

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: P321441

Luminaire Tested: **GAN-SA7B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321441
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-SA7B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 25927 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

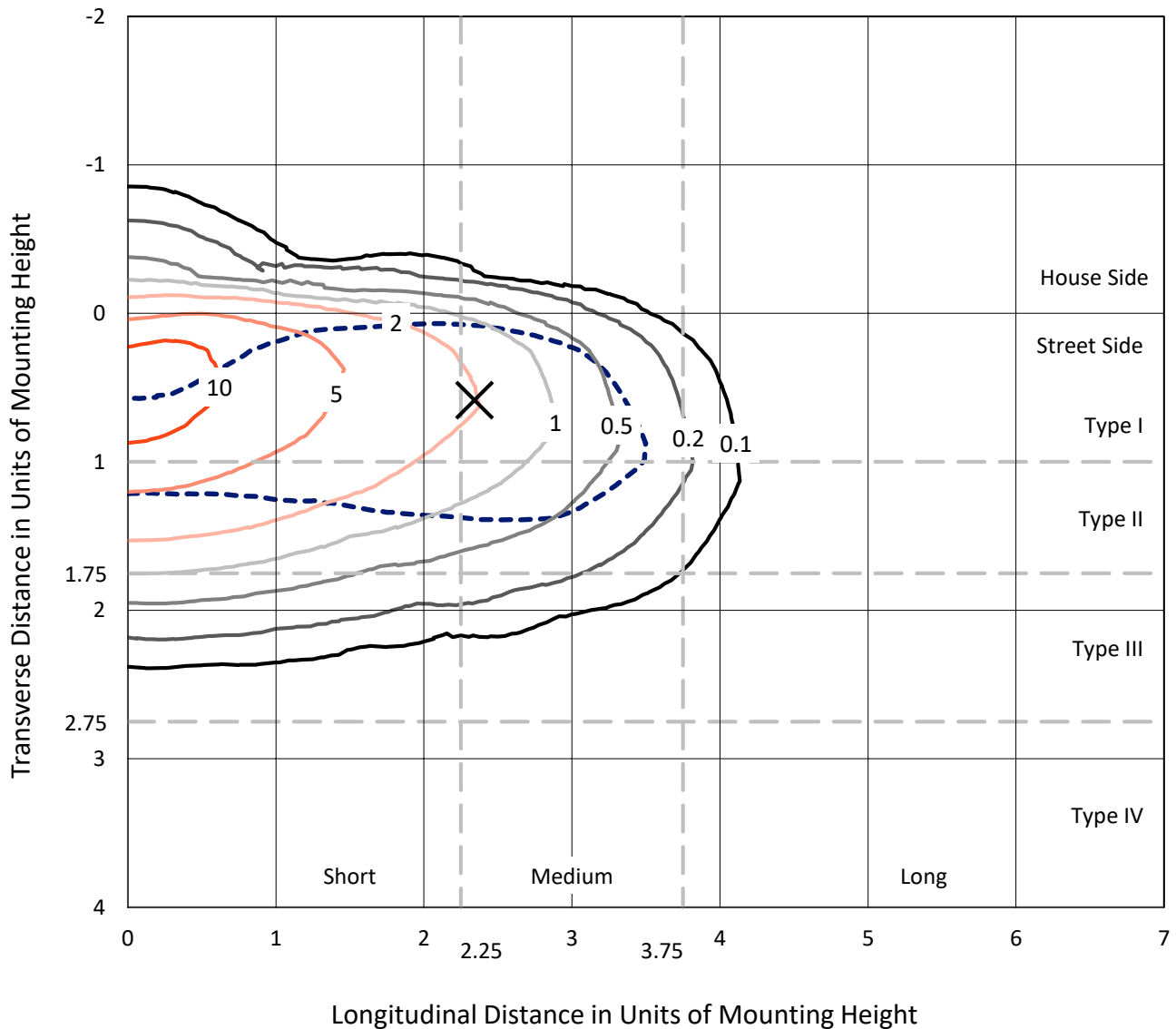
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

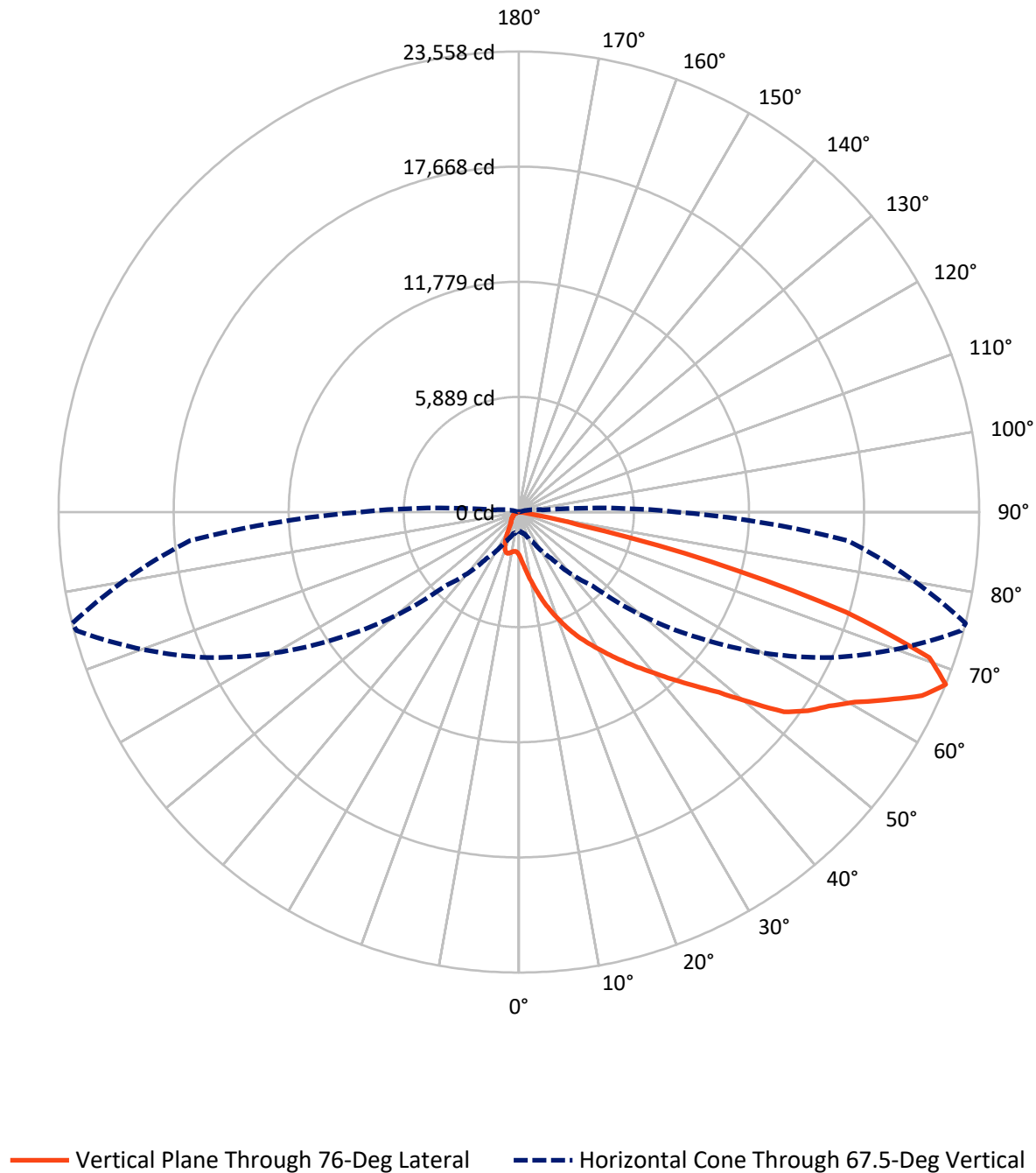
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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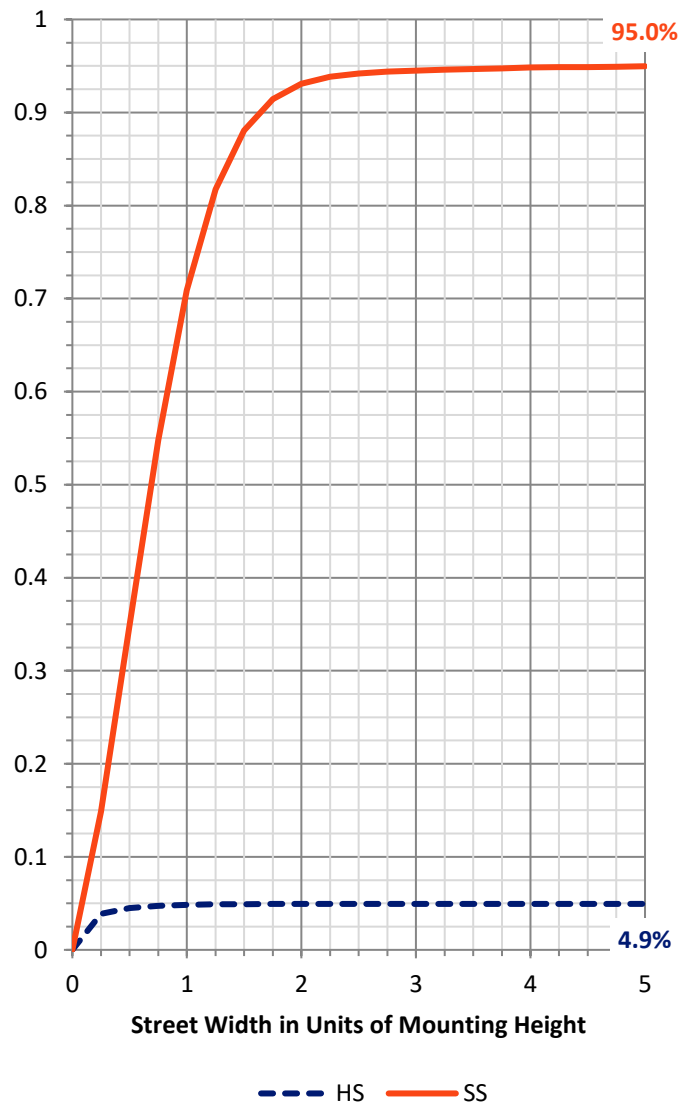
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1287.5	0.0	1287.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24639.5	0.0	24639.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	25927.0	0.0	25927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.1
10°-20°	1084.1	4.2
20°-30°	2205.9	8.5
30°-40°	3828.7	14.8
40°-50°	5409.4	20.9
50°-60°	6134.5	23.7
60°-70°	5088.0	19.6
70°-80°	1843.0	7.1
80°-90°	59.8	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°	25927.0	100.0
0°-180°	25927.0	100.0

Coefficient of Utilization



