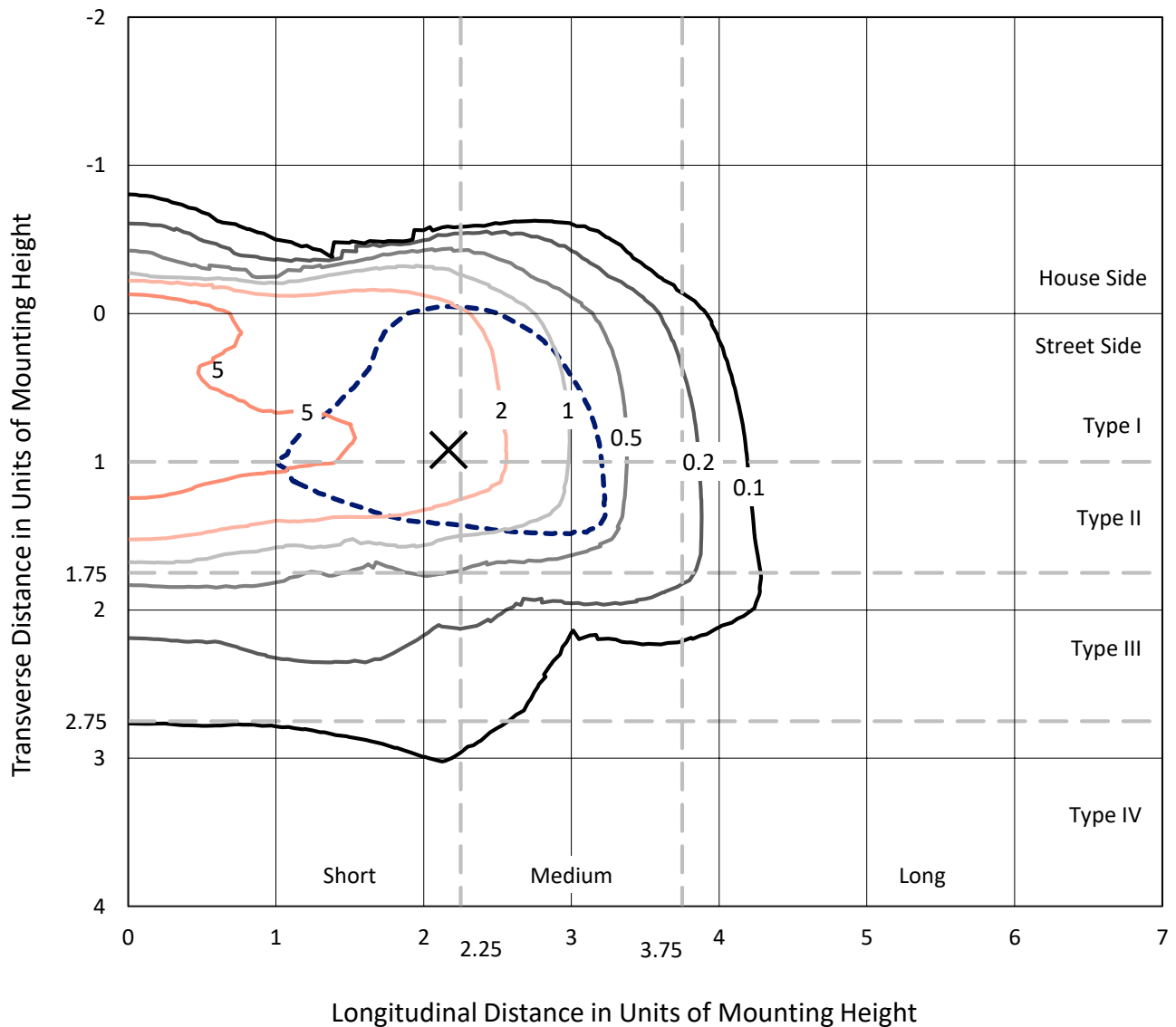


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

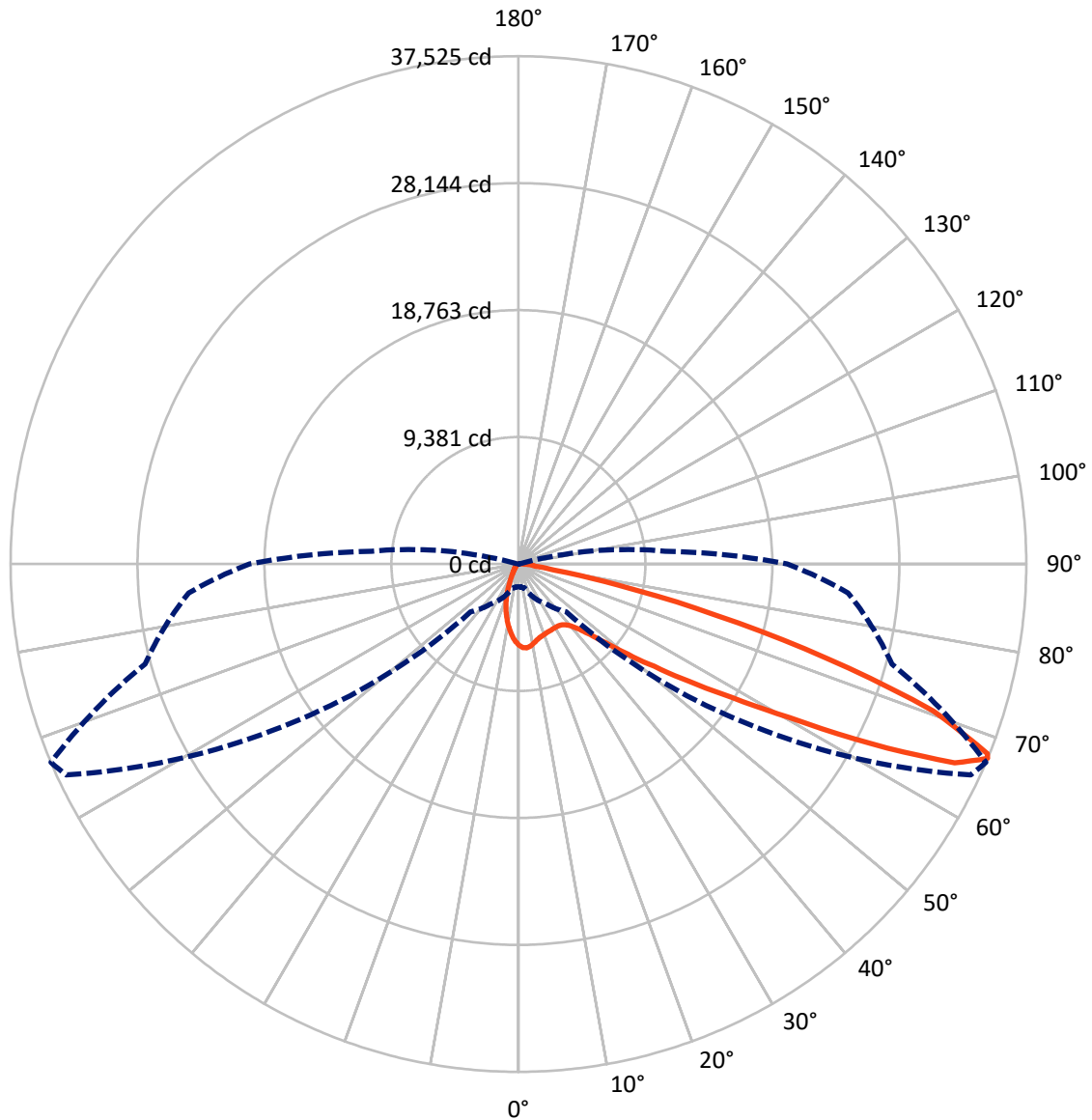


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Semi-Cutoff

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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	2829.4	0.0	2829.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24421.0	0.0	24421.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	27250.4	0.0	27250.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.0	1.8
10°-20°	1040.8	3.8
20°-30°	1513.2	5.6
30°-40°	2360.7	8.7
40°-50°	4181.8	15.3
50°-60°	6617.3	24.3
60°-70°	7579.2	27.8
70°-80°	3143.8	11.5
80°-90°	324.7	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°	27250.4	100.0
0°-180°	27250.4	100.0



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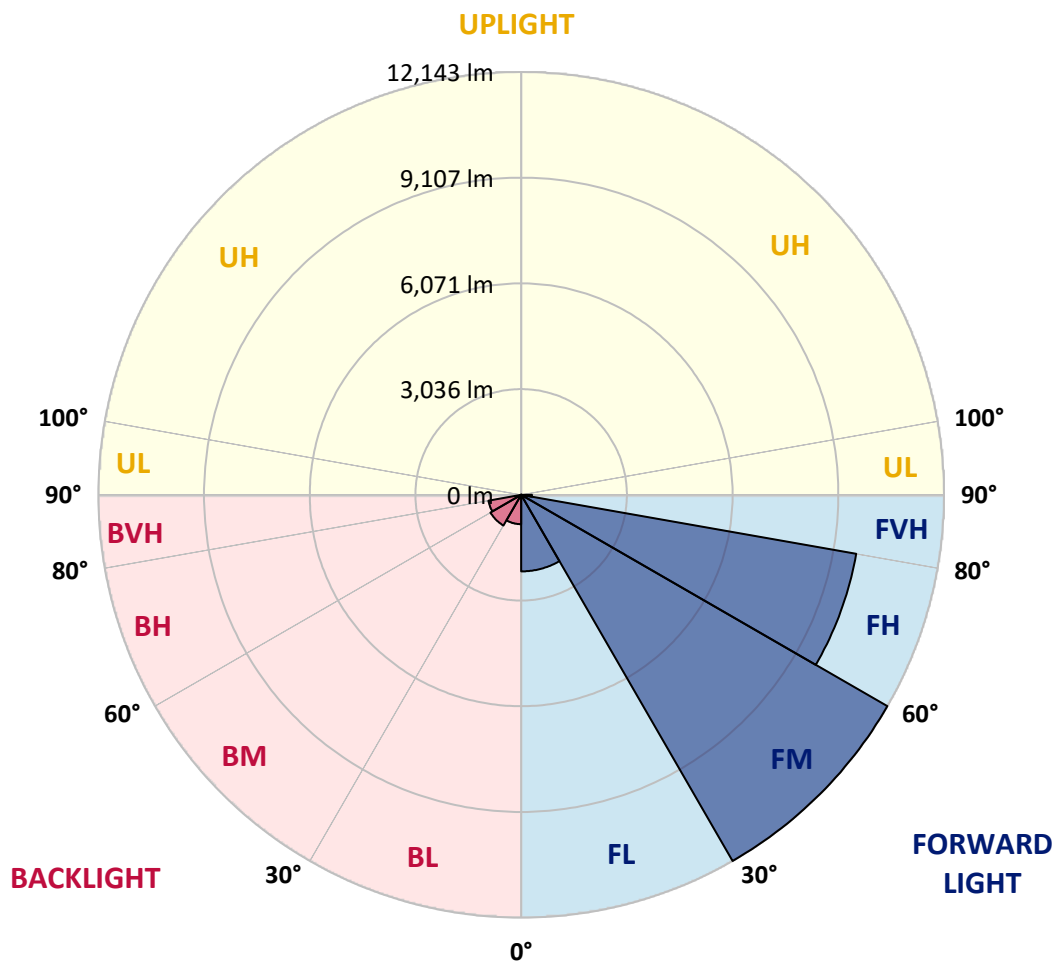
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2198.7	8.1			
FM (30°-60°)	12142.8	44.6			
FH (60°-80°)	9769.3	35.9			G4/12000
FVH (80°-90°)	310.1	1.1			G3/500
BL (0°-30°)	844.3	3.1	B2/1000		
BM (30°-60°)	1016.9	3.7	B2/2500		
BH (60°-80°)	953.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7
2.5°	6213.1	6225.9	6224.3	6233.8	6256.0	6257.8	6235.4	6192.5	6183.0	6127.4	6030.3
5°	5730.0	5766.4	5788.8	5879.3	5981.1	6103.4	6195.6	6229.1	6224.3	6184.5	6038.3
