

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: P322978

Luminaire Tested: **GAN-SA4D-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22685 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

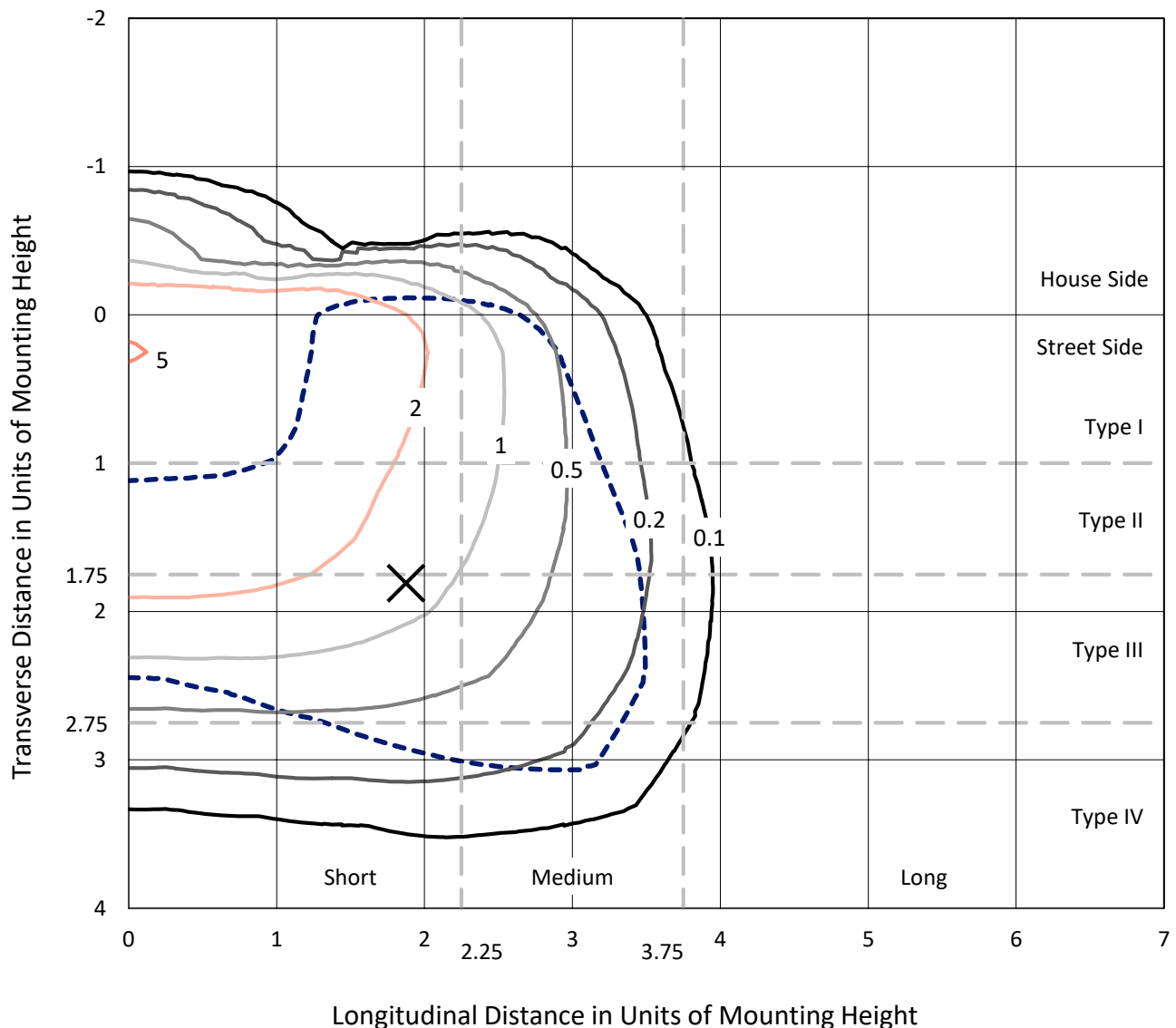
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

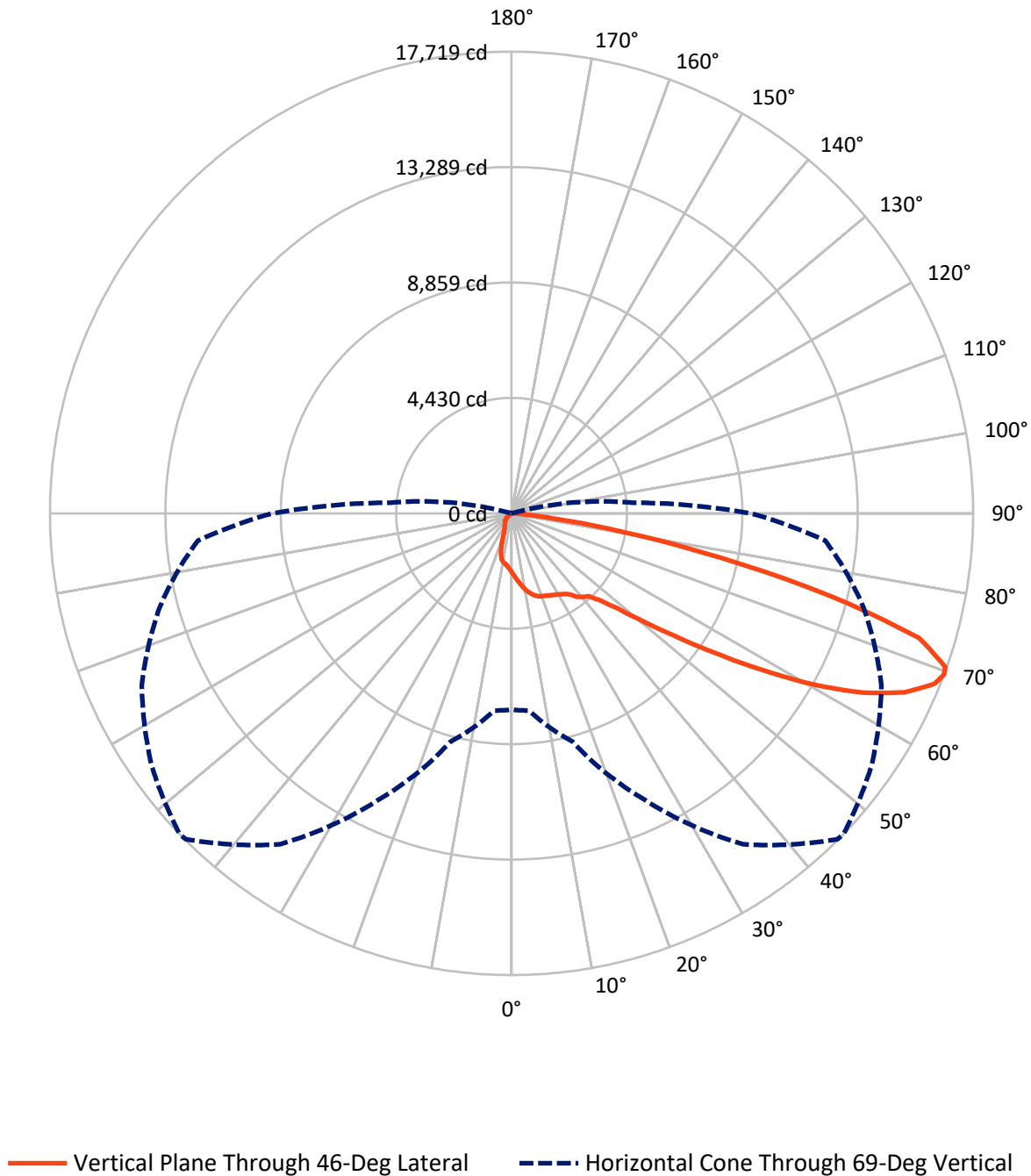
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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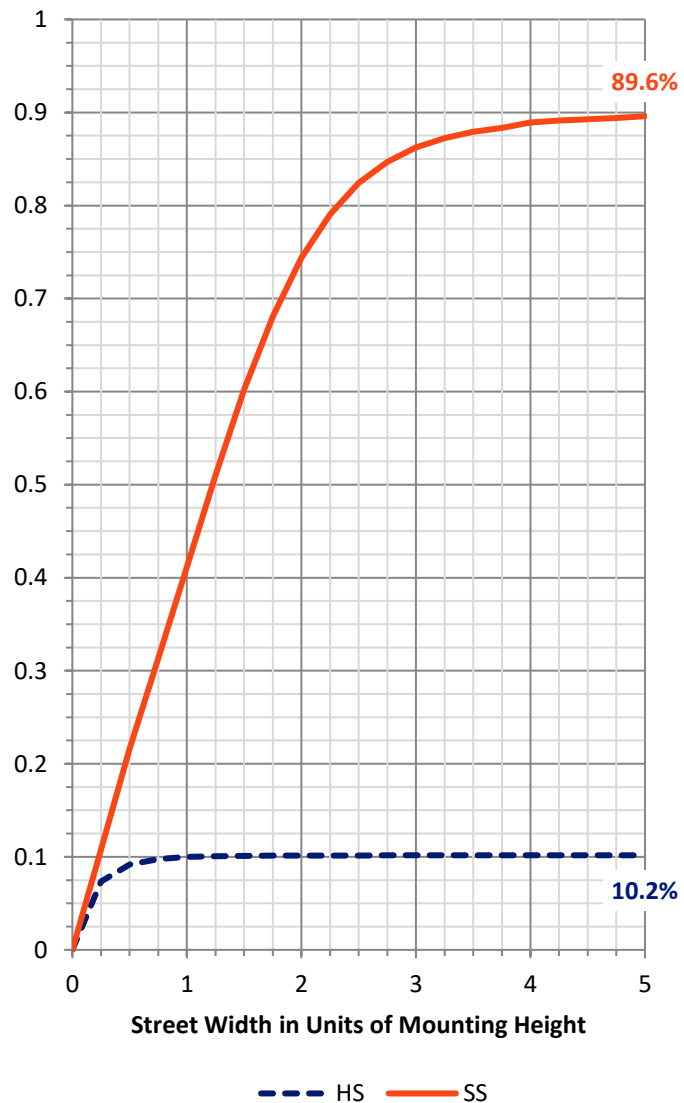
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.1	0.0	2328.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20356.9	0.0	20356.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	22685.0	0.0	22685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.0
10°-20°	686.3	3.0
20°-30°	1079.4	4.8
30°-40°	1547.9	6.8
40°-50°	2675.3	11.8
50°-60°	5285.3	23.3
60°-70°	7386.7	32.6
70°-80°	3568.6	15.7
80°-90°	229.4	1.0
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°	22685.0	100.0
0°-180°	22685.0	100.0

Coefficient of Utilization



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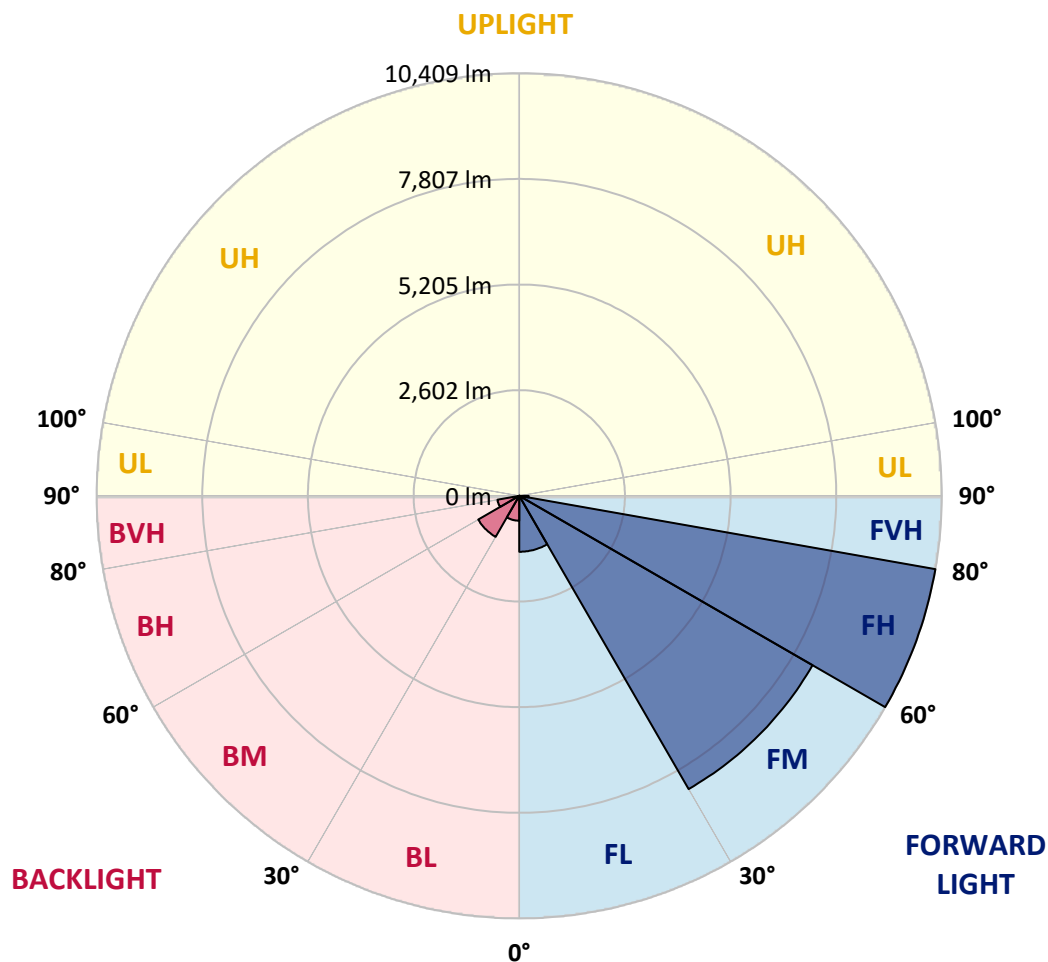
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.4	6.1			
