

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: P193575

Luminaire Tested: **GAN-AF-07-LED-U-SL2-8030-600-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193575  
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-SL2-8030-600-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA 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: 18749 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 - G3

Input Watts (W): 226  
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

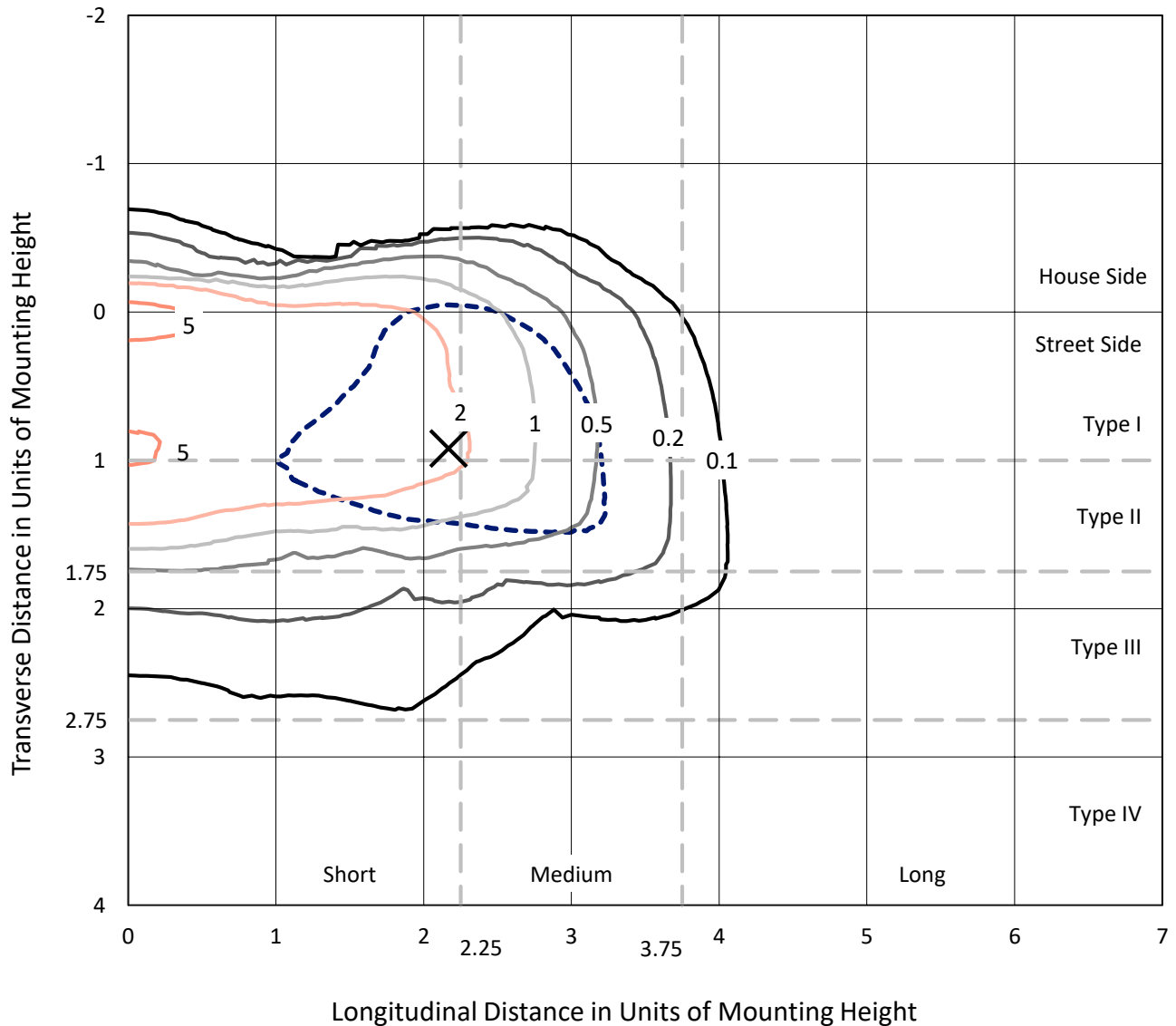


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

