

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: P322719

Luminaire Tested: **GAN-SA5B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16119 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

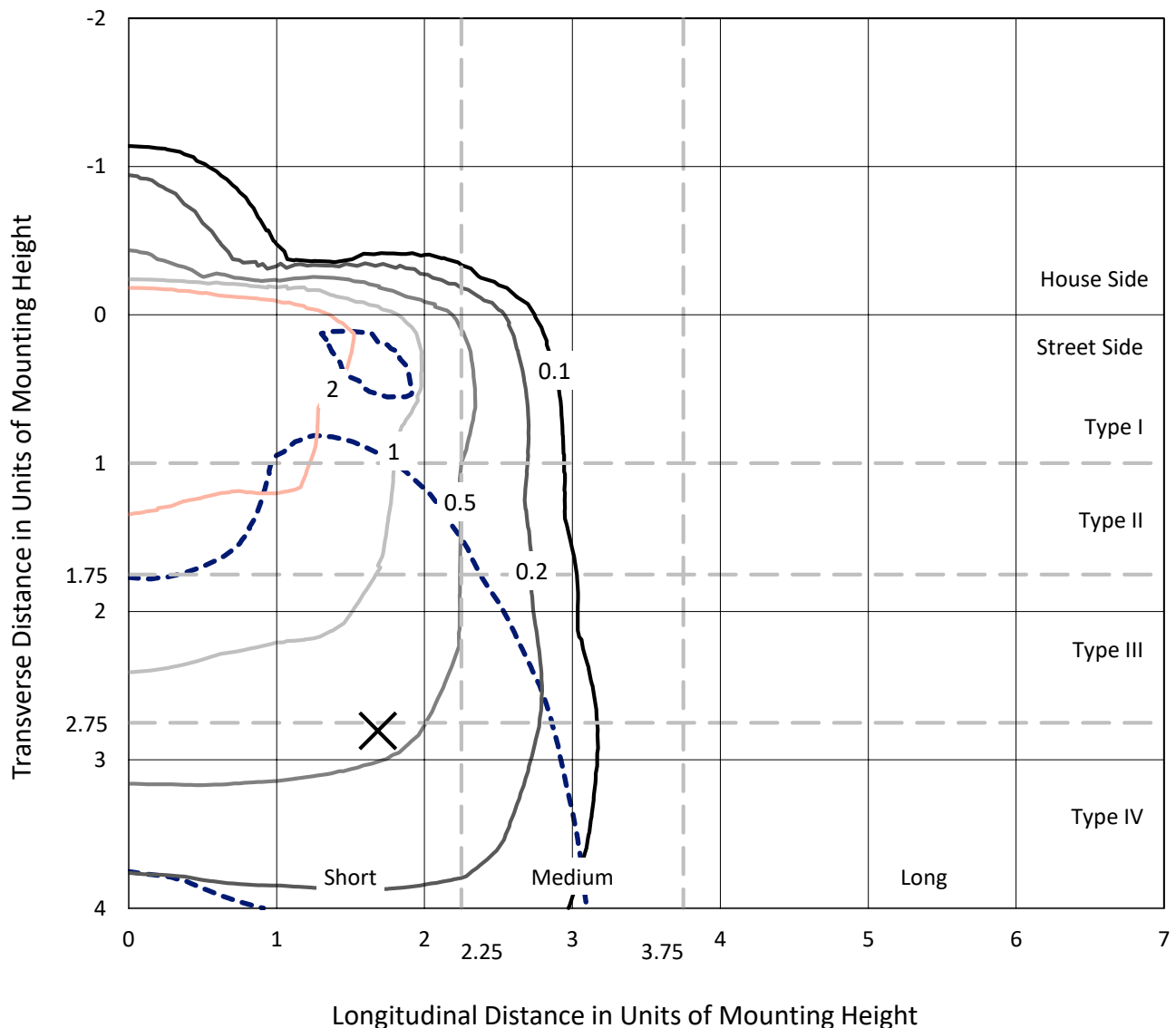
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

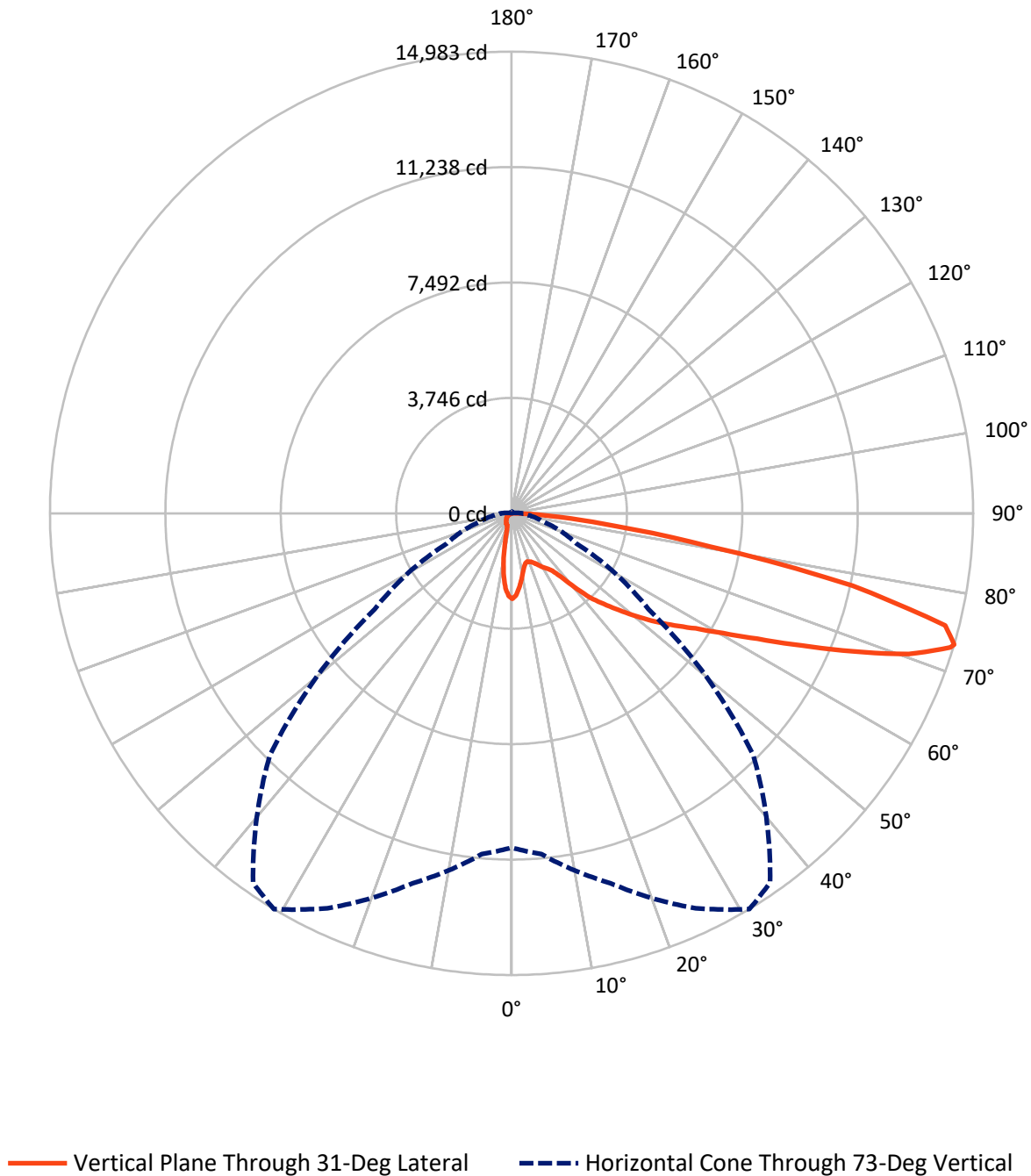
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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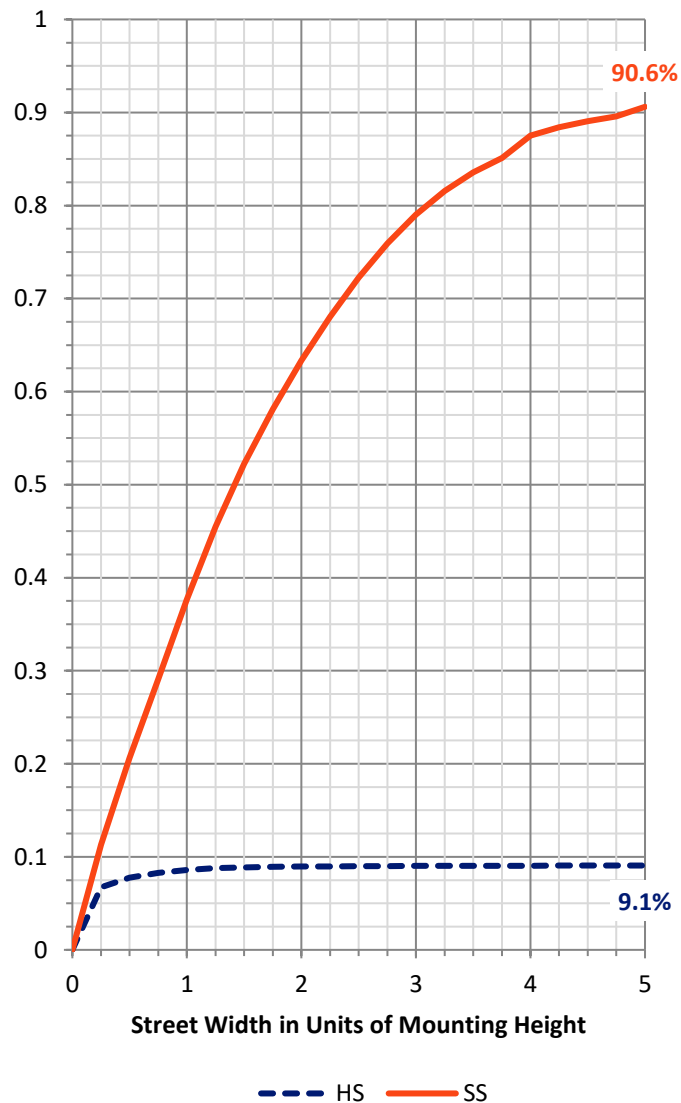
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.3	0.0	1469.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	14649.7	0.0	14649.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	16119.0	0.0	16119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	1.4
10°-20°	499.3	3.1
20°-30°	748.1	4.6
30°-40°	1190.2	7.4
40°-50°	2125.3	13.2
50°-60°	3297.9	20.5
60°-70°	4384.1	27.2
70°-80°	3297.7	20.5
80°-90°	346.5	2.1
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°	16119.0	100.0
0°-180°	16119.0	100.0

Coefficient of Utilization



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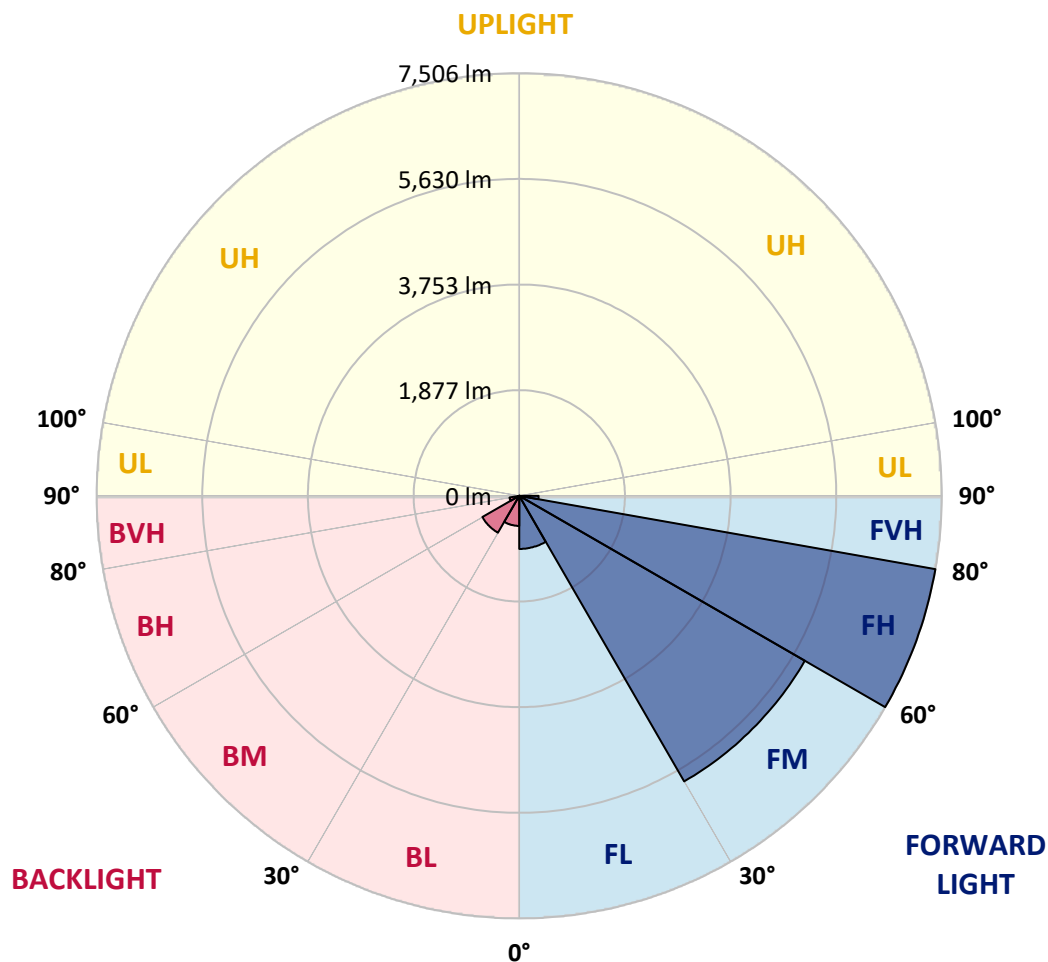
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.0	5.9			
