

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: P323048

Luminaire Tested: **GAN-SA4C-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323048
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-SA4C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 16432 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

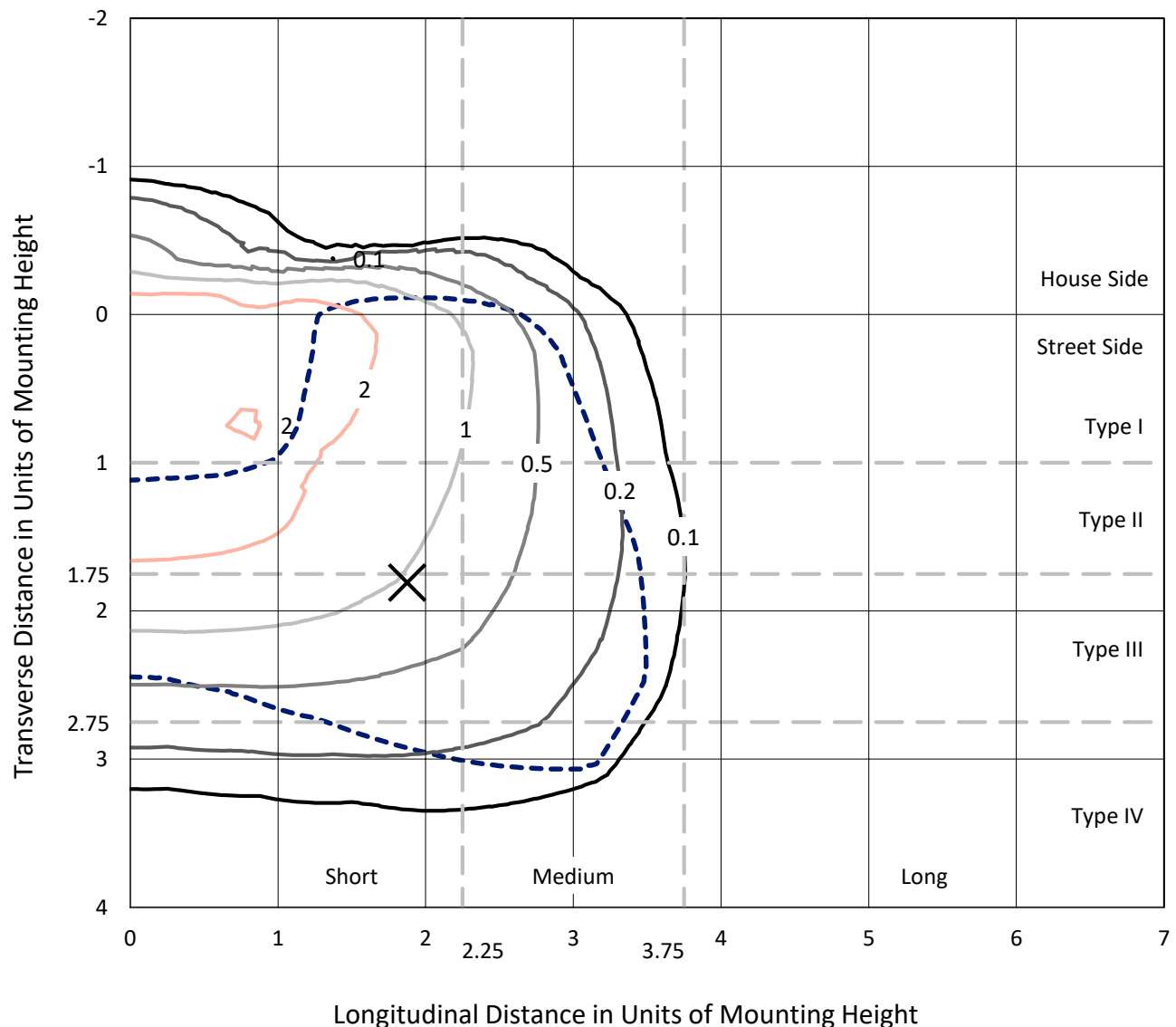
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

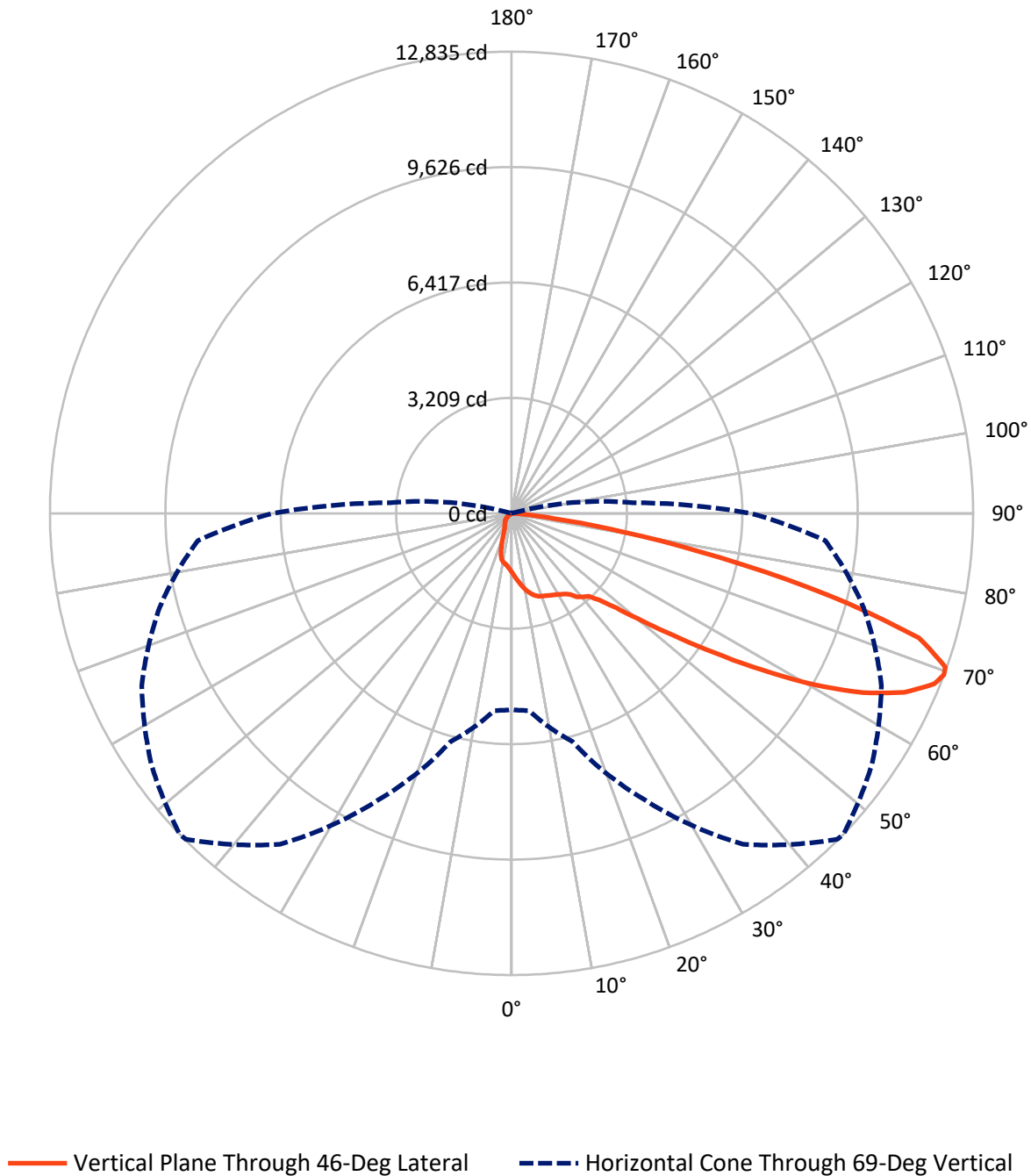
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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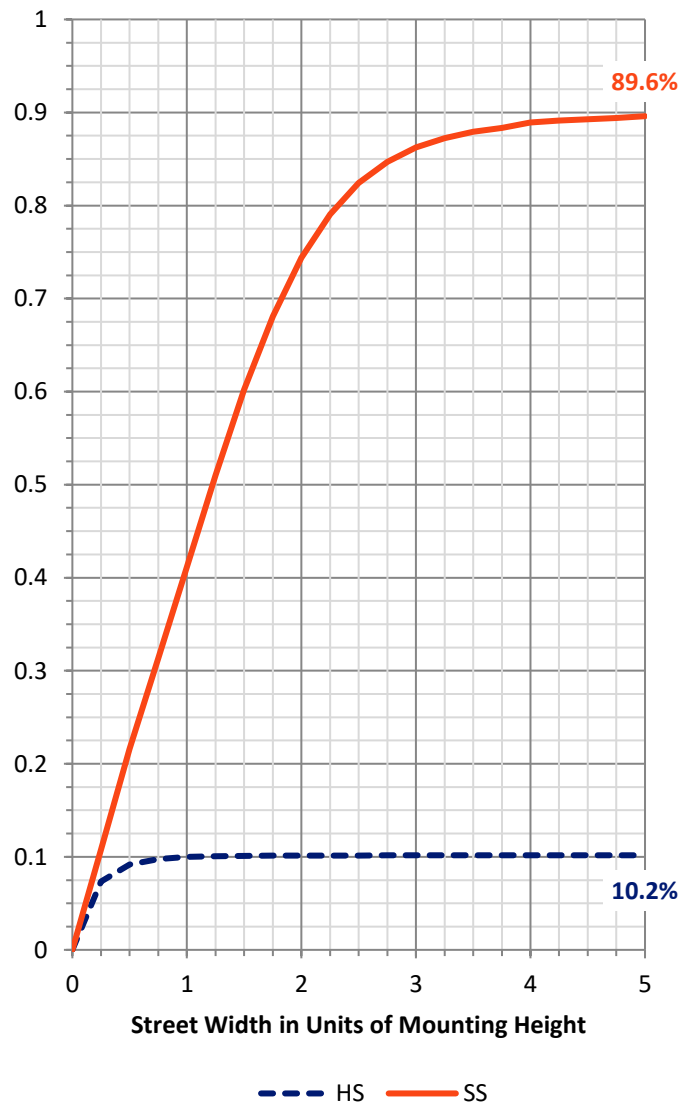
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.4	0.0	1686.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14745.6	0.0	14745.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	16432.0	0.0	16432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	1.0
10°-20°	497.2	3.0
20°-30°	781.9	4.8
30°-40°	1121.2	6.8
40°-50°	1937.9	11.8
50°-60°	3828.4	23.3
60°-70°	5350.6	32.6
70°-80°	2584.9	15.7
80°-90°	166.1	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°	16432.0	100.0
0°-180°	16432.0	100.0

Coefficient of Utilization



