

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: P322100

Luminaire Tested: **GAN-SA6D-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26234 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 382
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

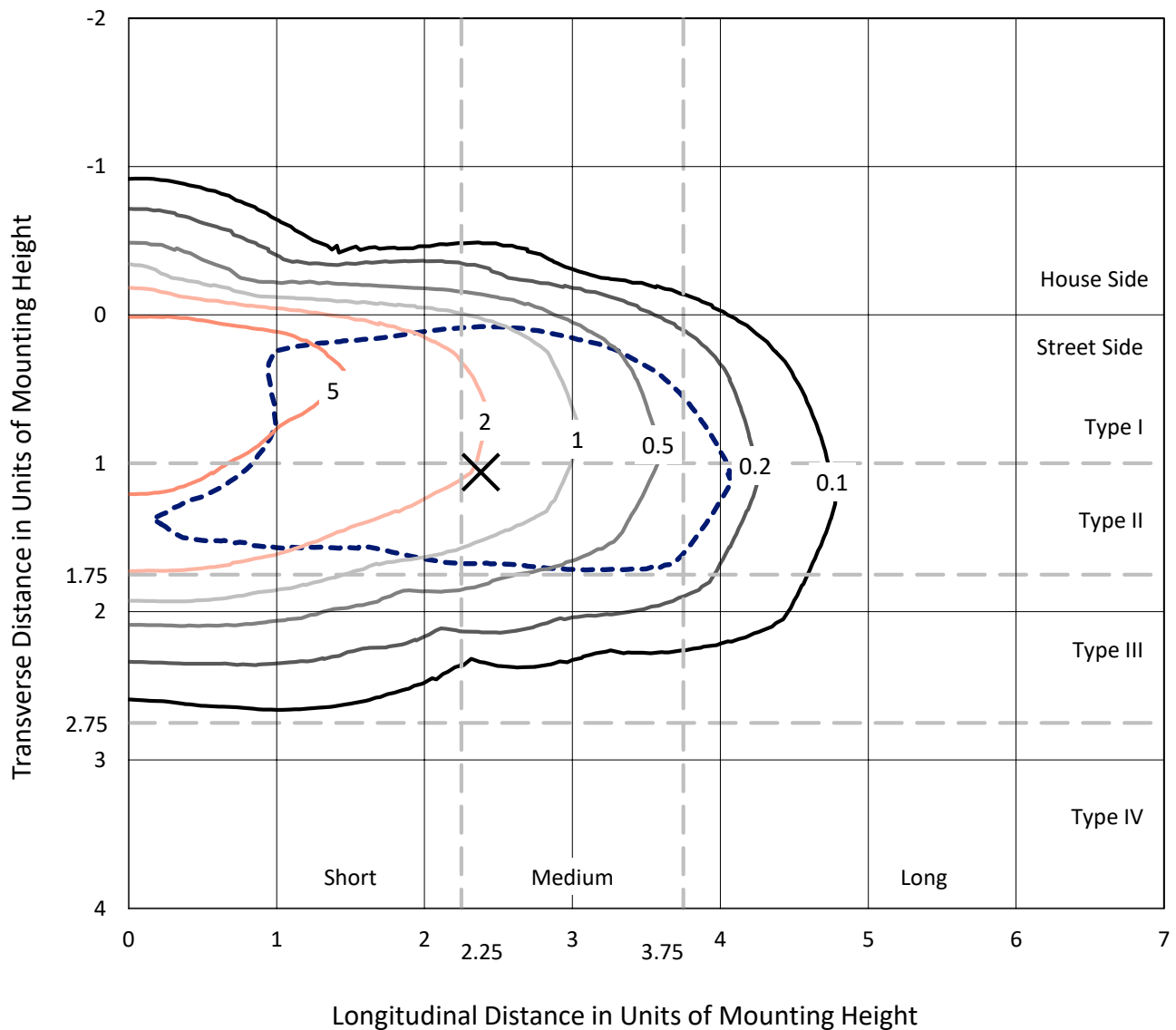


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Iso-Footcandle Lines of Horizontal Illumination

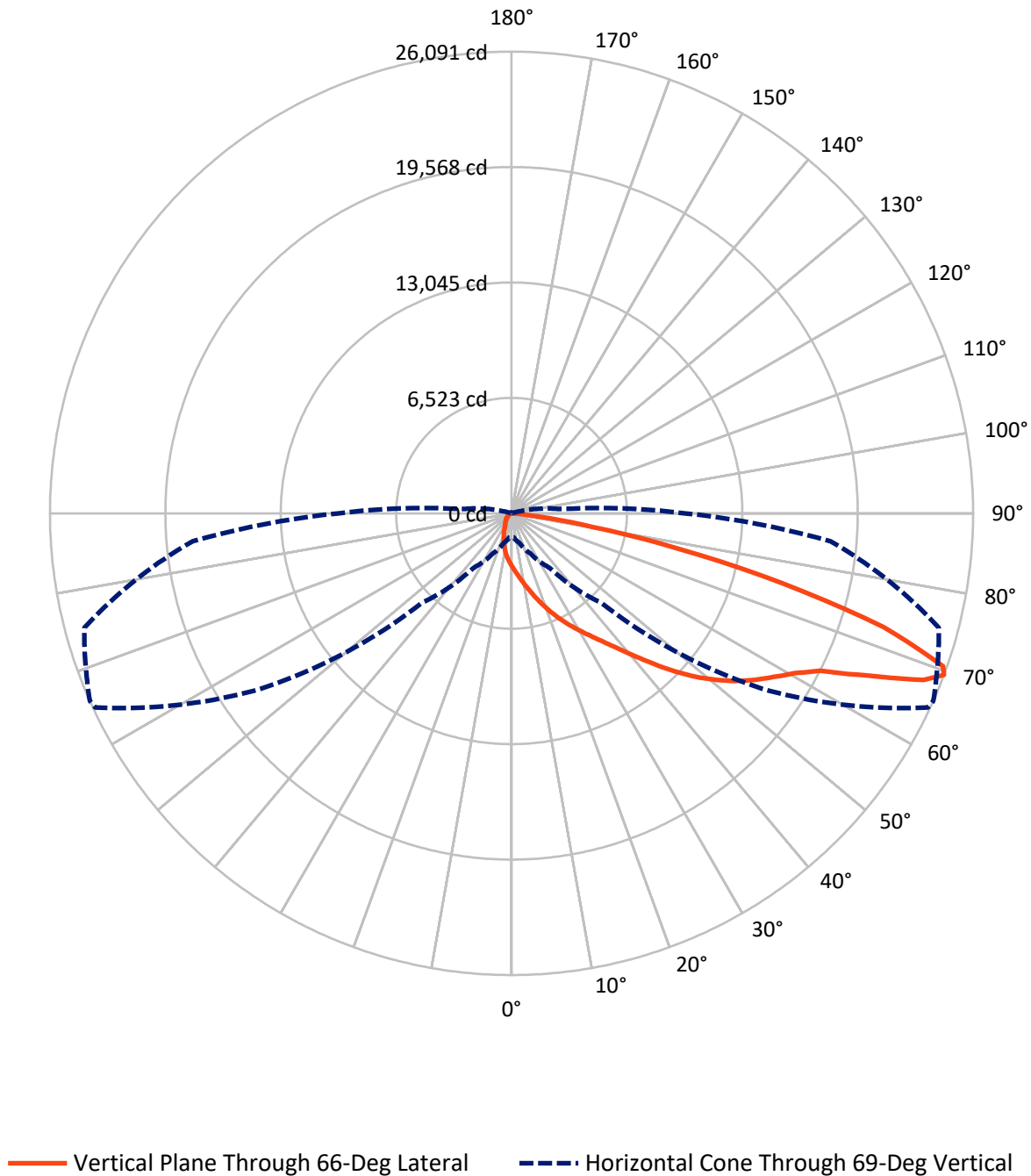
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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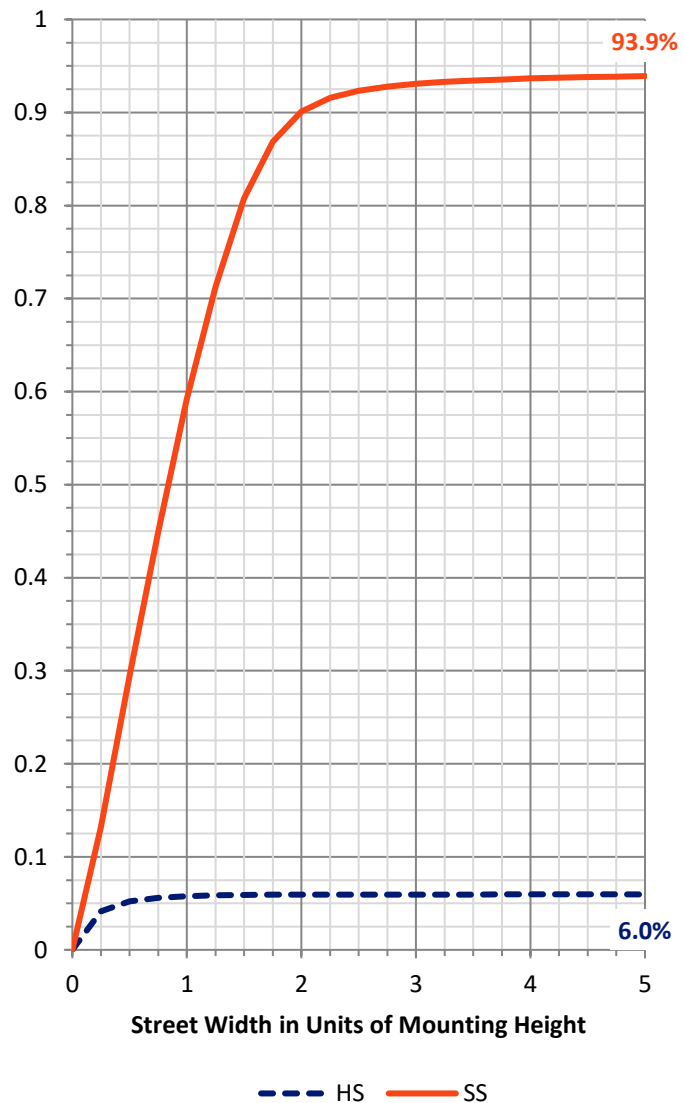
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1573.7	0.0	1573.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24660.3	0.0	24660.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	26234.0	0.0	26234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	1.1
10°-20°	858.9	3.3
20°-30°	1495.7	5.7
30°-40°	2624.1	10.0
40°-50°	4392.4	16.7
50°-60°	6456.4	24.6
60°-70°	6629.1	25.3
70°-80°	3272.6	12.5
80°-90°	216.4	0.8
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°	26234.0	100.0
0°-180°	26234.0	100.0

Coefficient of Utilization



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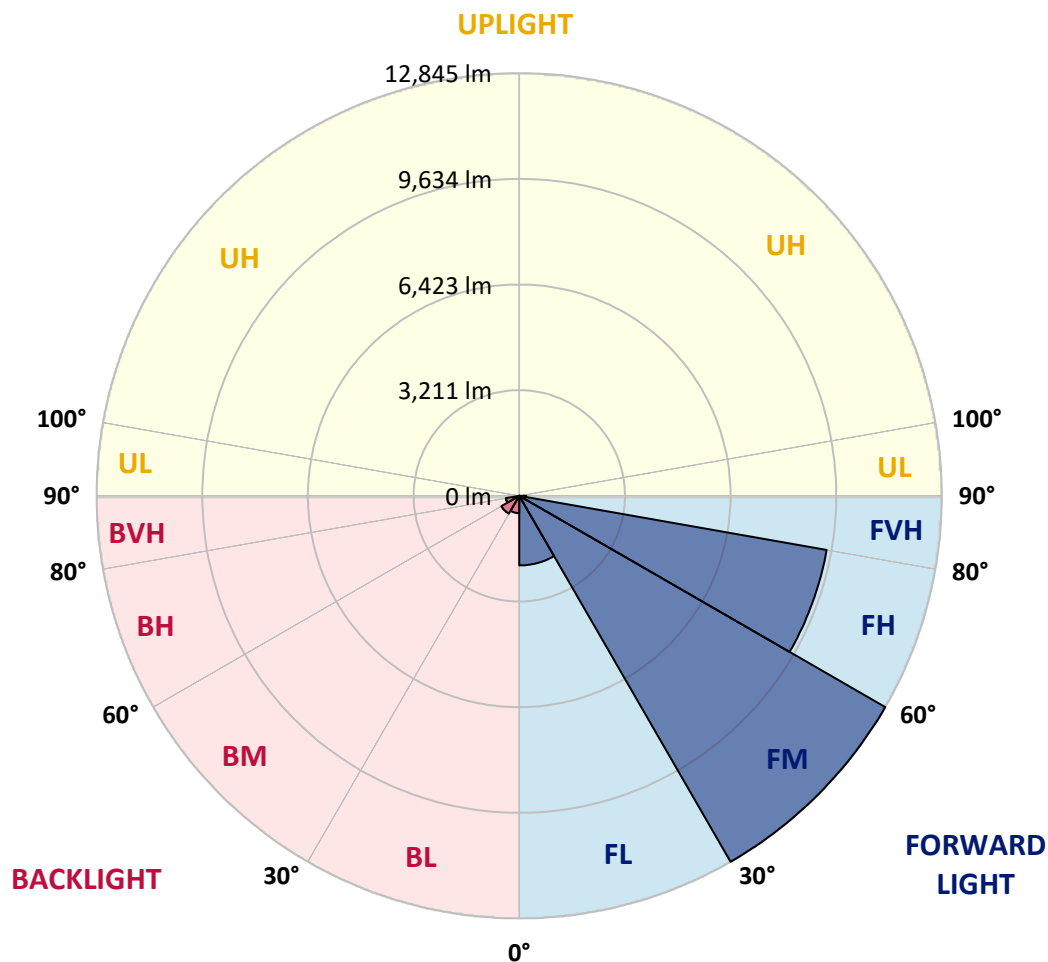