FM	(30°-60°)	5857.1	36.3			
FH	(60°-80°)	7506.0	46.6			G4/12000
FVH	(80°-90°)	343.6	2.1			G3/500
BL	(0°-30°)	534.3	3.3	B2/1000		
BM	(30°-60°)	756.3	4.7	B1/1000		
BH	(60°-80°)	175.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	31°	35°	45°	55°	65°	75°	85°
0°	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3
2.5°	2628.2	2639.2	2651.0	2653.4	2673.1	2673.9	2702.3	2723.6	2744.9	2765.4	2772.5
5°	2358.4	2376.6	2397.9	2419.2	2461.0	2477.5	2546.9	2617.9	2685.8	2750.4	2782.0
7.5°	2070.5	2091.0	2121.0	2173.8	2220.4	2252.7	2362.4	2488.6	2614.8	2733.9	2802.5
10°	1807.9	1826.8	1858.3	1914.3	1986.1	2030.3	2177.8	2352.9	2538.3	2718.9	2833.3
12.5°	1640.6	1650.9	1668.2	1728.2	1792.9	1842.6	2016.1	2233.0	2475.2	2718.1	2882.9
15°	1609.9	1613.0	1598.8	1625.7	1676.1	1724.2	1900.1	2136.0	2427.0	2730.7	2947.6
17.5°	1658.8	1657.2	1609.9	1606.7	1646.9	1686.4	1843.3	2068.9	2393.1	2759.9	3031.2
20°	1732.9	1727.4	1645.4	1630.4	1673.0	1710.0	1839.4	2043.7	2380.5	2808.8	3133.0
22.5°	1831.5	1822.1	1693.5	1677.7	1723.5	1762.1	1888.3	2068.1	2391.5	2874.3	3251.3
25°	1953.8	1939.6	1776.3	1759.0	1805.5	1844.1	1975.9	2138.3	2424.7	2953.9	3401.2
