

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: P321450

Luminaire Tested: **GAN-SA6C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321450
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-SA6C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 27135 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

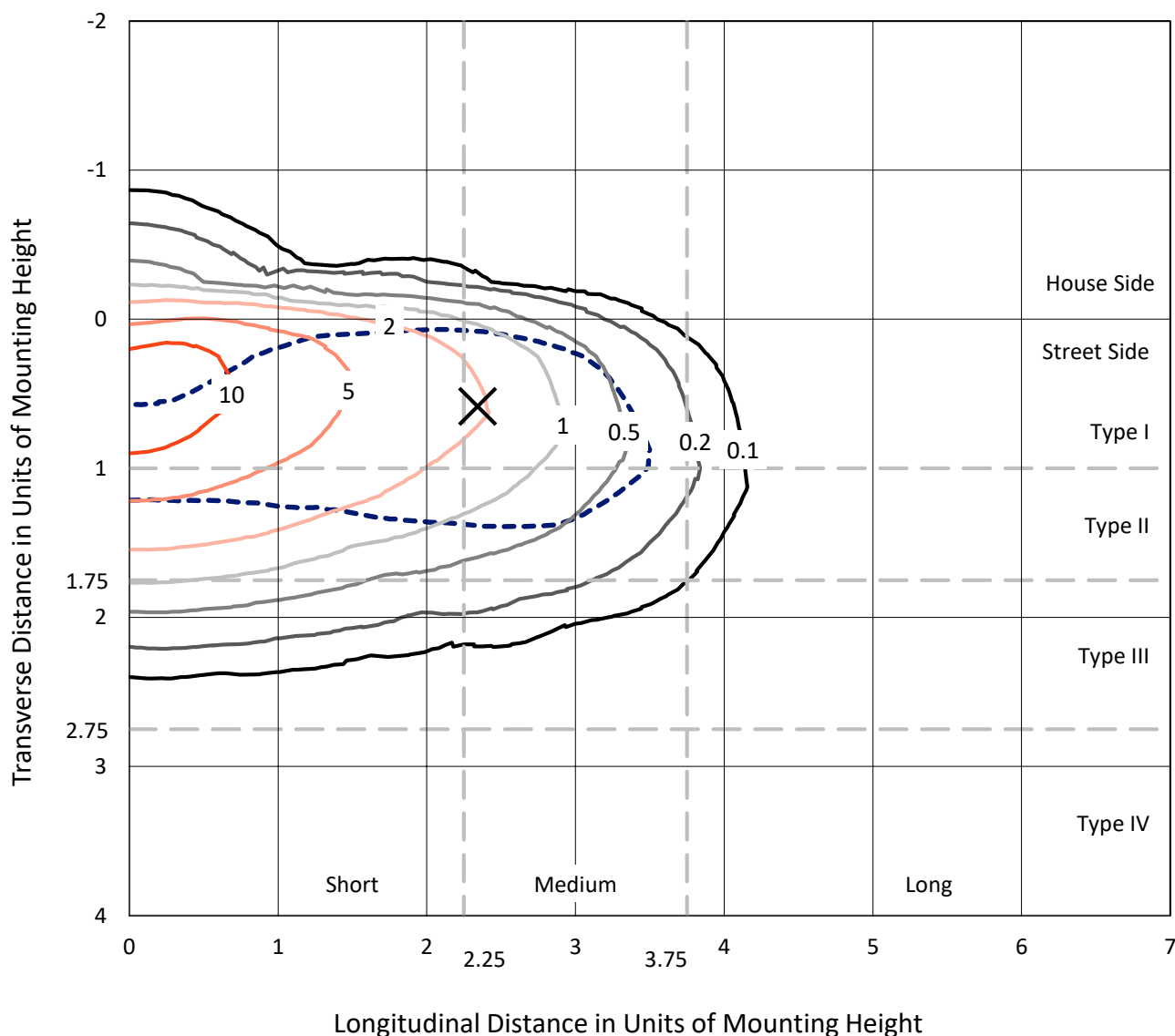
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

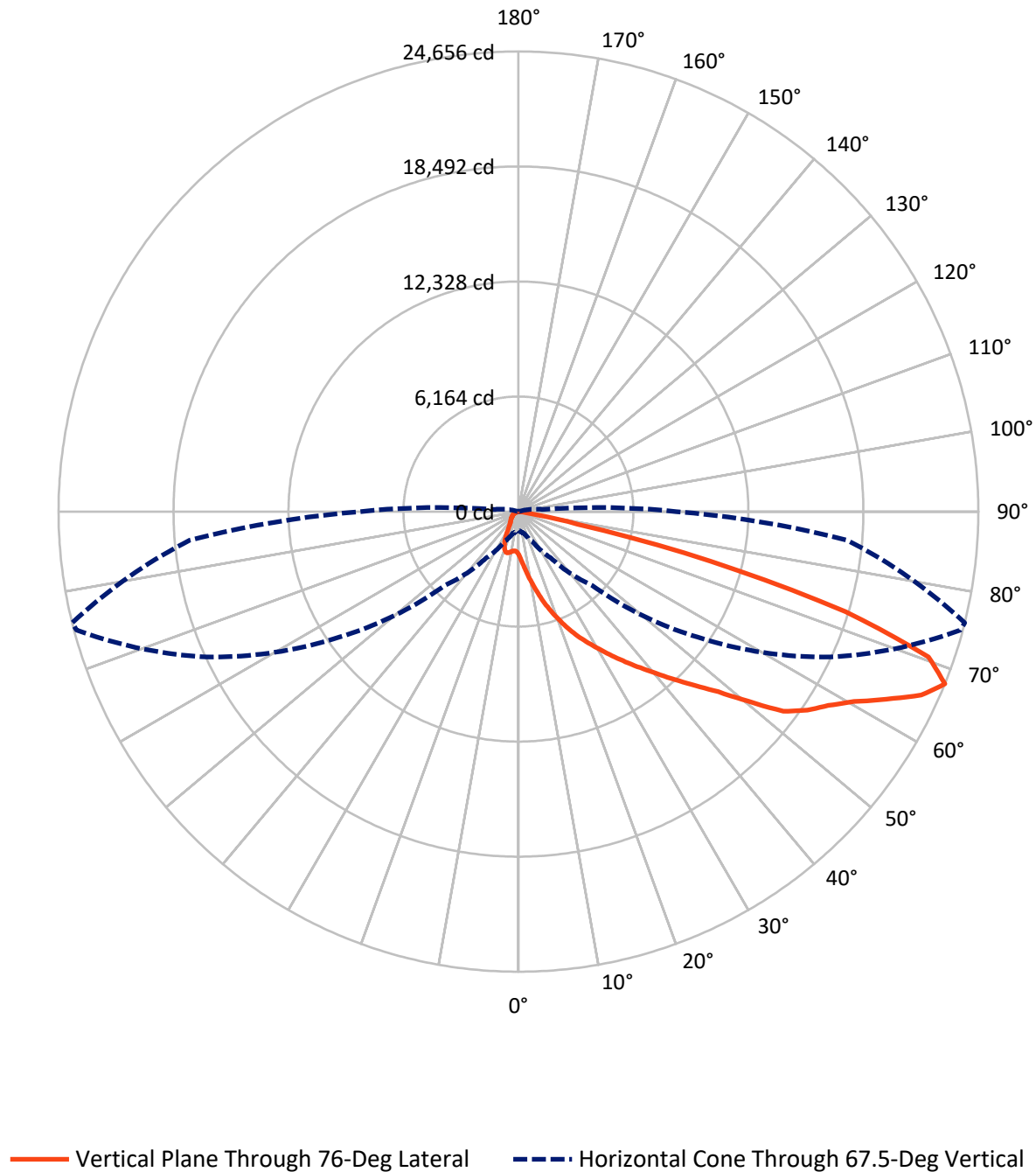
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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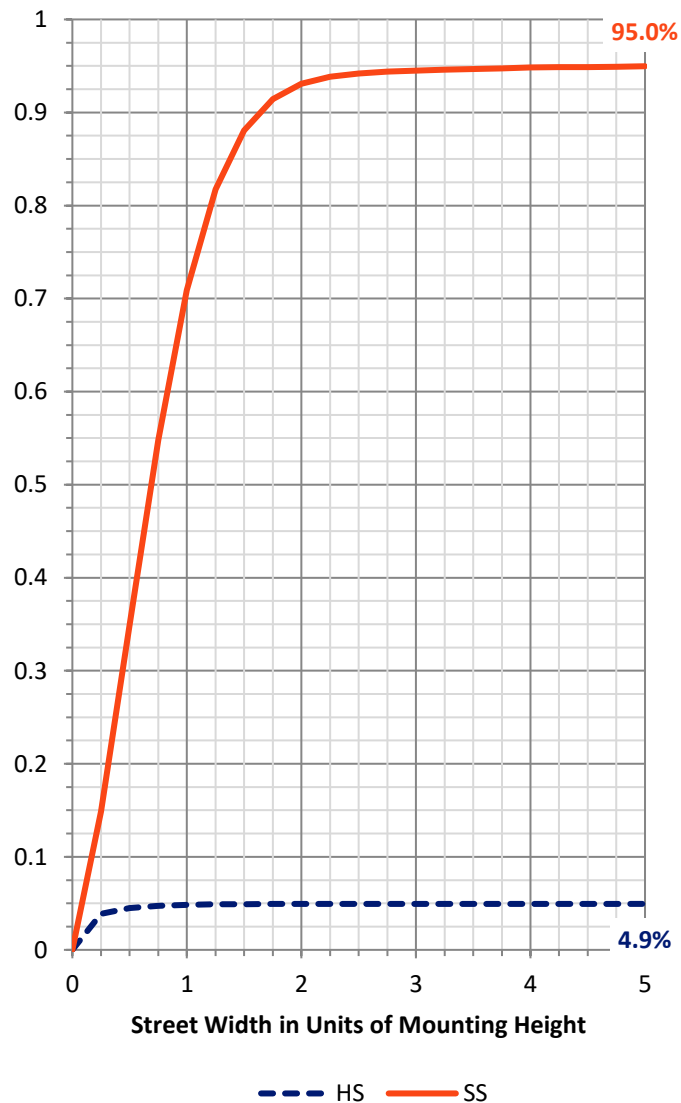
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.4	0.0	1347.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25787.5	0.0	25787.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	27135.0	0.0	27135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	1.1
10°-20°	1134.7	4.2
20°-30°	2308.6	8.5
30°-40°	4007.1	14.8
40°-50°	5661.5	20.9
50°-60°	6420.4	23.7
60°-70°	5325.1	19.6
70°-80°	1928.9	7.1
80°-90°	62.6	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°	27135.0	100.0
0°-180°	27135.0	100.0

Coefficient of Utilization