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2116.8	8.1			
FM	(30°-60°)	12845.4	49.0			
FH	(60°-80°)	9486.9	36.2			G4/12000
FVH	(80°-90°)	211.2	0.8			G2/225
BL	(0°-30°)	526.3	2.0	B2/1000		
BM	(30°-60°)	627.4	2.4	B1/1000		
BH	(60°-80°)	414.7	1.6	B1/500		G1/500
BVH	(80°-90°)	5.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5
2.5°	3513.8	3498.9	3492.7	3465.2	3417.9	3381.8	3312.0	3231.0	3216.0	3137.5	3041.6
5°	3969.9	3957.4	3948.7	3910.1	3861.5	3770.5	3643.4	3492.7	3464.0	3314.5	3122.6
7.5°	4287.6	4310.1	4310.1	4285.1	4224.1	4155.5	3999.8	3794.2	3758.1	3528.8	3231.0
10°	4473.3	4500.7	4521.9	4543.1	4534.3	4506.9	4359.9	4128.1	4084.5	3780.5	3356.8
12.5°	4490.7	4518.1	4578.0	4666.4	4752.4	4814.7	4722.5	4498.2	4448.4	4072.1	3506.4
15°	4393.5	4422.2	4514.4	4686.4	4894.4	5076.4	5106.3	4908.2	4857.1	4419.7	3693.3
17.5°	4224.1	4242.8	4374.8	4612.8	4939.3	5273.2	5453.9	5348.0	5300.7	4817.2	3901.4
20°	4098.2	4111.9	4227.8	4483.3	4911.9	5396.6	5782.9	5815.3	5765.4	5243.3	4126.9
22.5°	4313.8	4338.7	4342.5	4463.3	4837.1	5457.7	6072.0	6275.1	6237.7	5695.7	4348.7
25°	4903.2	4931.8	4837.1	4762.4	4900.7	5485.1	6319.9	6746.1	6716.2	6182.9	4571.7
