

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: P321384

Luminaire Tested: **GAN-SA0D-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61989 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

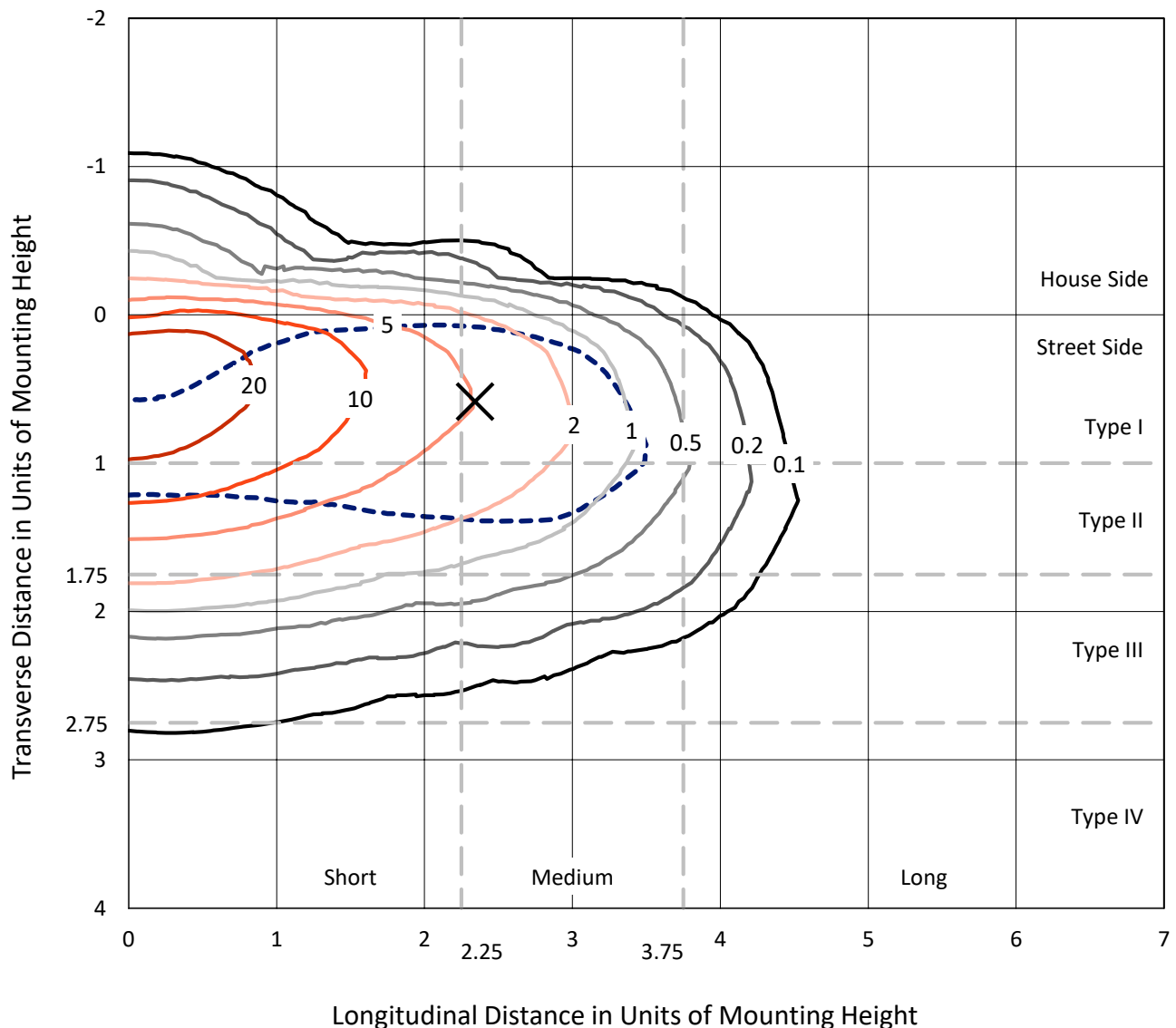
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

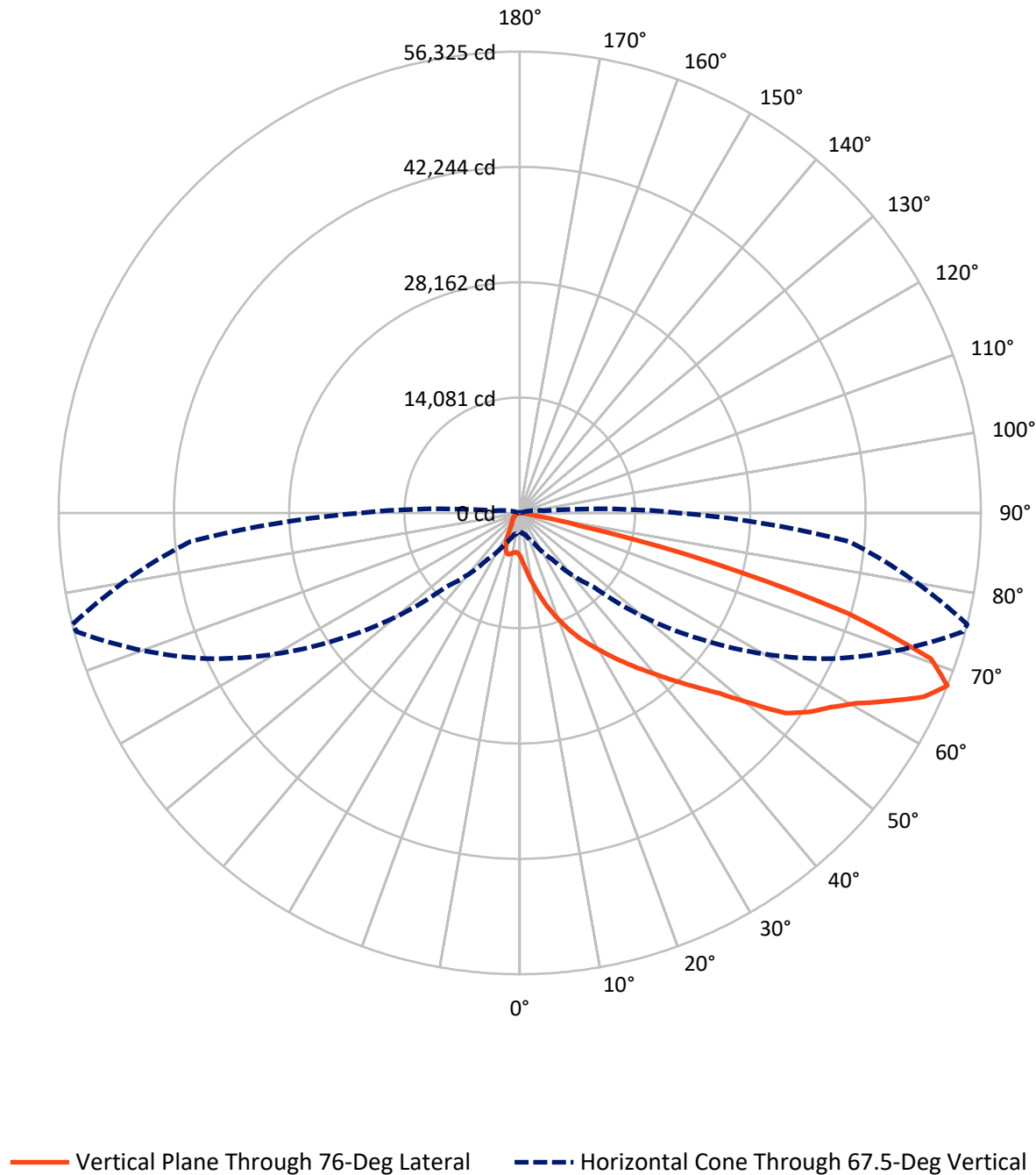
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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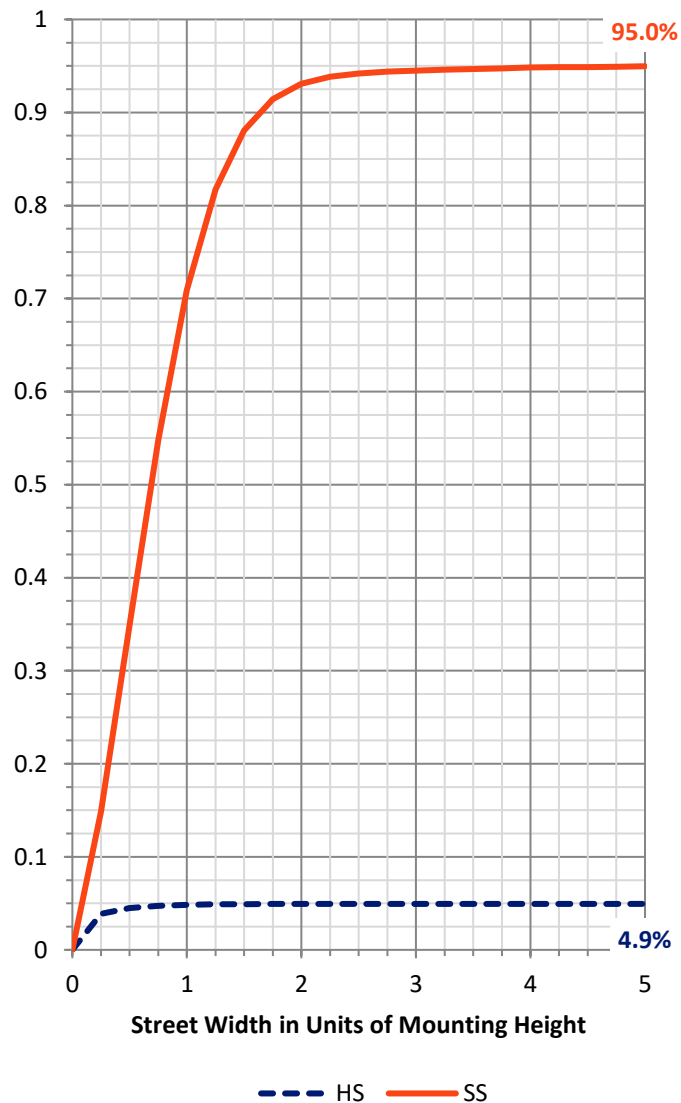
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3078.2	0.0	3078.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	58910.8	0.0	58910.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	61989.0	0.0	61989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.9	1.1
10°-20°	2592.1	4.2
20°-30°	5274.0	8.5
30°-40°	9154.0	14.8
40°-50°	12933.4	20.9
50°-60°	14667.1	23.7
60°-70°	12165.0	19.6
70°-80°	4406.5	7.1
80°-90°	142.9	0.2
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°	61989.0	100.0
0°-180°	61989.0	100.0

Coefficient of Utilization



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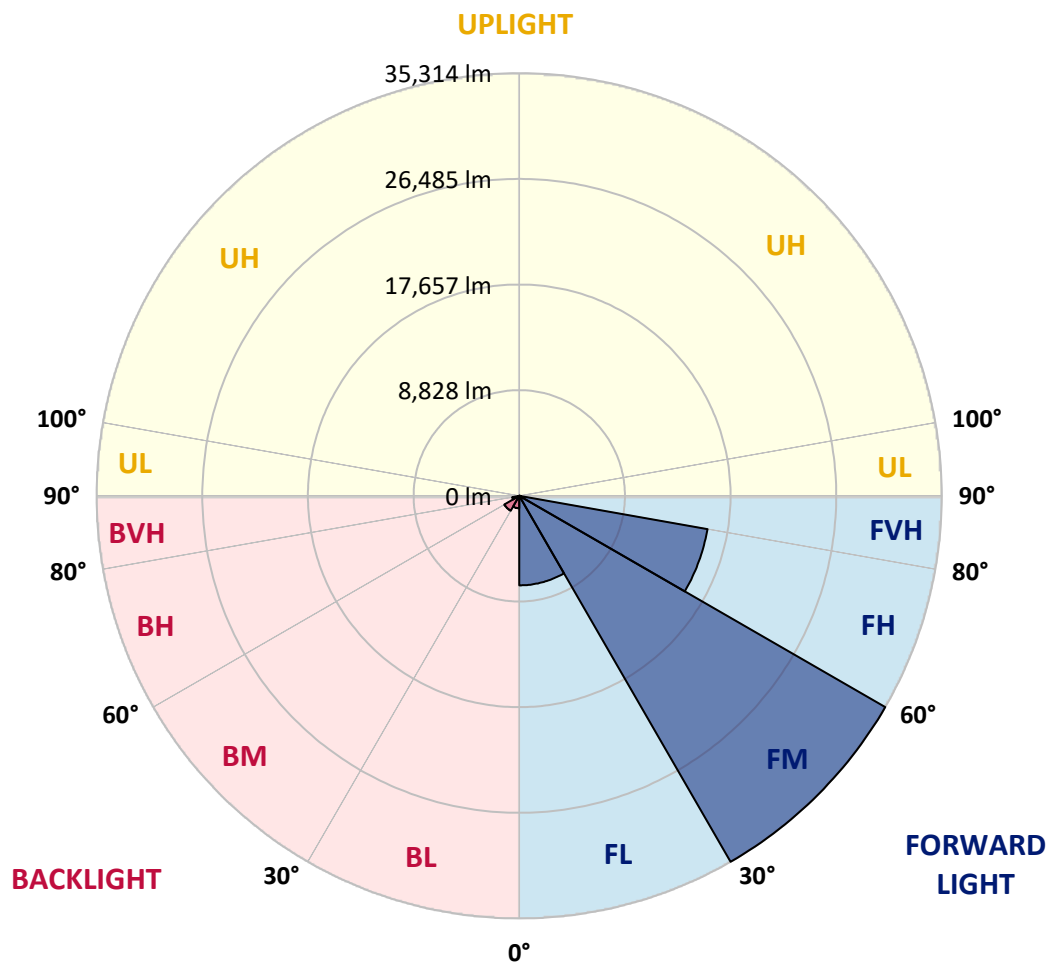
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7481.9	12.1			