FM	(30°-60°)	8341.8	36.8			
FH	(60°-80°)	10409.3	45.9			G4/12000
FVH	(80°-90°)	227.4	1.0			G3/500
BL	(0°-30°)	613.6	2.7	B2/1000		
BM	(30°-60°)	1166.7	5.1	B2/2500		
BH	(60°-80°)	545.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2525.0	2521.8	2506.9	2500.6	2464.4	2443.1	2434.6	2408.0	2369.7	2331.5	2288.9
5°	2812.2	2811.1	2783.5	2756.9	2688.8	2625.0	2613.3	2551.6	2465.5	2384.6	2303.8
7.5°	3105.8	3091.9	3064.3	3013.2	2914.3	2812.2	2802.6	2715.4	2593.1	2476.1	2360.2
10°	3354.7	3346.1	3310.0	3232.3	3116.4	3000.5	2988.8	2881.3	2743.1	2599.5	2451.6
12.5°	3548.2	3541.8	3494.0	3397.2	3273.8	3153.6	3137.7	3041.9	2894.1	2733.5	2559.1
15°	3666.3	3663.1	3604.6	3501.4	3380.2	3275.9	3262.1	3178.1	3040.9	2872.8	2676.1
17.5°	3693.9	3695.0	3634.4	3530.1	3430.2	3355.7	3345.1	3281.3	3166.4	2999.4	2793.1
20°	3632.3	3645.0	3590.8	3500.4	3438.7	3399.3	3390.8	3352.5	3255.7	3098.3	2886.7
22.5°	3545.0	3551.4	3514.2	3453.6	3428.0	3435.5	3431.2	3410.0	3328.1	3183.4	2979.2
25°	3491.9	3491.9	3469.5	3418.5	3435.5	3481.2	3482.3	3478.0	3413.2	3287.6	3091.9
27.5°	3489.7	3483.3	3457.8	3419.5	3466.3	3536.5	3540.8	3569.5	3529.1	3414.2	3232.3