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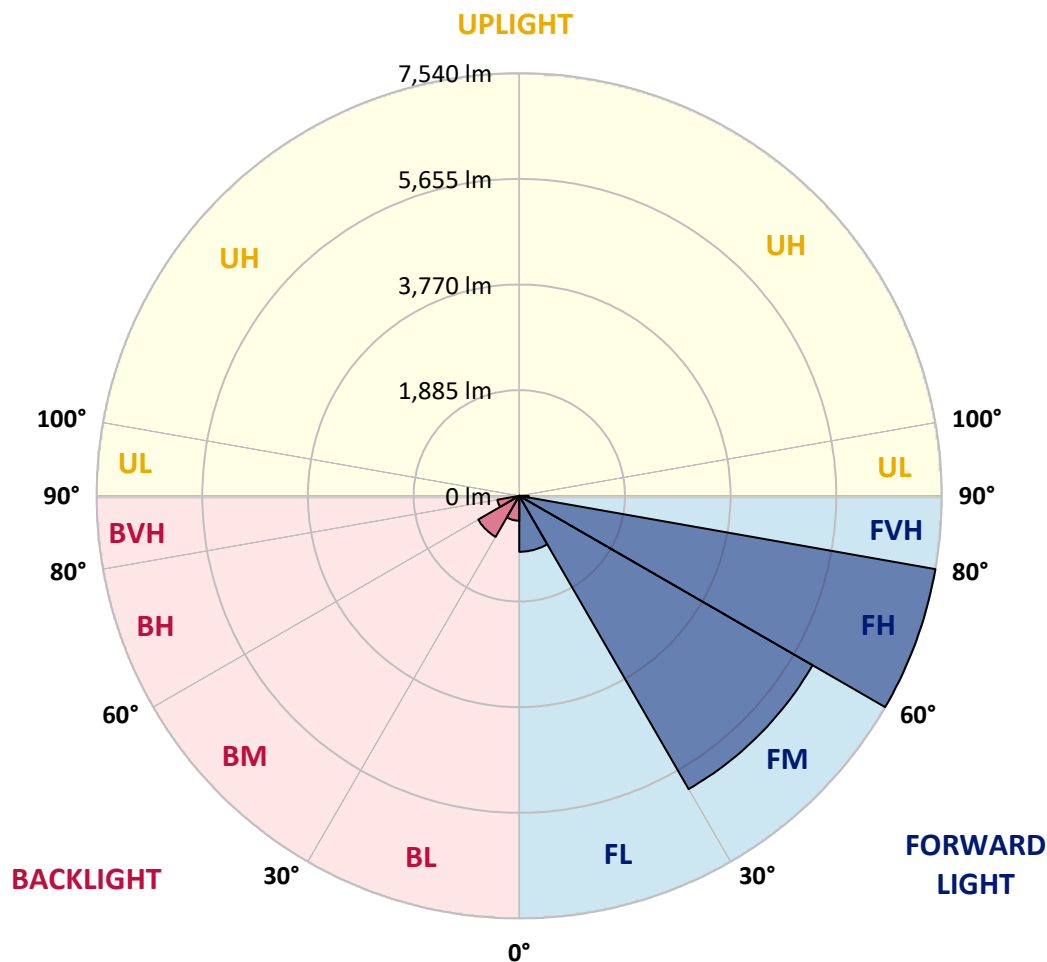
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.4	6.1			
FM	(30°-60°)	6042.4	36.8			
FH	(60°-80°)	7540.0	45.9			G4/12000
FVH	(80°-90°)	164.7	1.0			G2/225
BL	(0°-30°)	444.5	2.7	B1/500		
BM	(30°-60°)	845.1	5.1	B1/1000		
BH	(60°-80°)	395.4	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4
2.5°	1829.0	1826.7	1815.9	1811.3	1785.1	1769.7	1763.5	1744.3	1716.5	1688.8	1658.0
5°	2037.0	2036.3	2016.2	1997.0	1947.7	1901.4	1893.0	1848.3	1785.9	1727.3	1668.8
7.5°	2249.7	2239.7	2219.6	2182.6	2111.0	2037.0	2030.1	1966.9	1878.3	1793.6	1709.6
10°	2430.0	2423.8	2397.6	2341.4	2257.4	2173.4	2164.9	2087.1	1987.0	1882.9	1775.9
12.5°	2570.2	2565.6	2530.9	2460.8	2371.4	2284.3	2272.8	2203.5	2096.4	1980.0	1853.7
15°	2655.7	2653.4	2611.0	2536.3	2448.5	2372.9	2362.9	2302.1	2202.7	2081.0	1938.4
17.5°	2675.7	2676.5	2632.6	2557.1	2484.7	2430.7	2423.0	2376.8	2293.6	2172.6	2023.2
20°	2631.0	2640.3	2601.0	2535.5	2490.8	2462.3	2456.2	2428.4	2358.3	2244.3	2091.0
22.5°	2567.9	2572.5	2545.5	2501.6	2483.1	2488.5	2485.4	2470.0	2410.7	2305.9	2158.0
25°	2529.3	2529.3	2513.2	2476.2	2488.5	2521.6	2522.4	2519.3	2472.3	2381.4	2239.7