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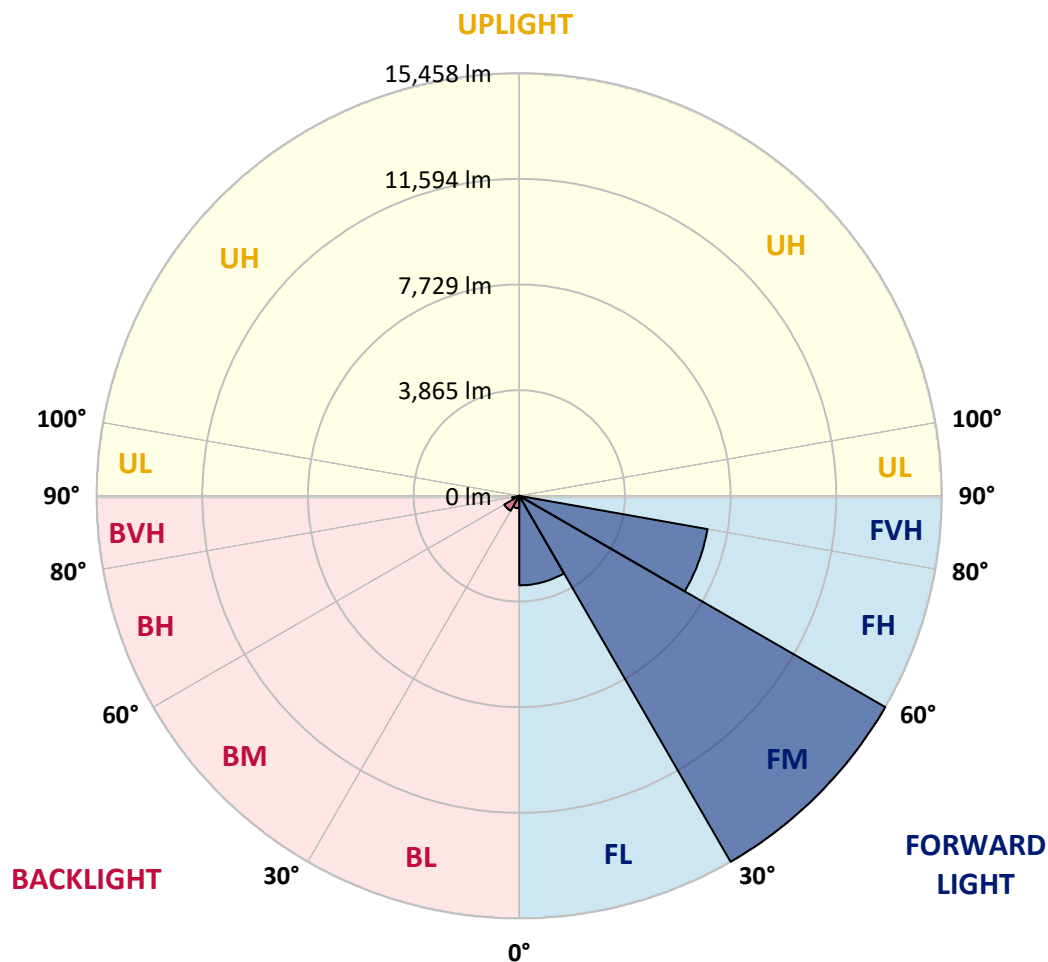
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3275.1	12.1			
FM	(30°-60°)	15458.3	57.0			
FH	(60°-80°)	6993.6	25.8			G3/7500
FVH	(80°-90°)	60.6	0.2			G1/100
BL	(0°-30°)	454.4	1.7	B1/500		
BM	(30°-60°)	630.6	2.3	B1/1000		
BH	(60°-80°)	260.4	1.0	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	3436.1	3358.8	3376.7	3326.7	3236.4	3050.9	2892.7	2742.9	2568.2	2562.2	2418.4
5°	4633.4	4568.0	4559.7	4458.6	4294.5	3979.5	3672.7	3323.2	2933.2	2904.6	2599.1
7.5°	5720.1	5667.8	5648.8	5528.7	5223.1	4916.4	4516.9	4003.2	3393.3	3341.0	2842.8
10°	6554.8	6529.8	6534.5	6448.9	6187.4	5902.0	5377.7	4722.6	3915.3	3834.4	3135.3
12.5°	7187.3	7193.2	7236.0	7183.7	7037.5	6825.8	6265.8	5489.4	4493.1	4382.5	3469.4
15°	7652.2	7681.9	7760.4	7825.8	7815.1	7632.0	7118.3	6268.2	5106.6	4984.1	3841.5
17.5°	7953.0	7986.3	8100.4	8245.5	8378.6	8335.8	7941.1	7019.6	5727.2	5585.8	4239.8
20°	8216.9	8256.2	8378.6	8570.1	8818.5	8872.0	8612.9	7748.5	6346.7	6174.3	4651.2
22.5°	8788.8	8787.6	8862.5	8974.3	9210.9	9348.8	9184.7	8425.0	6959.0	6779.5	5070.9
25°	9823.2	9784.0	9757.8	9669.8	9722.2	9807.8	9716.2	9057.5	7574.9	7393.0	5496.6