27.5°	5681.9	5711.9	5589.7	5366.7	5233.4	5588.5	6540.5	7224.5	7223.3	6698.7	4812.2
30°	6447.0	6476.9	6352.3	6129.3	5822.7	5881.3	6731.1	7725.5	7732.9	7230.8	5067.6
32.5°	7249.5	7286.8	7158.5	6871.9	6551.7	6387.2	6999.0	8228.9	8271.2	7847.6	5355.5
35°	8161.6	8166.6	7985.9	7685.6	7316.8	7063.8	7428.9	8793.3	8894.2	8611.4	5720.6
37.5°	9056.2	9092.4	8944.1	8470.6	8131.7	7845.1	8068.1	9498.6	9641.9	9544.7	6197.8
40°	9719.1	9795.1	9773.9	9263.1	8941.6	8737.2	8861.8	10337.2	10519.1	10631.2	6799.6
42.5°	10135.3	10192.6	10289.8	9982.0	9690.5	9724.1	9798.9	11314.0	11538.3	11869.8	7491.2
45°	10612.5	10639.9	10720.9	10585.1	10388.2	10727.2	10793.2	12414.3	12649.8	13201.8	8258.8
47.5°	11195.7	11260.5	11282.9	11158.3	11068.6	11614.3	11751.4	13414.9	13745.1	14628.5	9071.2
50°	11938.3	11955.8	11994.4	11913.4	11823.7	12376.9	12611.2	14465.3	14765.6	16060.2	9872.4
52.5°	12664.8	12727.1	12861.6	12810.5	12774.4	13026.1	13377.5	15412.3	15747.5	17253.9	10672.3
55°	12874.1	12927.7	13392.4	13710.2	14004.3	13826.1	14110.2	16260.8	16623.4	18320.5	11442.4
57.5°	12038.0	12146.4	12951.3	13778.7	14998.6	15069.6	15117.0	17131.8	17457.0	19137.9	12243.6
60°	9924.7	9945.9	11266.7	12685.9	14834.1	16154.9	16587.3	18067.6	18340.5	19899.3	13203.0