27.5°	2091.8	2071.3	1908.8	1863.9	1916.7	1956.9	2092.6	2245.6	2476.7	3038.3	3584.9
30°	2222.0	2195.1	2048.4	1974.3	2039.0	2083.9	2218.8	2373.4	2560.3	3168.5	3836.6
32.5°	2352.9	2322.9	2173.1	2084.7	2143.1	2192.0	2348.9	2549.3	2717.3	3367.2	4171.0
35°	2654.2	2622.7	2438.9	2292.9	2292.2	2319.8	2531.2	2789.9	2924.8	3644.1	4570.1
37.5°	3161.4	3143.2	2968.1	2691.3	2617.1	2586.4	2779.6	3077.0	3222.9	4025.1	5020.5
40°	3716.7	3700.9	3504.5	3253.7	3140.9	3065.2	3136.1	3476.9	3644.1	4490.5	5480.4
42.5°	4343.7	4268.8	3918.6	3843.7	3742.7	3685.1	3621.2	3969.9	4161.5	4996.8	5936.3
45°	4913.2	4787.0	4332.7	4219.1	4196.2	4210.4	4245.9	4632.4	4743.6	5598.7	6390.6
47.5°	5252.4	5153.0	4804.4	4695.5	4689.2	4783.1	5051.3	5381.0	5323.4	6123.2	6790.5
50°	5575.0	5485.1	5195.6	5222.4	5251.6	5379.4	5965.4	6150.8	5852.7	6598.8	7157.3
52.5°	5836.1	5698.8	5547.4	5698.1	5841.6	6047.5	6908.8	6841.8	6228.1	6977.4	7471.2
55°	5986.7	5924.4	5997.8	6149.2	6419.0	6753.4	7799.3	7416.8	6502.6	7322.9	7680.2
57.5°	6538.9	6416.6	6562.5	6693.5	7045.3	7513.0	8562.1	7845.1	6700.6	7536.7	7728.3
60°	7207.0	7108.4	7194.3	7412.0	7886.9	8436.7	9275.1	8194.5	6803.9	7673.9	7603.7
62.5°	8270.2	8140.1	8086.4	8330.2	8959.6	9559.9	9816.2	8436.7	6781.0	7613.2	7176.2