FM	(30°-60°)	35313.9	57.0			
FH	(60°-80°)	15976.6	25.8			G5
FVH	(80°-90°)	138.4	0.2			G2/225
BL	(0°-30°)	1038.1	1.7	B3/2500		
BM	(30°-60°)	1440.7	2.3	B2/2500		
BH	(60°-80°)	594.9	1.0	B2/1000		G2/1000
BVH	(80°-90°)	4.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5
2.5°	7849.7	7673.1	7713.9	7599.8	7393.4	6969.6	6608.4	6266.2	5866.9	5853.3	5524.6
5°	10584.8	10435.4	10416.4	10185.6	9810.7	9090.9	8390.2	7591.6	6700.7	6635.5	5937.5
7.5°	13067.4	12947.9	12904.4	12630.1	11932.0	11231.3	10318.6	9145.3	7751.9	7632.4	6494.3
10°	14974.1	14917.1	14927.9	14732.4	14134.8	13483.0	12285.1	10788.5	8944.3	8759.6	7162.5
12.5°	16419.1	16432.7	16530.5	16411.0	16076.9	15593.4	14314.1	12540.5	10264.3	10011.7	7925.7
15°	17481.1	17549.0	17728.3	17877.7	17853.2	17435.0	16261.6	14319.5	11665.9	11386.1	8775.9
17.5°	18168.3	18244.4	18505.1	18836.5	19140.7	19042.9	18141.2	16036.1	13083.7	12760.5	9685.8
20°	18771.3	18860.9	19140.7	19578.0	20145.7	20267.9	19675.8	17701.1	14498.8	14105.0	10625.6
22.5°	20077.8	20075.0	20246.2	20501.5	21042.0	21357.1	20982.2	19246.6	15897.6	15487.5	11584.4
25°	22440.8	22351.2	22291.4	22090.4	22209.9	22405.5	22196.4	20691.6	17304.6	16889.0	12556.8