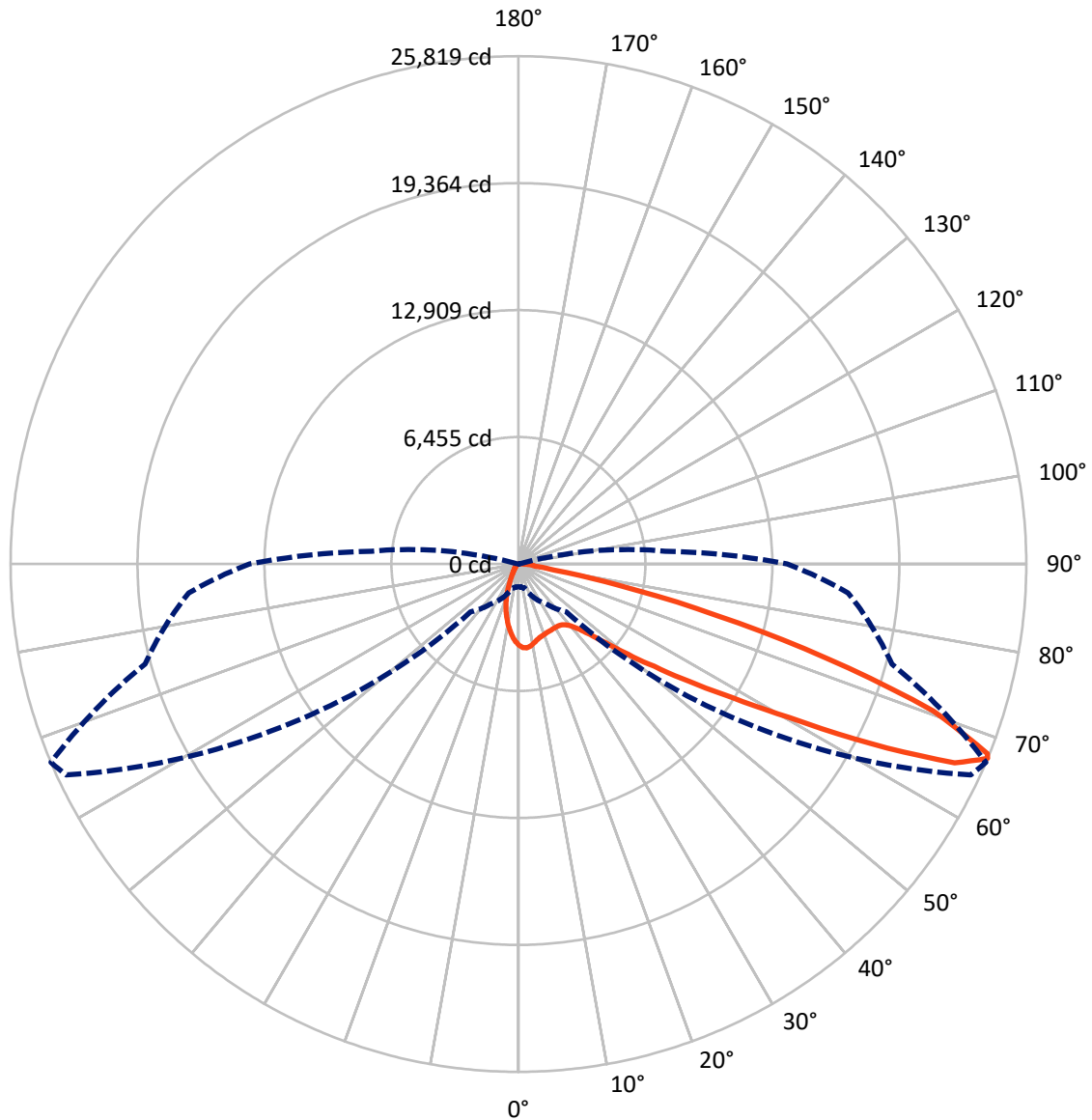


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	1946.7	0.0	1946.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	16802.3	0.0	16802.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	18749.0	0.0	18749.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.4	1.8
10°-20°	716.1	3.8
20°-30°	1041.1	5.6
30°-40°	1624.2	8.7
40°-50°	2877.2	15.3
50°-60°	4552.9	24.3
60°-70°	5214.7	27.8
70°-80°	2163.0	11.5
80°-90°	223.4	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°	18749.0	100.0
0°-180°	18749.0	100.0