7.5°	5178.5	5215.0	5240.4	5346.9	5482.0	5691.9	5931.8	6128.9	6146.4	6189.3	6031.9
10°	4811.2	4817.6	4852.6	4954.4	5095.8	5310.3	5596.5	5941.4	5993.9	6151.2	6016.1
12.5°	4509.2	4514.0	4560.2	4669.8	4820.8	5037.0	5337.5	5736.3	5817.4	6103.4	6012.9
15°	4294.7	4312.1	4353.6	4467.9	4628.4	4843.0	5151.3	5585.4	5682.2	6086.0	6041.5
17.5°	4223.2	4242.2	4255.0	4337.6	4483.9	4693.7	5010.0	5486.8	5596.5	6095.6	6097.1
20°	4297.8	4312.1	4283.6	4304.3	4394.9	4582.4	4890.8	5402.6	5532.9	6106.7	6168.7
22.5°	4576.0	4582.4	4504.5	4413.8	4398.0	4501.4	4796.9	5335.7	5475.6	6136.9	6252.9
25°	5052.9	5041.8	4914.6	4719.1	4534.7	4487.1	4741.3	5294.4	5447.0	6168.7	6340.4
27.5°	5628.3	5644.2	5469.3	5184.8	4833.5	4582.4	4733.3	5277.0	5434.3	6190.9	6416.6
30°	6327.6	6349.8	6149.5	5792.0	5288.1	4817.6	4806.6	5273.8	5426.4	6176.7	6423.0
32.5°	7041.2	7068.3	6910.9	6542.2	5895.3	5211.7	4971.9	5308.8	5442.3	6127.4	6386.4
35°	7788.3	7826.5	7721.6	7405.3	6718.6	5780.8	5262.7	5415.2	5516.9	6122.6	6349.8
37.5°	8819.9	8854.8	8657.7	8322.4	7715.3	6543.7	5730.0	5615.5	5693.4	6198.9	6359.4
40°	10360.1	10355.3	9846.7	9333.3	8810.3	7513.3	6386.4	5977.9	6017.7	6429.4	6477.0
42.5°	12038.5	12030.5	11278.8	10498.2	10026.2	8707.0	7249.5	6604.1	6577.2	6853.8	6782.2
45°	13332.3	13330.7	12717.2	11838.2	11490.1	10077.1	8365.3	7475.2	7433.9	7543.5	7344.9
47.5°	13883.8	13893.4	13585.1	12966.8	13113.0	11930.4	9771.9	8737.3	8675.1	8630.7	8328.8