27.5°	25249.3	25303.6	24820.2	24279.6	23861.4	23660.4	23318.1	22030.7	18657.2	18200.9	13507.4
30°	28212.6	28228.9	27658.5	26968.6	26047.9	25284.6	24692.5	23310.0	20047.9	19550.8	14430.9
32.5°	30885.3	30779.4	30214.4	29274.6	28112.1	27253.8	26023.4	24738.7	21520.0	21039.3	15457.6
35°	33003.9	32879.0	32191.8	31336.2	30130.2	29266.5	27786.2	26164.7	23068.2	22598.4	16487.0
37.5°	34552.1	34405.4	33699.2	32819.2	31778.9	31276.4	29831.5	27715.6	24757.7	24252.5	17570.8
40°	35089.9	34962.3	34519.5	33875.8	33039.2	32925.1	32001.7	29500.1	26596.5	26058.7	18798.5
42.5°	34769.4	34644.5	34486.9	34269.6	33922.0	34030.6	34049.6	31534.5	28639.1	28109.4	20153.8
45°	33498.3	33386.9	33549.9	33867.6	34299.5	34837.3	35918.3	33721.0	30920.6	30355.7	21721.0
47.5°	31626.8	31545.3	31996.2	32789.3	34052.3	35535.4	37626.8	36018.8	33482.0	32957.7	23676.7
50°	28965.0	28951.4	29853.2	31300.9	33242.9	35872.2	39392.3	38631.8	37040.1	36488.7	26395.5
52.5°	24820.2	24847.3	26621.0	28937.8	31822.4	35644.0	40527.6	41988.9	41179.5	40606.4	28750.4
55°	20873.6	21036.6	22294.1	25635.0	29644.0	34796.6	40918.8	43556.1	43463.8	42920.6	30059.6
57.5°	17008.5	17304.6	18516.0	21636.8	26463.4	32843.7	40704.2	44235.2	45164.1	44748.5	31787.1