62.5°	6312.4	6528.0	7977.2	9980.8	13094.6	15997.9	18365.4	19483.1	19582.8	20812.6	14578.7
65°	3006.7	3146.3	4190.4	6166.7	9484.9	13988.1	19592.7	22043.7	22088.6	22623.1	16416.6
67.5°	1664.7	1732.0	2229.2	3319.5	5544.9	9892.3	19096.8	25076.6	25118.9	24472.2	18029.0
69°	1302.1	1359.4	1750.7	2502.0	3759.3	7109.9	17281.3	25965.0	26090.8	25001.8	18086.3
70°	1105.2	1161.3	1507.7	2113.3	3022.9	5493.8	15382.4	25744.4	25877.8	24952.0	17658.9
72.5°	676.6	709.0	1004.3	1487.8	2026.1	2763.7	9486.1	21772.1	21997.6	22888.5	15176.8
75°	456.1	473.5	628.0	1026.7	1449.1	1423.0	4928.1	15346.2	15834.7	17804.7	11209.4
77.5°	326.5	342.7	421.2	664.1	1015.5	939.5	2231.7	9537.2	9641.9	10678.6	6113.1
80°	185.7	200.6	297.8	395.0	689.1	626.8	887.2	4555.5	4607.9	4579.2	2041.0
82.5°	97.2	109.7	163.2	260.4	442.3	409.9	368.8	1525.2	1532.6	1274.7	447.3
85°	18.7	22.4	81.0	178.2	228.0	178.2	150.8	357.6	365.1	322.7	110.9
87.5°	0.0	1.2	32.4	39.9	44.9	46.1	48.6	69.8	74.8	100.9	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°	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5	2985.5
2.5°	2999.2	2954.4	2868.4	2768.7	2691.4	2615.4	2555.6	2493.3	2470.9	2459.7	2458.4
5°	3029.1	2934.4	2752.5	2565.6	2412.3	2267.8	2164.4	2065.9	2019.8	1998.6	1989.9