27.5°	11052.6	11076.4	10864.8	10628.1	10445.0	10357.1	10207.3	9643.7	8167.0	7967.2	5912.7
30°	12349.8	12356.9	12107.2	11805.2	11402.2	11068.1	10808.9	10203.7	8775.7	8558.2	6317.0
32.5°	13519.7	13473.3	13226.0	12814.7	12305.8	11930.1	11391.5	10829.1	9420.2	9209.7	6766.4
35°	14447.1	14392.4	14091.6	13717.1	13189.2	12811.1	12163.1	11453.3	10097.9	9892.2	7217.0
37.5°	15124.8	15060.6	14751.5	14366.2	13910.9	13690.9	13058.4	12132.2	10837.4	10616.3	7691.4
40°	15360.2	15304.3	15110.5	14828.8	14462.6	14412.6	14008.4	12913.3	11642.3	11406.9	8228.8
42.5°	15219.9	15165.2	15096.3	15001.2	14849.0	14896.5	14904.9	13803.9	12536.4	12304.6	8822.1
45°	14663.5	14614.7	14686.1	14825.2	15014.2	15249.6	15722.9	14761.0	13535.2	13287.9	9508.1
47.5°	13844.3	13808.6	14006.0	14353.2	14906.0	15555.2	16470.7	15766.8	14656.4	14426.9	10364.2
50°	12679.1	12673.2	13067.9	13701.6	14551.7	15702.6	17243.5	16910.6	16213.9	15972.5	11554.4
52.5°	10864.8	10876.6	11653.0	12667.2	13929.9	15602.8	17740.5	18380.2	18025.9	17775.0	12585.2
55°	9137.2	9208.5	9759.0	11221.4	12976.4	15231.8	17911.7	19066.2	19025.8	18788.0	13158.3
57.5°	7445.3	7574.9	8105.2	9471.3	11584.1	14377.0	17817.8	19363.5	19770.1	19588.2	13914.4