27.5°	2527.8	2523.2	2504.7	2477.0	2510.9	2561.7	2564.8	2585.6	2556.3	2473.1	2341.4
30°	2589.4	2584.0	2544.8	2508.5	2551.7	2606.4	2614.1	2659.6	2644.9	2572.5	2454.6
32.5°	2733.5	2714.3	2627.2	2567.9	2600.2	2665.7	2675.7	2748.2	2771.3	2695.0	2564.0
35°	2930.7	2869.9	2744.3	2680.4	2683.4	2752.0	2761.2	2867.6	2936.1	2807.5	2648.8
37.5°	3202.7	3172.7	2968.5	2797.5	2811.3	2915.3	2942.3	3057.9	3038.6	2869.1	2745.1
40°	3799.0	3752.0	3534.8	3125.7	2933.8	3047.9	3056.3	3118.0	3119.5	3008.6	2945.4
42.5°	4611.1	4591.8	4363.0	3721.2	3175.0	3136.5	3151.9	3255.9	3372.2	3302.9	3299.8
45°	5510.2	5500.2	5257.5	4511.7	3662.7	3426.9	3446.2	3585.6	3808.3	3823.7	3921.5
47.5°	6233.6	6229.0	6089.5	5393.8	4409.2	3919.2	3925.4	4073.3	4464.7	4658.1	4814.5
50°	6893.1	6915.4	6805.3	6348.4	5426.2	4690.4	4675.8	4774.4	5403.1	5719.7	5913.9
52.5°	7809.9	7841.5	7532.6	7239.0	6493.2	5647.3	5635.8	5739.0	6531.0	6768.3	6803.0
55°	8619.7	8565.7	8321.5	8236.7	7794.5	6829.2	6826.1	6917.0	7621.9	7722.9	7786.8
57.5°	8977.1	8956.3	9074.2	9268.4	9157.4	8226.0	8219.0	8149.7	8598.1	8608.9	8805.3
60°	9202.9	9228.3	9589.6	10188.3	10464.9	9729.1	9684.4	9261.4	9530.3	9506.4	9716.8