60°	12820.2	12956.0	14352.1	17269.3	22381.1	29280.1	39147.8	44604.6	47489.1	47201.2	34294.1
62.5°	8156.6	8496.1	9734.7	12548.6	17426.8	24331.3	36524.0	44599.2	50398.1	50555.7	37529.0
65°	4296.9	4693.5	5350.8	7776.3	11975.5	18803.9	32577.5	44180.9	53967.1	54187.2	40057.8
67.5°	2316.9	2431.0	2778.6	4036.2	6945.2	12738.7	26778.5	42116.6	56034.1	56324.8	40410.9
70°	1694.9	1757.3	1887.7	2232.7	3495.7	7398.8	19540.0	37436.7	53369.6	53260.9	35904.8
72.5°	1301.0	1398.8	1496.6	1635.1	2009.9	3949.3	12165.6	29315.4	42583.8	41866.7	26838.3
75°	1026.7	1043.0	1181.5	1306.5	1507.5	2249.0	5402.4	17073.7	25990.8	24293.2	13917.5
77.5°	820.3	831.1	912.6	1021.3	1211.4	1477.6	1673.1	6717.0	8297.8	7404.2	3020.4
80°	486.2	513.4	679.0	787.7	1005.0	931.6	611.1	1458.6	1295.6	1173.4	507.9
82.5°	271.6	293.3	383.0	622.0	700.8	445.4	304.2	393.8	304.2	296.1	144.0
85°	0.0	13.6	247.2	385.7	285.2	97.8	127.7	130.4	89.6	84.2	57.0
87.5°	0.0	0.0	76.1	73.3	10.9	16.3	29.9	43.5	35.3	35.3	29.9
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°	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5
2.5°	5361.7	5215.0	4938.0	4666.3	4438.2	4250.8	4082.4	4014.5	3960.1	3952.0	3908.5
5°	5600.7	5304.6	4775.0	4340.4	4049.8	3843.3	3666.8	3558.2	3474.0	3441.4	3411.5