30°	3574.8	3567.4	3513.1	3463.1	3522.7	3598.2	3608.9	3671.6	3651.4	3551.4	3388.7
32.5°	3773.7	3747.1	3626.9	3545.0	3589.7	3680.1	3693.9	3793.9	3825.8	3720.5	3539.7
35°	4046.0	3962.0	3788.6	3700.3	3704.6	3799.2	3812.0	3958.8	4053.4	3875.8	3656.7
37.5°	4421.5	4380.0	4098.1	3862.0	3881.1	4024.7	4062.0	4221.5	4194.9	3960.9	3789.7
40°	5244.7	5179.8	4879.9	4315.1	4050.3	4207.7	4219.4	4304.5	4306.6	4153.4	4066.2
42.5°	6365.8	6339.2	6023.3	5137.3	4383.2	4330.0	4351.3	4494.9	4655.5	4559.7	4555.5
45°	7607.0	7593.2	7258.1	6228.5	5056.4	4731.0	4757.6	4950.1	5257.5	5278.7	5413.8
47.5°	8605.7	8599.4	8406.8	7446.4	6087.1	5410.6	5419.1	5623.3	6163.7	6430.6	6646.6
50°	9516.2	9547.0	9394.9	8764.2	7491.1	6475.3	6455.1	6591.2	7459.2	7896.3	8164.3
52.5°	10781.9	10825.5	10399.0	9993.8	8964.2	7796.3	7780.4	7922.9	9016.3	9343.9	9391.7
55°	11899.8	11825.3	11488.1	11371.1	10760.6	9427.9	9423.7	9549.2	10522.4	10661.7	10750.0
57.5°	12393.3	12364.6	12527.3	12795.3	12642.2	11356.3	11346.7	11251.0	11870.0	11884.9	12156.1
60°	12704.9	12740.0	13238.9	14065.3	14447.1	13431.4	13369.7	12785.8	13157.0	13124.0	13414.4
62.5°	12470.9	12540.1	13437.8	14815.1	15797.9	15242.7	15155.5	14191.9	14256.7	14142.9	14413.1