**Coefficient of Utilization**



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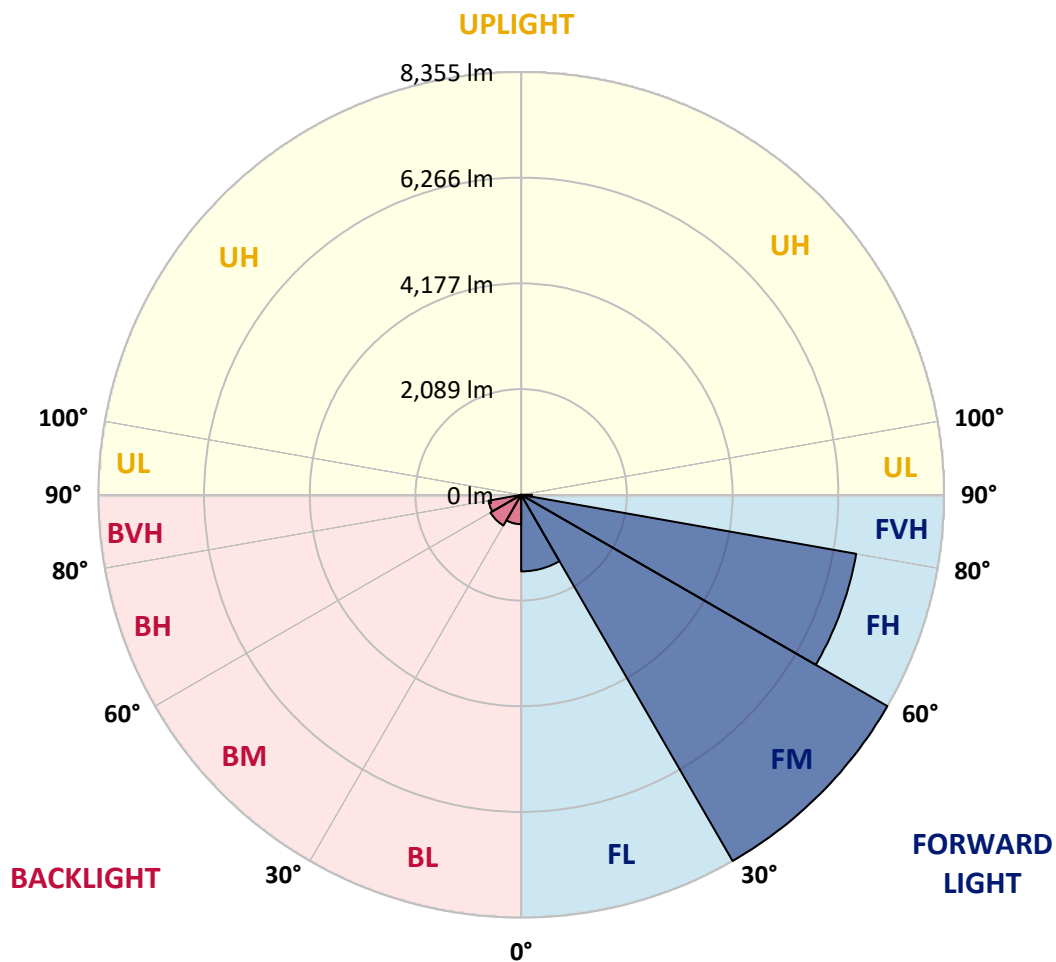
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1512.8	8.1			
FM (30°-60°)	8354.6	44.6			
FH (60°-80°)	6721.6	35.9			G3/7500
FVH (80°-90°)	213.4	1.1			G2/225
BL (0°-30°)	580.9	3.1	B2/1000		
BM (30°-60°)	699.6	3.7	B1/1000		
BH (60°-80°)	656.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	10.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8
2.5°	4274.8	4283.6	4282.5	4289.0	4304.4	4305.4	4290.1	4260.6	4254.0	4215.8	4149.1
5°	3942.4	3967.5	3982.8	4045.2	4115.2	4199.4	4262.8	4285.8	4282.5	4255.1	4154.5
7.5°	3562.9	3588.1	3605.6	3678.8	3771.8	3916.1	4081.3	4216.9	4228.9	4258.4	4150.2
10°	3310.3	3314.7	3338.7	3408.7	3506.0	3653.7	3850.5	4087.8	4123.9	4232.2	4139.2
12.5°	3102.5	3105.8	3137.5	3213.0	3316.8	3465.6	3672.3	3946.8	4002.5	4199.4	4137.0
15°	2954.9	2966.9	2995.3	3074.1	3184.5	3332.2	3544.3	3842.9	3909.6	4187.3	4156.7
17.5°	2905.7	2918.8	2927.5	2984.4	3085.0	3229.4	3447.0	3775.1	3850.5	4193.9	4195.0
20°	2957.1	2966.9	2947.2	2961.4	3023.8	3152.8	3365.0	3717.1	3806.8	4201.6	4244.2
22.5°	3148.4	3152.8	3099.2	3036.9	3026.0	3097.0	3300.4	3671.2	3767.4	4222.3	4302.2
25°	3476.5	3468.9	3381.4	3246.9	3120.0	3087.2	3262.2	3642.7	3747.7	4244.2	4362.3
27.5°	3872.4	3883.3	3763.0	3567.3	3325.6	3152.8	3256.7	3630.7	3739.0	4259.5	4414.8
30°	4353.6	4368.9	4231.1	3985.0	3638.4	3314.7	3307.0	3628.5	3733.5	4249.7	4419.2
32.5°	4844.6	4863.2	4754.9	4501.2	4056.1	3585.9	3420.7	3652.6	3744.4	4215.8	4394.0
35°	5358.6	5384.8	5312.6	5095.0	4622.6	3977.4	3620.9	3725.8	3795.8	4212.5	4368.9
37.5°	6068.3	6092.4	5956.8	5726.0	5308.3	4502.3	3942.4	3863.6	3917.2	4265.0	4375.4
40°	7128.0	7124.7	6774.8	6421.5	6061.7	5169.4	4394.0	4113.0	4140.3	4423.6	4456.4
42.5°	8282.8	8277.3	7760.1	7223.1	6898.3	5990.7	4987.8	4543.8	4525.3	4715.5	4666.3
45°	9173.0	9171.9	8749.8	8145.0	7905.5	6933.3	5755.5	5143.1	5114.7	5190.2	5053.5
47.5°	9552.5	9559.0	9346.9	8921.5	9022.1	8208.5	6723.4	6011.4	5968.8	5938.2	5730.4