7.5°	5961.9	5513.8	4753.3	4253.5	3905.8	3558.2	3232.2	2879.1	2659.1	2574.9	2526.0
10°	6402.0	5790.8	4834.7	4229.0	3620.6	2887.3	2346.8	1898.6	1716.6	1656.9	1640.6
12.5°	6915.3	6135.8	4976.0	4076.9	3012.2	2050.7	1618.8	1466.7	1426.0	1407.0	1407.0
15°	7504.7	6513.3	5076.5	3636.9	2227.2	1550.9	1401.5	1330.9	1287.5	1263.0	1265.7
17.5°	8107.7	6882.7	5027.6	2998.6	1643.3	1379.8	1268.4	1192.4	1132.6	1108.2	1102.8
20°	8716.1	7225.0	4756.0	2232.7	1390.7	1252.1	1127.2	1043.0	983.2	958.8	953.4
22.5°	9346.3	7515.6	4277.9	1637.8	1249.4	1110.9	988.7	904.5	847.4	825.7	814.8
25°	9960.1	7751.9	3609.8	1325.5	1116.3	977.8	861.0	782.3	730.6	708.9	706.2
27.5°	10533.2	7901.3	2835.7	1170.7	999.5	858.3	752.4	681.8	638.3	622.0	619.3
30°	11049.3	7914.9	2096.9	1056.6	896.3	755.1	657.3	594.8	556.8	540.5	535.1
32.5°	11570.8	7800.8	1526.5	953.4	801.3	665.5	570.4	521.5	494.3	480.8	480.8
35°	12062.4	7537.3	1189.7	863.7	708.9	578.5	502.5	467.2	450.9	437.3	437.3
37.5°	12543.2	7159.8	1010.4	785.0	622.0	505.2	442.7	421.0	407.4	393.8	393.8
40°	13032.1	6684.4	918.1	711.6	551.4	448.2	393.8	374.8	361.2	350.4	347.7
42.5°	13632.3	6135.8	858.3	643.7	488.9	396.6	347.7	325.9	315.1	304.2	298.8