62.5°	9033.4	9083.5	9733.7	10731.4	11443.3	11041.1	10978.0	10279.9	10326.9	10244.5	10440.2
65°	8133.5	8211.3	9276.8	10629.0	11928.7	12066.6	12002.6	11179.0	10959.5	10823.9	10715.2
67.5°	6604.2	6650.4	7762.9	9737.6	11709.9	12678.3	12665.2	11967.2	11437.1	10726.0	9883.2
69°	5457.8	5503.2	6574.1	8799.2	11228.4	12809.3	12834.7	12219.9	11346.2	10131.3	8756.8
70°	4622.6	4671.2	5668.9	7994.8	10669.8	12748.4	12793.9	12196.0	11085.8	9442.5	7768.3
72.5°	2424.6	2466.2	3490.1	5507.9	8698.2	11706.0	11843.9	11165.2	9397.0	6857.7	4593.3
75°	762.0	785.8	1362.9	2879.1	5955.5	9101.9	9133.5	8758.3	6672.8	3772.1	1913.0
77.5°	290.5	283.5	453.8	1060.9	3010.9	5731.3	5924.7	5473.2	3501.6	1333.6	441.5
80°	156.4	157.2	235.8	439.1	1288.2	2945.4	3108.7	2652.6	1244.3	416.0	101.7
82.5°	67.8	70.9	132.5	232.7	591.7	1086.3	1168.0	972.3	475.4	279.7	37.8
85°	14.6	16.2	63.9	126.4	241.1	305.1	319.7	315.1	302.8	217.3	14.6
87.5°	0.0	0.0	28.5	45.5	60.9	69.3	60.9	79.4	167.2	146.4	7.7
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°	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4
2.5°	1648.0	1634.1	1610.2	1584.0	1565.5	1546.3	1530.9	1523.9	1516.2	1510.8	1517.8
5°	1644.9	1617.9	1571.7	1527.0	1494.6	1468.5	1446.9	1438.4	1429.9	1423.8	1423.0