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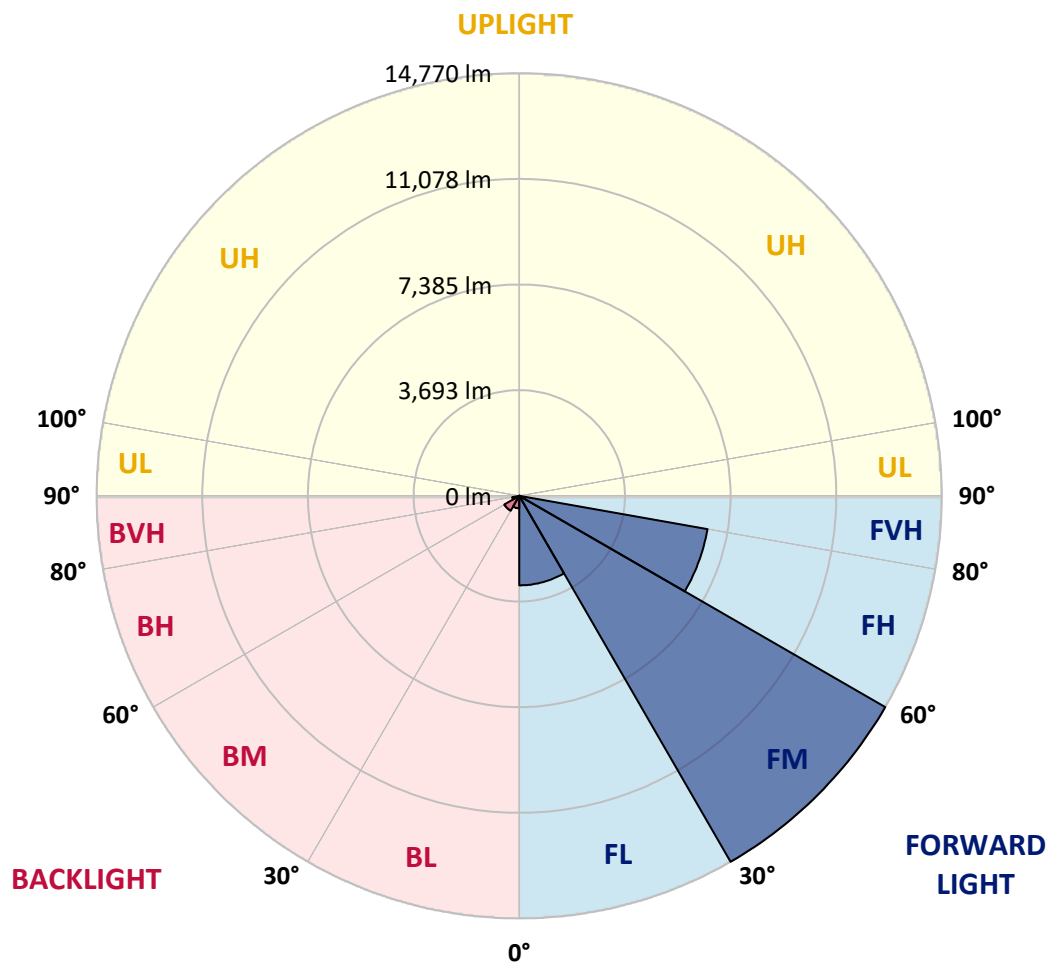
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3129.3	12.1			
FM	(30°-60°)	14770.1	57.0			
FH	(60°-80°)	6682.3	25.8			G3/7500
FVH	(80°-90°)	57.9	0.2			G1/100
BL	(0°-30°)	434.2	1.7	B1/500		
BM	(30°-60°)	602.6	2.3	B1/1000		
BH	(60°-80°)	248.8	1.0	B1/500		G1/500
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: 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°	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4
2.5°	3283.1	3209.3	3226.3	3178.6	3092.3	2915.1	2764.0	2620.8	2453.8	2448.2	2310.7
5°	4427.1	4364.6	4356.7	4260.1	4103.4	3802.3	3509.2	3175.2	2802.6	2775.3	2483.4
7.5°	5465.5	5415.5	5397.3	5282.6	4990.6	4697.5	4315.8	3825.0	3242.2	3192.3	2716.3
10°	6263.0	6239.1	6243.6	6161.8	5911.9	5639.3	5138.3	4512.3	3741.0	3663.7	2995.7
12.5°	6867.3	6873.0	6913.9	6863.9	6724.2	6522.0	5986.9	5245.1	4293.1	4187.4	3314.9
15°	7311.5	7339.9	7414.9	7477.4	7467.1	7292.2	6801.4	5989.2	4879.3	4762.3	3670.5
17.5°	7598.9	7630.7	7739.8	7878.4	8005.6	7964.7	7587.6	6707.1	5472.3	5337.1	4051.1
20°	7851.1	7888.6	8005.6	8188.5	8426.0	8477.1	8229.4	7403.5	6064.1	5899.4	4444.2
22.5°	8397.6	8396.4	8468.0	8574.8	8800.9	8932.6	8775.9	8049.9	6649.2	6477.7	4845.2