50°	13454.7	13473.8	13499.2	13378.4	14303.4	14421.1	11658.6	10515.7	10485.6	10286.9	9814.9
52.5°	12052.8	12149.7	12448.6	12831.6	14716.6	16811.6	14616.6	12725.1	12562.9	12351.6	11831.9
55°	9690.9	9797.4	10364.8	11294.6	14101.5	18382.0	18761.9	15573.4	15303.2	14672.2	13922.1
57.5°	6413.4	6578.7	7402.1	8584.6	12315.0	18634.7	22897.6	19526.4	18585.4	16857.7	16012.2
60°	3533.3	3692.3	4585.6	5656.9	8894.6	17385.5	25679.1	24673.0	23010.4	19300.6	18550.5
62.5°	2176.0	2261.7	2921.4	3918.0	5334.1	13721.8	26254.6	31140.5	29215.7	22446.2	21616.5
65°	1732.6	1769.0	2091.8	3202.7	3824.2	8161.7	24396.5	36071.0	35428.9	26254.6	24361.5
67°	1681.6	1695.9	1848.5	2749.7	3604.9	5003.6	20438.7	36873.7	37525.3	28559.3	24447.3
67.5°	1692.8	1708.7	1853.2	2624.2	3598.6	4598.2	19075.0	36557.4	37380.7	28742.1	24067.4
70°	1632.4	1681.6	2122.0	2622.5	3422.1	3821.1	11423.4	31674.6	32531.3	26705.9	20421.2
72.5°	578.5	581.7	917.1	2122.0	3721.0	3862.4	5736.3	23220.3	23854.5	20429.2	14723.1
75°	343.3	292.5	305.2	603.9	3555.7	3751.1	3309.3	14837.5	15074.4	11706.2	7456.1
77.5°	236.9	206.6	212.9	267.0	1354.2	3698.7	2629.0	7737.4	7484.7	4105.5	1587.9
80°	135.2	119.2	127.2	233.6	492.8	3450.7	2479.5	3137.6	2675.0	696.2	438.6
82.5°	71.6	60.4	73.1	192.3	343.3	2150.5	2484.3	1516.3	1201.7	235.2	298.9
85°	25.4	20.6	35.0	131.8	228.9	659.6	2303.0	1274.7	1001.4	114.4	227.3