65°	11228.6	11336.0	12807.0	14673.7	16468.0	16658.4	16570.1	15433.1	15130.0	14942.8	14792.8
67.5°	9117.3	9181.2	10717.0	13443.1	16165.9	17502.9	17484.8	16521.2	15789.4	14807.7	13644.1
69°	7534.7	7597.4	9075.9	12147.6	15501.2	17683.7	17718.8	16870.0	15663.9	13986.6	12089.1
70°	6381.7	6448.7	7826.1	11037.2	14730.0	17599.7	17662.4	16837.1	15304.4	13035.7	10724.5
72.5°	3347.2	3404.6	4818.2	7603.8	12008.3	16160.6	16351.0	15414.0	12973.0	9467.3	6341.3
75°	1051.9	1084.9	1881.5	3974.7	8221.8	12565.6	12609.2	12091.2	9212.0	5207.5	2641.0
77.5°	401.0	391.4	626.5	1464.6	4156.6	7912.3	8179.2	7555.9	4834.1	1841.1	609.5
80°	215.9	217.0	325.5	606.3	1778.4	4066.2	4291.7	3662.0	1717.7	574.4	140.4
82.5°	93.6	97.9	182.9	321.2	816.9	1499.7	1612.4	1342.3	656.3	386.1	52.1
85°	20.2	22.3	88.3	174.4	332.9	421.2	441.4	435.0	418.0	299.9	20.2
87.5°	0.0	0.0	39.4	62.8	84.0	95.7	84.0	109.6	230.8	202.1	10.6
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°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2275.1	2255.9	2223.0	2186.8	2161.3	2134.7	2113.4	2103.8	2093.2	2085.8	2095.3
5°	2270.8	2233.6	2169.8	2108.1	2063.4	2027.3	1997.5	1985.8	1974.1	1965.6	1964.5