25°	9385.9	9348.4	9323.4	9239.4	9289.3	9371.1	9283.7	8654.3	7237.7	7063.9	5251.9
27.5°	10560.6	10583.3	10381.1	10155.0	9980.1	9896.0	9752.8	9214.4	7803.4	7612.6	5649.5
30°	11800.0	11806.8	11568.2	11279.7	10894.6	10575.3	10327.7	9749.4	8385.1	8177.2	6035.7
32.5°	12917.8	12873.5	12637.2	12244.2	11757.9	11399.0	10884.3	10347.0	9000.8	8799.7	6465.2
35°	13803.9	13751.7	13464.3	13106.4	12602.0	12240.8	11621.6	10943.4	9648.3	9451.8	6895.7
37.5°	14451.5	14390.1	14094.8	13726.7	13291.6	13081.4	12477.1	11592.1	10354.9	10143.6	7349.0
40°	14676.4	14623.0	14437.8	14168.6	13818.7	13771.0	13384.7	12338.5	11124.0	10899.1	7862.5
42.5°	14542.4	14490.1	14424.2	14333.3	14187.9	14233.4	14241.3	13189.3	11978.3	11756.8	8429.4
45°	14010.7	13964.1	14032.3	14165.2	14345.8	14570.8	15022.9	14103.9	12932.6	12696.3	9084.9
47.5°	13228.0	13193.9	13382.5	13714.2	14242.4	14862.7	15737.5	15064.9	14003.9	13784.6	9902.8
50°	12114.7	12109.0	12486.1	13091.6	13903.9	15003.6	16475.9	16157.8	15492.1	15261.5	11040.0
52.5°	10381.1	10392.4	11134.3	12103.3	13309.8	14908.2	16950.8	17561.9	17223.4	16983.7	12024.9
55°	8730.4	8798.6	9324.6	10721.9	12398.7	14553.7	17114.3	18217.4	18178.8	17951.6	12572.5