60°	5611.9	5671.4	6282.5	7559.4	9797.1	12817.0	17136.5	19525.2	20787.8	20661.8	15011.9
62.5°	3570.5	3719.1	4261.2	5493.0	7628.4	10650.7	15988.0	19522.8	22061.2	22130.2	16427.9
65°	1880.9	2054.5	2342.3	3404.0	5242.1	8231.2	14260.4	19339.7	23623.5	23719.8	17534.8
67.5°	1014.2	1064.1	1216.3	1766.8	3040.2	5576.2	11722.0	18436.1	24528.3	24655.5	17689.4
70°	741.9	769.3	826.3	977.3	1530.2	3238.7	8553.4	16387.5	23361.9	23314.4	15716.9
72.5°	569.5	612.3	655.1	715.8	879.8	1728.8	5325.4	12832.5	18640.6	18326.7	11748.2
75°	449.4	456.6	517.2	571.9	659.9	984.5	2364.8	7473.8	11377.2	10634.1	6092.3
77.5°	359.1	363.8	399.5	447.1	530.3	646.8	732.4	2940.3	3632.3	3241.1	1322.1
80°	212.8	224.7	297.2	344.8	439.9	407.8	267.5	638.5	567.1	513.6	222.3
82.5°	118.9	128.4	167.6	272.3	306.8	195.0	133.2	172.4	133.2	129.6	63.0
85°	0.0	5.9	108.2	168.8	124.8	42.8	55.9	57.1	39.2	36.9	25.0
87.5°	0.0	0.0	33.3	32.1	4.8	7.1	13.1	19.0	15.5	15.5	13.1
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°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2347.0	2282.8	2161.5	2042.6	1942.8	1860.7	1787.0	1757.3	1733.5	1729.9	1710.9