45°	14327.7	5663.2	809.4	575.8	437.3	353.1	301.5	279.8	263.5	249.9	247.2
47.5°	15329.9	5320.9	744.2	502.5	388.4	306.9	260.8	236.3	211.9	198.3	195.6
50°	16609.2	5038.5	660.0	437.3	339.5	260.8	217.3	187.4	165.7	152.1	152.1
52.5°	17244.8	4669.1	584.0	380.3	285.2	220.0	176.5	141.2	130.4	116.8	116.8
55°	17500.1	4386.6	507.9	323.2	236.3	182.0	138.5	108.6	100.5	92.3	89.6
57.5°	18217.2	4305.1	442.7	274.3	195.6	144.0	105.9	81.5	76.1	65.2	65.2
60°	19371.6	4345.8	383.0	233.6	157.5	111.4	78.8	62.5	57.0	46.2	46.2
62.5°	20618.3	4294.2	323.2	201.0	122.2	81.5	54.3	46.2	46.2	27.2	24.4
65°	20857.3	3824.3	277.0	165.7	95.1	59.8	35.3	29.9	40.7	5.4	0.0
67.5°	19358.0	2966.0	239.0	127.7	70.6	46.2	27.2	13.6	35.3	0.0	0.0
70°	15479.3	1885.0	192.8	92.3	54.3	38.0	21.7	5.4	27.2	0.0	0.0
72.5°	10946.1	1094.6	152.1	65.2	46.2	29.9	16.3	0.0	16.3	0.0	0.0
75°	5535.5	584.0	95.1	48.9	35.3	21.7	10.9	0.0	2.7	0.0	0.0
77.5°	1197.8	271.6	59.8	35.3	24.4	13.6	5.4	0.0	0.0	0.0	0.0
80°	260.8	119.5	38.0	21.7	13.6	8.1	0.0	0.0	0.0	0.0	0.0
82.5°	95.1	62.5	19.0	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.6	32.6	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.2	10.9	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)