57.5°	7113.8	7237.7	7744.3	9049.6	11068.4	13736.9	17024.6	18501.4	18890.0	18716.1	13295.0
60°	5362.1	5418.9	6002.8	7222.9	9360.9	12246.4	16373.6	18655.9	19862.4	19742.0	14343.6
62.5°	3411.5	3553.5	4071.5	5248.5	7288.8	10176.6	15276.2	18653.7	21079.1	21145.0	15696.6
65°	1797.2	1963.1	2238.0	3252.5	5008.8	7864.8	13625.6	18478.7	22571.8	22663.9	16754.2
67.5°	969.0	1016.7	1162.2	1688.1	2904.8	5328.0	11200.2	17615.3	23436.4	23557.9	16901.9
70°	708.9	735.0	789.5	933.8	1462.1	3094.6	8172.6	15657.9	22321.9	22276.5	15017.2
72.5°	544.2	585.1	626.0	683.9	840.7	1651.8	5088.3	12261.2	17810.7	17510.8	11225.1
75°	429.4	436.2	494.2	546.4	630.5	940.6	2259.6	7141.1	10870.7	10160.7	5821.0
77.5°	343.1	347.6	381.7	427.1	506.7	618.0	699.8	2809.4	3470.6	3096.8	1263.3
80°	203.3	214.7	284.0	329.4	420.3	389.7	255.6	610.0	541.9	490.8	212.4
82.5°	113.6	122.7	160.2	260.2	293.1	186.3	127.2	164.7	127.2	123.8	60.2
85°	0.0	5.7	103.4	161.3	119.3	40.9	53.4	54.5	37.5	35.2	23.9
87.5°	0.0	0.0	31.8	30.7	4.5	6.8	12.5	18.2	14.8	14.8	12.5
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°	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4	2199.4
2.5°	2242.5	2181.2	2065.3	1951.7	1856.3	1777.9	1707.5	1679.1	1656.3	1652.9	1634.8