7.5°	1671.8	1634.1	1563.2	1497.7	1447.7	1412.2	1382.9	1370.6	1360.6	1356.0	1352.1
10°	1723.5	1674.9	1580.2	1494.6	1429.9	1369.8	1306.7	1258.1	1226.5	1211.9	1206.5
12.5°	1790.5	1729.6	1612.5	1510.8	1416.8	1301.3	1167.2	1051.6	976.9	952.3	937.6
15°	1869.1	1793.6	1654.9	1531.6	1369.1	1158.0	930.7	779.7	710.3	696.5	681.1
17.5°	1944.6	1861.4	1705.7	1535.5	1264.3	925.3	681.8	579.4	552.4	561.6	564.0
20°	2010.8	1928.4	1755.8	1501.6	1074.0	694.2	527.7	502.3	512.3	530.1	533.1
22.5°	2077.9	1993.1	1802.1	1412.2	830.5	527.0	475.4	481.5	491.5	509.3	512.3
25°	2159.5	2071.7	1845.2	1248.1	623.3	448.4	451.5	460.7	470.7	486.9	488.5
27.5°	2253.5	2171.1	1873.7	1034.7	462.3	412.2	422.2	436.1	446.1	461.5	464.6
30°	2378.3	2302.1	1882.9	813.6	387.5	379.8	384.4	401.4	416.0	429.9	432.2
32.5°	2495.4	2431.5	1852.1	614.0	359.0	349.8	349.8	359.8	376.7	389.8	392.9
35°	2603.3	2561.7	1753.5	449.2	337.5	322.0	314.3	314.3	325.1	335.9	339.0
37.5°	2745.8	2744.3	1594.0	358.3	316.6	298.9	282.8	270.4	266.6	268.9	270.4
40°	2990.1	2992.4	1386.0	321.3	298.9	275.0	250.4	228.0	207.2	200.3	199.5
42.5°	3371.4	3336.8	1168.0	303.6	283.5	250.4	213.4	183.4	151.0	141.0	140.2