7.5°	2308.1	2255.9	2158.1	2067.7	1998.5	1949.6	1909.2	1892.2	1878.3	1872.0	1866.7
10°	2379.3	2312.3	2181.5	2063.4	1974.1	1891.1	1803.9	1736.9	1693.3	1673.1	1665.6
12.5°	2471.8	2387.8	2226.2	2085.8	1956.0	1796.5	1611.4	1451.8	1348.7	1314.6	1294.4
15°	2580.3	2476.1	2284.7	2114.5	1890.0	1598.6	1284.9	1076.4	980.7	961.5	940.2
17.5°	2684.6	2569.7	2354.9	2119.8	1745.4	1277.4	941.3	799.8	762.6	775.4	778.6
20°	2776.0	2662.2	2424.0	2073.0	1482.7	958.3	728.6	693.5	707.3	731.8	736.0
22.5°	2868.6	2751.6	2487.8	1949.6	1146.6	727.5	656.3	664.8	678.6	703.1	707.3
25°	2981.3	2860.1	2547.4	1723.1	860.5	619.0	623.3	636.0	649.9	672.2	674.3
27.5°	3111.1	2997.3	2586.7	1428.4	638.2	569.0	582.9	602.0	615.8	637.1	641.4
30°	3283.4	3178.1	2599.5	1123.2	535.0	524.4	530.7	554.1	574.4	593.5	596.7
32.5°	3445.1	3356.8	2556.9	847.7	495.6	482.9	482.9	496.7	520.1	538.2	542.4
35°	3594.0	3536.5	2420.8	620.1	465.9	444.6	434.0	434.0	448.8	463.7	468.0
37.5°	3790.7	3788.6	2200.6	494.6	437.1	412.7	390.3	373.3	368.0	371.2	373.3
40°	4127.9	4131.1	1913.4	443.5	412.7	379.7	345.7	314.8	286.1	276.5	275.5
42.5°	4654.4	4606.5	1612.4	419.1	391.4	345.7	294.6	253.1	208.5	194.6	193.6
45°	5490.4	5206.4	1293.4	396.7	369.1	307.4	243.6	187.2	151.0	140.4	140.4