5°	2342.5	2218.7	1997.1	1815.4	1693.8	1607.5	1533.6	1488.2	1453.0	1439.4	1426.9
7.5°	2493.6	2306.1	1988.1	1779.0	1633.6	1488.2	1351.9	1204.2	1112.2	1077.0	1056.5
10°	2677.6	2422.0	2022.1	1768.8	1514.3	1207.6	981.5	794.1	718.0	693.0	686.2
12.5°	2892.3	2566.3	2081.2	1705.2	1259.9	857.7	677.1	613.5	596.4	588.5	588.5
15°	3138.9	2724.2	2123.2	1521.1	931.5	648.7	586.2	556.7	538.5	528.3	529.4
17.5°	3391.1	2878.7	2102.8	1254.2	687.3	577.1	530.5	498.7	473.7	463.5	461.2
20°	3645.5	3021.8	1989.2	933.8	581.6	523.7	471.5	436.2	411.2	401.0	398.7
22.5°	3909.1	3143.4	1789.3	685.0	522.6	464.6	413.5	378.3	354.4	345.4	340.8
25°	4165.8	3242.2	1509.8	554.4	466.9	409.0	360.1	327.2	305.6	296.5	295.4
27.5°	4405.5	3304.7	1186.0	489.6	418.1	359.0	314.7	285.1	267.0	260.2	259.0
30°	4621.4	3310.4	877.0	441.9	374.9	315.8	274.9	248.8	232.9	226.1	223.8
32.5°	4839.5	3262.7	638.5	398.7	335.1	278.3	238.6	218.1	206.8	201.1	201.1
35°	5045.1	3152.5	497.6	361.3	296.5	242.0	210.2	195.4	188.6	182.9	182.9
37.5°	5246.2	2994.6	422.6	328.3	260.2	211.3	185.2	176.1	170.4	164.7	164.7
40°	5450.7	2795.8	384.0	297.6	230.6	187.4	164.7	156.8	151.1	146.5	145.4
42.5°	5701.8	2566.3	359.0	269.2	204.5	165.9	145.4	136.3	131.8	127.2	125.0