5°	2451.6	2322.0	2090.2	1900.0	1772.7	1682.4	1605.1	1557.5	1520.7	1506.4	1493.3
7.5°	2609.8	2413.6	2080.7	1861.9	1709.7	1557.5	1414.9	1260.3	1164.0	1127.1	1105.7
10°	2802.4	2534.9	2116.4	1851.2	1584.9	1263.9	1027.3	831.1	751.4	725.3	718.1
12.5°	3027.1	2685.9	2178.2	1784.6	1318.6	897.7	708.6	642.0	624.2	615.9	615.9
15°	3285.1	2851.1	2222.2	1592.0	975.0	678.9	613.5	582.6	563.6	552.9	554.1
17.5°	3549.1	3012.8	2200.8	1312.6	719.3	604.0	555.2	522.0	495.8	485.1	482.7
20°	3815.4	3162.6	2081.9	977.3	608.7	548.1	493.4	456.6	430.4	419.7	417.3
22.5°	4091.2	3289.9	1872.6	716.9	546.9	486.3	432.8	395.9	371.0	361.4	356.7
25°	4359.9	3393.3	1580.1	580.2	488.7	428.0	376.9	342.4	319.8	310.3	309.1
27.5°	4610.8	3458.7	1241.3	512.4	437.5	375.7	329.3	298.4	279.4	272.3	271.1
30°	4836.7	3464.6	917.9	462.5	392.4	330.5	287.7	260.4	243.7	236.6	234.2
32.5°	5065.0	3414.7	668.2	417.3	350.7	291.3	249.7	228.3	216.4	210.4	210.4
35°	5280.2	3299.4	520.8	378.1	310.3	253.2	220.0	204.5	197.4	191.4	191.4
37.5°	5490.6	3134.1	442.3	343.6	272.3	221.1	193.8	184.3	178.3	172.4	172.4
40°	5704.6	2926.0	401.9	311.5	241.4	196.2	172.4	164.1	158.1	153.4	152.2
42.5°	5967.4	2685.9	375.7	281.8	214.0	173.6	152.2	142.7	137.9	133.2	130.8