65°	9694.7	9559.9	9320.1	9540.9	10341.5	10765.1	10421.2	8487.9	6623.3	7121.8	6095.6
67.5°	11154.0	11056.2	10851.1	11223.4	11945.9	12082.3	11060.9	8363.3	6115.3	5774.6	4306.7
70°	12117.8	12076.0	12209.3	13032.8	13677.2	13637.8	11647.7	7693.6	4766.5	3551.0	2130.5
72.5°	11422.9	11623.3	12607.7	14100.8	14888.0	14566.2	11346.4	5907.9	2724.4	1366.1	616.0
73°	10847.1	11103.5	12428.6	14141.0	14983.4	14630.9	11093.2	5422.8	2322.1	1078.2	467.0
75°	7546.1	7860.9	10289.5	13170.1	14537.0	13939.9	9246.7	3319.1	1075.9	478.0	188.5
77.5°	3663.8	3896.5	5665.7	9515.7	11305.4	10891.3	5756.4	1236.8	485.9	298.9	86.8
80°	1367.7	1520.7	2459.4	4843.0	6533.4	6704.5	2531.9	467.7	323.4	240.6	44.2
82.5°	358.1	399.1	907.1	2159.6	3348.3	3504.5	798.2	235.8	236.6	198.0	26.8
85°	114.4	130.9	283.2	969.4	1577.5	1385.1	208.2	114.4	172.0	147.5	15.0
87.5°	14.2	18.1	89.9	228.0	347.8	193.2	32.3	33.9	73.4	82.0	8.7
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°	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3	2773.3
2.5°	2779.6	2775.7	2776.5	2756.0	2742.5	2715.7	2688.1	2675.5	2662.1	2656.6	2662.1
5°	2793.8	2786.7	2766.2	2703.1	2636.1	2549.3	2468.1	2406.5	2329.2	2307.9	2330.0