50°	9257.2	9270.3	9287.8	9204.7	9841.2	9922.1	8021.4	7235.2	7214.4	7077.7	6752.9
52.5°	8292.7	8359.4	8565.0	8828.5	10125.5	11566.9	10056.6	8755.2	8643.7	8498.3	8140.7
55°	6667.6	6740.9	7131.3	7771.0	9702.3	12647.3	12908.7	10715.0	10529.0	10094.9	9578.7
57.5°	4412.6	4526.4	5092.8	5906.5	8473.1	12821.2	15754.2	13434.7	12787.3	11598.6	11016.8
60°	2431.0	2540.4	3155.0	3892.1	6119.7	11961.6	17668.0	16975.7	15831.8	13279.4	12763.2
62.5°	1497.1	1556.2	2010.0	2695.7	3670.1	9440.9	18063.8	21425.5	20101.2	15443.6	14872.8
65°	1192.0	1217.2	1439.2	2203.6	2631.2	5615.6	16785.4	24817.8	24376.0	18063.8	16761.4
67°	1157.0	1166.9	1271.8	1891.9	2480.3	3442.6	14062.4	25370.1	25818.5	19649.5	16820.4
67.5°	1164.7	1175.6	1275.1	1805.5	2475.9	3163.7	13124.1	25152.5	25718.9	19775.3	16559.1
70°	1123.1	1157.0	1459.9	1804.4	2354.5	2629.0	7859.6	21793.0	22382.4	18374.4	14050.4
72.5°	398.1	400.3	631.0	1459.9	2560.1	2657.4	3946.8	15976.2	16412.5	14055.9	10129.9
75°	236.2	201.2	210.0	415.6	2446.4	2580.9	2276.8	10208.6	10371.6	8054.3	5130.0
77.5°	162.9	142.2	146.5	183.7	931.7	2544.8	1808.8	5323.6	5149.7	2824.7	1092.5
80°	93.0	82.0	87.5	160.8	339.0	2374.2	1706.0	2158.7	1840.5	479.0	301.8
82.5°	49.2	41.6	50.3	132.3	236.2	1479.6	1709.3	1043.3	826.8	161.9	205.6
85°	17.5	14.2	24.1	90.8	157.5	453.8	1584.6	877.1	689.0	78.7	156.4
87.5°	3.3	3.3	9.8	37.2	63.4	138.9	937.2	520.5	348.9	47.0	107.2
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°	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8
2.5°	4121.7	4074.7	4011.3	3933.6	3841.8	3760.8	3700.7	3638.4	3625.2	3603.4	3600.1
5°	4094.4	4013.5	3856.0	3675.5	3483.1	3309.2	3168.1	3042.4	2986.6	2938.5	2933.0
7.5°	4053.9	3932.5	3664.6	3373.7	3073.0	2799.6	2567.7	2403.7	2252.8	2180.6	2169.7
10°	4006.9	3833.0	3449.2	3045.6	2630.1	2244.0	1899.6	1610.9	1435.9	1332.0	1318.9
12.5°	3963.2	3735.7	3229.4	2705.5	2153.3	1637.1	1194.2	918.6	734.9	660.5	651.8
15°	3942.4	3657.0	3023.8	2357.8	1654.6	1042.2	652.9	505.2	445.1	427.6	426.5