45°	5992.6	2368.6	338.5	240.8	182.9	147.7	126.1	117.0	110.2	104.5	103.4
47.5°	6411.8	2225.5	311.3	210.2	162.5	128.4	109.1	98.8	88.6	82.9	81.8
50°	6946.8	2107.3	276.1	182.9	142.0	109.1	90.9	78.4	69.3	63.6	63.6
52.5°	7212.7	1952.8	244.2	159.0	119.3	92.0	73.8	59.1	54.5	48.8	48.8
55°	7319.5	1834.7	212.4	135.2	98.8	76.1	57.9	45.4	42.0	38.6	37.5
57.5°	7619.4	1800.6	185.2	114.7	81.8	60.2	44.3	34.1	31.8	27.3	27.3
60°	8102.2	1817.7	160.2	97.7	65.9	46.6	32.9	26.1	23.9	19.3	19.3
62.5°	8623.6	1796.1	135.2	84.1	51.1	34.1	22.7	19.3	19.3	11.4	10.2
65°	8723.6	1599.5	115.9	69.3	39.8	25.0	14.8	12.5	17.0	2.3	0.0
67.5°	8096.5	1240.5	100.0	53.4	29.5	19.3	11.4	5.7	14.8	0.0	0.0
70°	6474.3	788.4	80.7	38.6	22.7	15.9	9.1	2.3	11.4	0.0	0.0
72.5°	4578.2	457.8	63.6	27.3	19.3	12.5	6.8	0.0	6.8	0.0	0.0
75°	2315.2	244.2	39.8	20.4	14.8	9.1	4.5	0.0	1.1	0.0	0.0
77.5°	501.0	113.6	25.0	14.8	10.2	5.7	2.3	0.0	0.0	0.0	0.0
80°	109.1	50.0	15.9	9.1	5.7	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.8	26.1	8.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.6	13.6	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	4.5	1.1	1.1	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)