7.5°	2815.9	2801.7	2741.8	2613.2	2464.1	2298.5	2112.3	1976.7	1865.4	1793.7	1819.7
10°	2848.2	2821.4	2700.7	2482.3	2215.6	1922.2	1658.0	1452.1	1306.2	1246.3	1243.9
12.5°	2902.7	2852.2	2650.3	2311.9	1912.0	1520.7	1174.5	951.3	832.9	756.4	754.9
15°	2962.6	2888.5	2586.4	2107.6	1558.6	1089.3	756.4	586.8	510.3	485.9	482.7
17.5°	3036.0	2930.3	2503.5	1856.0	1188.7	721.7	493.8	444.9	441.7	439.3	439.3
20°	3128.3	2980.0	2397.1	1568.1	843.2	481.9	419.6	422.8	424.4	421.2	422.0
22.5°	3235.5	3030.4	2270.1	1258.9	570.3	403.1	401.5	405.4	407.0	405.4	406.2
25°	3360.2	3088.8	2115.5	934.7	411.7	382.6	386.5	392.0	396.0	396.0	396.0
27.5°	3514.7	3159.8	1929.3	652.3	355.7	361.3	372.3	382.6	388.1	389.7	389.7
30°	3715.9	3248.1	1706.1	447.2	323.4	332.9	353.4	373.1	383.3	384.9	385.7
32.5°	3969.9	3347.5	1447.4	330.5	295.8	302.9	325.0	358.1	377.8	381.0	381.0
35°	4260.9	3462.7	1169.0	287.9	276.1	278.4	295.8	333.6	368.4	377.0	377.8
37.5°	4579.6	3576.3	888.9	269.0	259.5	259.5	272.1	304.5	345.5	372.3	375.5
40°	4877.0	3644.9	623.1	254.0	244.5	244.5	255.6	279.2	317.9	358.1	366.8
42.5°	5151.4	3668.6	433.8	239.8	230.3	232.7	242.2	261.1	290.3	330.5	338.4
45°	5433.8	3664.6	316.3	223.2	216.1	223.2	230.3	244.5	265.8	288.7	290.3