7.5°	3079.0	2926.9	2634.1	2348.8	2128.2	1947.6	1804.3	1697.1	1643.5	1621.1	1612.4
10°	3137.5	2917.0	2495.8	2119.5	1837.9	1651.0	1509.0	1403.0	1344.5	1319.6	1307.1
12.5°	3206.1	2899.5	2336.3	1887.8	1589.9	1403.0	1231.1	1100.3	1033.0	1004.3	990.6
15°	3290.8	2882.1	2169.4	1669.7	1371.9	1143.9	955.7	867.2	853.5	848.6	849.8
17.5°	3374.3	2854.7	1987.4	1454.1	1142.6	893.4	797.5	792.5	795.0	795.0	795.0
20°	3449.0	2792.4	1789.3	1269.7	924.6	753.9	733.9	725.2	719.0	714.0	707.8
22.5°	3507.6	2708.9	1598.7	1086.5	755.1	690.3	659.2	631.7	609.3	594.4	586.9
25°	3547.5	2598.0	1424.2	910.9	679.1	628.0	571.9	525.8	490.9	469.8	461.0
27.5°	3577.4	2478.4	1268.5	762.6	626.8	555.7	482.2	427.4	391.3	372.6	365.1
30°	3598.6	2342.6	1131.4	670.4	568.2	479.7	401.2	347.6	321.5	311.5	306.5
32.5°	3618.5	2191.8	1001.8	626.8	513.4	409.9	336.4	295.3	279.1	266.7	262.9
35°	3668.3	2052.2	878.5	580.7	457.3	350.1	289.1	259.2	243.0	235.5	233.0
37.5°	3786.7	1948.8	760.1	533.3	401.2	302.8	252.9	231.8	216.8	209.3	206.8
40°	3977.4	1896.5	660.4	482.2	346.4	266.7	229.3	209.3	193.1	181.9	179.4
42.5°	4257.7	1904.0	590.6	431.1	302.8	238.0	206.8	183.2	165.7	155.8	153.3
45°	4597.9	1958.8	542.0	381.3	266.7	215.6	181.9	157.0	140.8	132.1	129.6