17.5°	3940.2	3590.2	2822.5	1998.0	1159.2	605.8	425.4	388.2	376.2	371.8	371.8
20°	3939.1	3526.8	2621.3	1625.1	736.0	403.5	354.3	345.6	336.8	331.4	331.4
22.5°	3951.1	3469.9	2411.4	1244.5	463.7	327.0	311.7	302.9	292.0	284.3	283.2
25°	3963.2	3426.2	2197.0	885.8	335.7	284.3	269.0	257.0	241.7	231.8	230.7
27.5°	3965.3	3371.5	1967.4	592.7	281.1	248.2	228.6	210.0	192.5	182.6	181.5
30°	3932.5	3279.7	1712.6	400.3	248.2	215.4	189.2	169.5	153.1	145.4	145.4
32.5°	3868.0	3165.9	1432.6	301.8	220.9	184.8	156.4	137.8	126.9	123.6	122.5
35°	3810.1	3043.4	1145.0	255.9	197.9	156.4	127.9	115.9	109.4	108.3	107.2
37.5°	3776.2	2945.0	874.9	231.8	176.1	131.2	108.3	99.5	96.2	94.0	95.1
40°	3802.4	2863.0	646.3	212.2	154.2	109.4	91.9	87.5	84.2	83.1	83.1
42.5°	3917.2	2848.8	480.1	194.7	133.4	90.8	79.8	76.6	74.4	73.3	74.4
45°	4219.1	2936.3	372.9	178.3	112.6	76.6	67.8	66.7	65.6	65.6	65.6
47.5°	4672.9	3116.7	310.6	159.7	94.0	65.6	59.1	58.0	56.9	58.0	58.0
50°	5441.7	3447.0	277.8	141.1	77.6	55.8	50.3	50.3	50.3	50.3	51.4
52.5°	6610.7	4096.6	255.9	122.5	63.4	47.0	42.6	42.6	43.7	43.7	44.8
55°	7913.2	4958.3	236.2	103.9	53.6	39.4	35.0	36.1	37.2	38.3	38.3
57.5°	9326.1	5913.0	219.8	85.3	45.9	31.7	29.5	30.6	31.7	33.9	33.9
60°	11031.0	6946.5	195.8	66.7	38.3	25.2	23.0	25.2	28.4	30.6	31.7
62.5°	12903.2	7946.0	165.1	52.5	31.7	19.7	18.6	23.0	27.3	29.5	30.6
65°	14182.7	8259.9	126.9	42.6	24.1	14.2	15.3	20.8	26.2	29.5	29.5
67°	13664.4	7488.9	103.9	36.1	19.7	10.9	14.2	20.8	26.2	28.4	29.5
67.5°	13304.6	7187.0	99.5	35.0	18.6	10.9	14.2	20.8	26.2	29.5	29.5
70°	10825.4	5399.0	83.1	26.2	15.3	9.8	12.0	19.7	25.2	28.4	28.4
72.5°	7521.7	3328.9	74.4	18.6	13.1	8.7	10.9	18.6	24.1	27.3	28.4
75°	3576.0	1205.1	63.4	14.2	12.0	7.7	9.8	18.6	24.1	27.3	27.3
77.5°	729.4	280.0	51.4	12.0	9.8	7.7	8.7	17.5	23.0	26.2	26.2
80°	239.5	108.3	38.3	10.9	9.8	7.7	8.7	16.4	23.0	25.2	26.2
82.5°	172.8	54.7	25.2	10.9	9.8	7.7	7.7	16.4	21.9	25.2	25.2
85°	132.3	38.3	16.4	10.9	9.8	7.7	7.7	15.3	20.8	24.1	24.1
87.5°	87.5	15.3	13.1	10.9	9.8	7.7	7.7	15.3	19.7	23.0	24.1
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)