47.5°	5646.8	3631.5	250.8	207.4	202.7	212.2	218.5	228.0	239.8	238.2	238.2
50°	5846.3	3551.0	201.9	186.1	189.3	200.3	203.5	206.7	207.4	192.5	190.9
52.5°	5997.8	3425.6	161.7	163.3	175.9	186.9	183.8	179.1	171.2	153.0	149.9
55°	6048.3	3184.3	127.0	134.9	156.2	170.4	158.5	148.3	133.3	118.3	115.2
57.5°	5956.8	2872.7	103.3	104.9	131.7	143.6	130.1	118.3	101.8	89.1	86.8
60°	5762.7	2526.4	85.2	78.9	101.8	112.0	103.3	91.5	76.5	67.0	66.3
62.5°	5377.8	2157.3	70.2	61.5	77.3	86.0	80.5	71.8	59.2	52.8	52.1
65°	4568.5	1725.8	56.8	49.7	59.9	67.0	62.3	56.0	46.5	41.8	41.0
67.5°	3189.0	1166.6	46.5	41.0	47.3	52.8	48.9	45.7	37.1	36.3	37.1
70°	1538.1	562.4	38.6	33.1	37.1	41.0	39.4	37.1	35.5	41.0	47.3
72.5°	440.9	188.5	30.8	27.6	30.0	32.3	33.9	33.1	38.6	49.7	57.6
73°	339.2	152.2	29.2	26.0	28.4	31.6	33.1	32.3	39.4	50.5	57.6
75°	145.1	73.4	22.1	21.3	23.7	27.6	29.2	29.2	39.4	51.3	55.2
77.5°	65.5	39.4	14.2	16.6	20.5	22.1	24.5	24.5	31.6	39.4	39.4
80°	37.1	21.3	11.0	12.6	15.0	15.0	15.0	13.4	14.2	15.8	17.4
82.5°	23.7	14.2	8.7	10.3	9.5	7.9	6.3	6.3	5.5	6.3	7.9
85°	13.4	7.9	7.9	6.3	3.9	3.2	3.9	3.2	0.8	0.0	0.8
87.5°	7.9	4.7	2.4	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)