87.5°	4.8	4.8	14.3	54.1	92.3	201.9	1362.1	756.6	507.1	68.4	155.8
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°	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7	6009.7
2.5°	5990.6	5922.3	5830.1	5717.2	5583.7	5466.1	5378.8	5288.1	5269.0	5237.3	5232.4
5°	5951.0	5833.3	5604.5	5342.1	5062.4	4809.7	4604.6	4421.8	4340.8	4270.8	4262.9
7.5°	5892.2	5715.7	5326.3	4903.4	4466.3	4069.1	3732.1	3493.6	3274.3	3169.4	3153.4
10°	5823.7	5571.0	5013.2	4426.6	3822.7	3261.5	2760.9	2341.2	2087.0	1936.0	1916.9
12.5°	5760.1	5429.5	4693.7	3932.3	3129.6	2379.4	1735.7	1335.1	1068.1	960.1	947.3
15°	5730.0	5315.1	4394.9	3426.8	2404.8	1514.8	948.9	734.3	647.0	621.4	619.9
17.5°	5726.9	5218.1	4102.3	2903.9	1684.8	880.5	618.3	564.3	546.8	540.4	540.4
20°	5725.1	5126.0	3809.9	2361.9	1069.6	586.5	514.9	502.3	489.6	481.7	481.7
22.5°	5742.6	5043.3	3504.7	1808.8	673.9	475.3	453.0	440.4	424.4	413.2	411.7
25°	5760.1	4979.7	3193.2	1287.4	488.0	413.2	391.0	373.5	351.3	336.9	335.4
27.5°	5763.3	4900.3	2859.5	861.5	408.5	360.8	332.1	305.2	279.7	265.4	263.9
30°	5715.7	4766.8	2489.0	581.7	360.8	313.1	275.0	246.4	222.6	211.4	211.4
32.5°	5621.9	4601.5	2082.2	438.6	321.1	268.7	227.3	200.3	184.4	179.6	178.0
35°	5537.7	4423.5	1664.1	371.9	287.7	227.3	186.0	168.5	159.0	157.4	155.8
37.5°	5488.4	4280.3	1271.6	336.9	255.8	190.7	157.4	144.7	139.9	136.7	138.3
40°	5526.6	4161.1	939.4	308.3	224.1	159.0	133.6	127.2	122.4	120.8	120.8