45°	3977.0	3771.3	936.9	287.4	267.3	222.7	176.4	135.6	109.4	101.7	101.7
47.5°	4859.1	4342.2	725.8	269.7	245.8	191.1	133.3	97.8	80.1	76.3	77.0
50°	5771.3	4901.5	556.3	247.3	219.6	157.9	98.6	70.9	60.9	60.9	61.6
52.5°	6580.3	5311.4	433.8	223.4	187.2	124.0	74.7	55.5	50.8	50.1	50.8
55°	7337.6	5575.7	332.1	195.7	148.7	92.5	57.0	45.5	42.4	40.8	40.1
57.5°	8068.0	5706.6	248.9	157.9	107.9	67.0	45.5	38.5	35.4	33.1	32.4
60°	8554.2	5600.3	171.0	116.3	74.7	48.5	37.8	33.1	29.3	27.0	26.2
62.5°	8828.4	5309.9	110.2	84.0	53.2	36.2	30.0	27.7	22.3	20.0	20.0
65°	8717.5	4830.6	77.0	60.1	38.5	27.0	22.3	22.3	16.2	13.1	12.3
67.5°	7725.2	4081.0	58.6	44.7	27.7	20.0	16.9	19.3	10.0	6.2	6.2
69°	6646.6	3382.2	50.1	37.0	23.1	16.2	14.6	17.7	6.9	4.6	3.9
70°	5776.7	2917.6	45.5	32.4	19.3	13.9	13.1	16.9	6.9	3.9	3.1
72.5°	3456.2	1627.2	34.7	23.1	12.3	10.8	10.8	19.3	6.9	3.9	3.1
75°	1396.8	573.2	25.4	16.2	9.2	9.2	13.1	24.7	6.2	3.1	2.3
77.5°	316.6	125.6	14.6	10.0	6.2	9.2	15.4	19.3	3.9	1.5	0.0
80°	77.0	30.8	9.2	6.2	3.9	6.9	11.6	10.8	0.8	0.0	0.0
82.5°	25.4	10.8	3.9	3.1	0.8	2.3	5.4	3.1	0.0	0.0	0.0
85°	10.8	6.2	1.5	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	6.9	2.3	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)