45°	6271.8	2479.0	354.3	252.1	191.4	154.6	132.0	122.5	115.3	109.4	108.2
47.5°	6710.5	2329.2	325.8	220.0	170.0	134.4	114.1	103.4	92.7	86.8	85.6
50°	7270.5	2205.5	288.9	191.4	148.6	114.1	95.1	82.0	72.5	66.6	66.6
52.5°	7548.7	2043.8	255.6	166.5	124.8	96.3	77.3	61.8	57.1	51.1	51.1
55°	7660.5	1920.2	222.3	141.5	103.4	79.7	60.6	47.6	44.0	40.4	39.2
57.5°	7974.4	1884.5	193.8	120.1	85.6	63.0	46.4	35.7	33.3	28.5	28.5
60°	8479.7	1902.3	167.6	102.3	69.0	48.7	34.5	27.3	25.0	20.2	20.2
62.5°	9025.4	1879.8	141.5	88.0	53.5	35.7	23.8	20.2	20.2	11.9	10.7
65°	9130.1	1674.1	121.3	72.5	41.6	26.2	15.5	13.1	17.8	2.4	0.0
67.5°	8473.7	1298.3	104.6	55.9	30.9	20.2	11.9	5.9	15.5	0.0	0.0
70°	6775.9	825.1	84.4	40.4	23.8	16.6	9.5	2.4	11.9	0.0	0.0
72.5°	4791.5	479.2	66.6	28.5	20.2	13.1	7.1	0.0	7.1	0.0	0.0
75°	2423.1	255.6	41.6	21.4	15.5	9.5	4.8	0.0	1.2	0.0	0.0
77.5°	524.3	118.9	26.2	15.5	10.7	5.9	2.4	0.0	0.0	0.0	0.0
80°	114.1	52.3	16.6	9.5	5.9	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	41.6	27.3	8.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	14.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	4.8	1.2	1.2	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)