42.5°	5693.4	4140.5	697.7	282.9	193.9	131.8	116.1	111.2	108.0	106.5	108.0
45°	6132.0	4267.6	542.0	259.1	163.7	111.2	98.6	96.9	95.4	95.4	95.4
47.5°	6791.7	4529.9	451.4	232.0	136.7	95.4	85.9	84.2	82.6	84.2	84.2
50°	7909.1	5010.0	403.7	205.1	112.9	81.1	73.1	73.1	73.1	73.1	74.8
52.5°	9608.3	5954.1	371.9	178.0	92.3	68.4	62.0	62.0	63.6	63.6	65.1
55°	11501.2	7206.5	343.3	151.0	77.9	57.3	51.0	52.5	54.1	55.6	55.6
57.5°	13554.8	8594.2	319.5	124.0	66.7	46.1	42.9	44.5	46.1	49.2	49.2
60°	16032.8	10096.2	284.5	96.9	55.6	36.6	33.4	36.6	41.3	44.5	46.1
62.5°	18754.0	11548.9	240.1	76.3	46.1	28.6	27.0	33.4	39.8	42.9	44.5
65°	20613.6	12005.1	184.4	62.0	35.0	20.6	22.3	30.1	38.1	42.9	42.9
67°	19860.2	10884.5	151.0	52.5	28.6	15.9	20.6	30.1	38.1	41.3	42.9
67.5°	19337.2	10445.8	144.7	51.0	27.0	15.9	20.6	30.1	38.1	42.9	42.9
70°	15734.0	7847.1	120.8	38.1	22.3	14.3	17.5	28.6	36.6	41.3	41.3
72.5°	10932.3	4838.3	108.0	27.0	19.1	12.7	15.9	27.0	35.0	39.8	41.3
75°	5197.5	1751.5	92.3	20.6	17.5	11.2	14.3	27.0	35.0	39.8	39.8
77.5°	1060.2	406.9	74.8	17.5	14.3	11.2	12.7	25.4	33.4	38.1	38.1
80°	348.1	157.4	55.6	15.9	14.3	11.2	12.7	23.8	33.4	36.6	38.1
82.5°	251.2	79.4	36.6	15.9	14.3	11.2	11.2	23.8	31.8	36.6	36.6
85°	192.3	55.6	23.8	15.9	14.3	11.2	11.2	22.3	30.1	35.0	35.0
87.5°	127.2	22.3	19.1	15.9	14.3	11.2	11.2	22.3	28.6	33.4	35.0
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)