47.5°	6708.2	5994.6	1001.9	372.3	339.3	263.8	184.0	135.1	110.6	105.3	106.4
50°	7967.6	6766.7	767.9	341.4	303.1	218.0	136.1	97.9	84.0	84.0	85.1
52.5°	9084.4	7332.6	598.8	308.4	258.5	171.2	103.2	76.6	70.2	69.1	70.2
55°	10129.9	7697.4	458.4	270.2	205.3	127.6	78.7	62.8	58.5	56.4	55.3
57.5°	11138.2	7878.2	343.5	218.0	148.9	92.5	62.8	53.2	48.9	45.7	44.7
60°	11809.4	7731.4	236.1	160.6	103.2	67.0	52.1	45.7	40.4	37.2	36.2
62.5°	12188.0	7330.5	152.1	115.9	73.4	50.0	41.5	38.3	30.8	27.7	27.7
65°	12034.8	6668.9	106.4	83.0	53.2	37.2	30.8	30.8	22.3	18.1	17.0
67.5°	10664.9	5634.0	80.8	61.7	38.3	27.7	23.4	26.6	13.8	8.5	8.5
69°	9175.8	4669.3	69.1	51.1	31.9	22.3	20.2	24.5	9.6	6.4	5.3
70°	7975.0	4027.9	62.8	44.7	26.6	19.1	18.1	23.4	9.6	5.3	4.3
72.5°	4771.4	2246.4	47.9	31.9	17.0	14.9	14.9	26.6	9.6	5.3	4.3
75°	1928.3	791.3	35.1	22.3	12.8	12.8	18.1	34.0	8.5	4.3	3.2
77.5°	437.1	173.4	20.2	13.8	8.5	12.8	21.3	26.6	5.3	2.1	0.0
80°	106.4	42.5	12.8	8.5	5.3	9.6	16.0	14.9	1.1	0.0	0.0
82.5°	35.1	14.9	5.3	4.3	1.1	3.2	7.4	4.3	0.0	0.0	0.0
85°	14.9	8.5	2.1	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	9.6	3.2	0.0	0.0	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)