47.5°	4966.7	2047.2	502.2	336.4	238.0	194.4	157.0	130.8	117.1	109.7	108.4
50°	5355.5	2133.2	461.0	292.8	213.1	173.2	132.1	108.4	97.2	91.0	88.5
52.5°	5749.2	2232.9	423.7	252.9	191.9	148.3	109.7	88.5	79.7	74.8	72.3
55°	6172.9	2307.7	387.5	221.8	170.7	125.9	91.0	73.5	66.0	59.8	58.6
57.5°	6671.3	2423.5	350.1	191.9	145.8	104.7	74.8	58.6	52.3	46.1	44.9
60°	7344.2	2559.4	310.3	169.5	119.6	86.0	61.1	47.3	39.9	34.9	33.6
62.5°	8231.3	2710.1	260.4	148.3	97.2	69.8	48.6	37.4	28.7	22.4	22.4
65°	9356.5	2955.6	213.1	124.6	79.7	57.3	37.4	27.4	16.2	10.0	10.0
67.5°	10013.2	2998.0	172.0	102.2	64.8	48.6	31.2	18.7	5.0	1.2	0.0
69°	9802.6	2752.5	145.8	87.2	56.1	46.1	28.7	13.7	2.5	0.0	0.0
70°	9406.4	2517.0	128.3	77.3	51.1	43.6	27.4	10.0	2.5	0.0	0.0
72.5°	7772.8	1791.8	97.2	57.3	37.4	38.6	24.9	6.2	2.5	0.0	0.0
75°	5662.0	1089.0	69.8	39.9	23.7	28.7	17.4	2.5	1.2	0.0	0.0
77.5°	3150.0	513.4	43.6	22.4	15.0	17.4	8.7	0.0	0.0	0.0	0.0
80°	1023.0	139.6	19.9	12.5	8.7	10.0	3.7	0.0	0.0	0.0	0.0
82.5°	189.4	39.9	11.2	6.2	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	41.1	16.2	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	5.0	1.2	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)