

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: P321444

Luminaire Tested: **GAN-SA0B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321444
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-SA0B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 36281 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

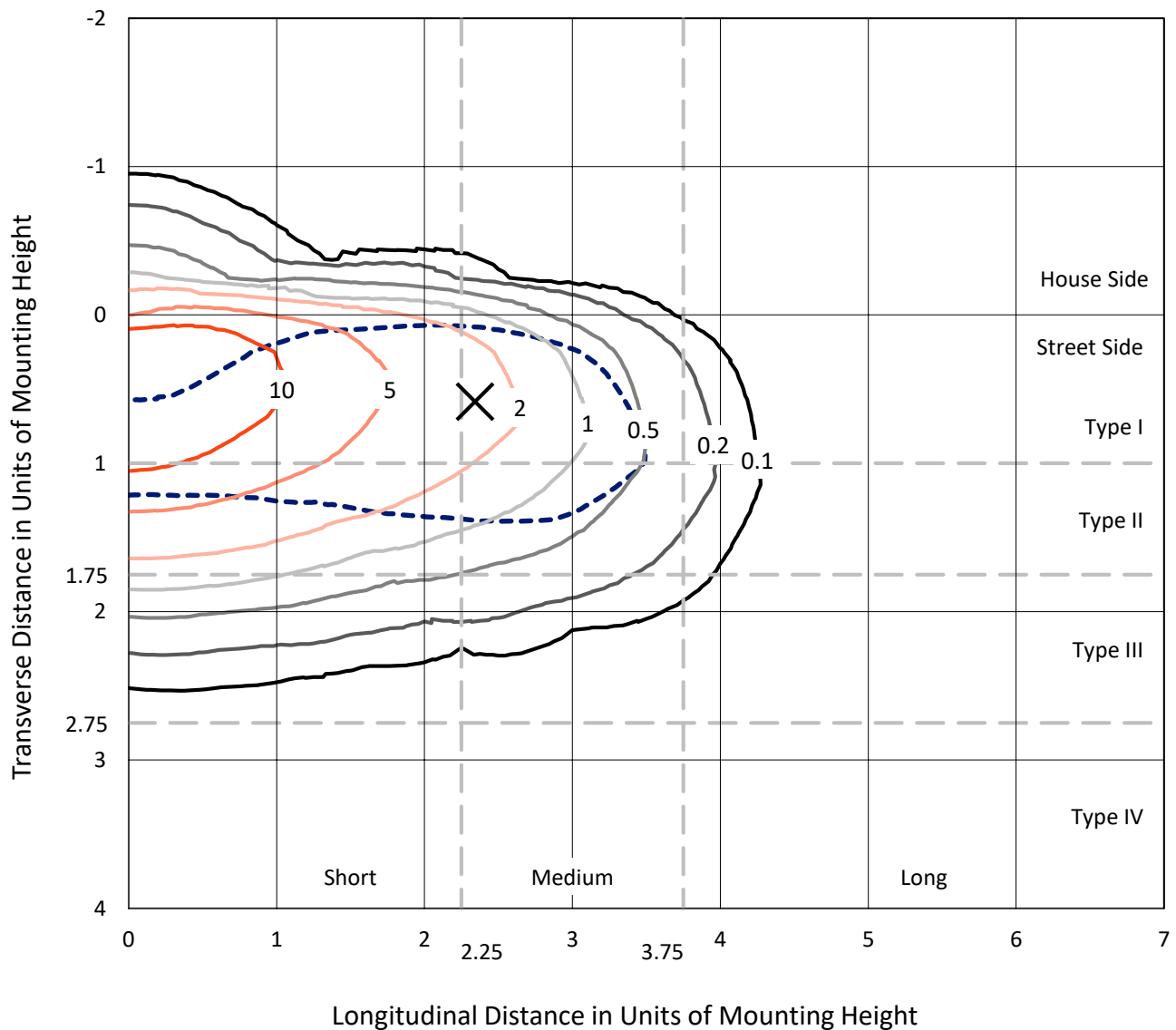
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

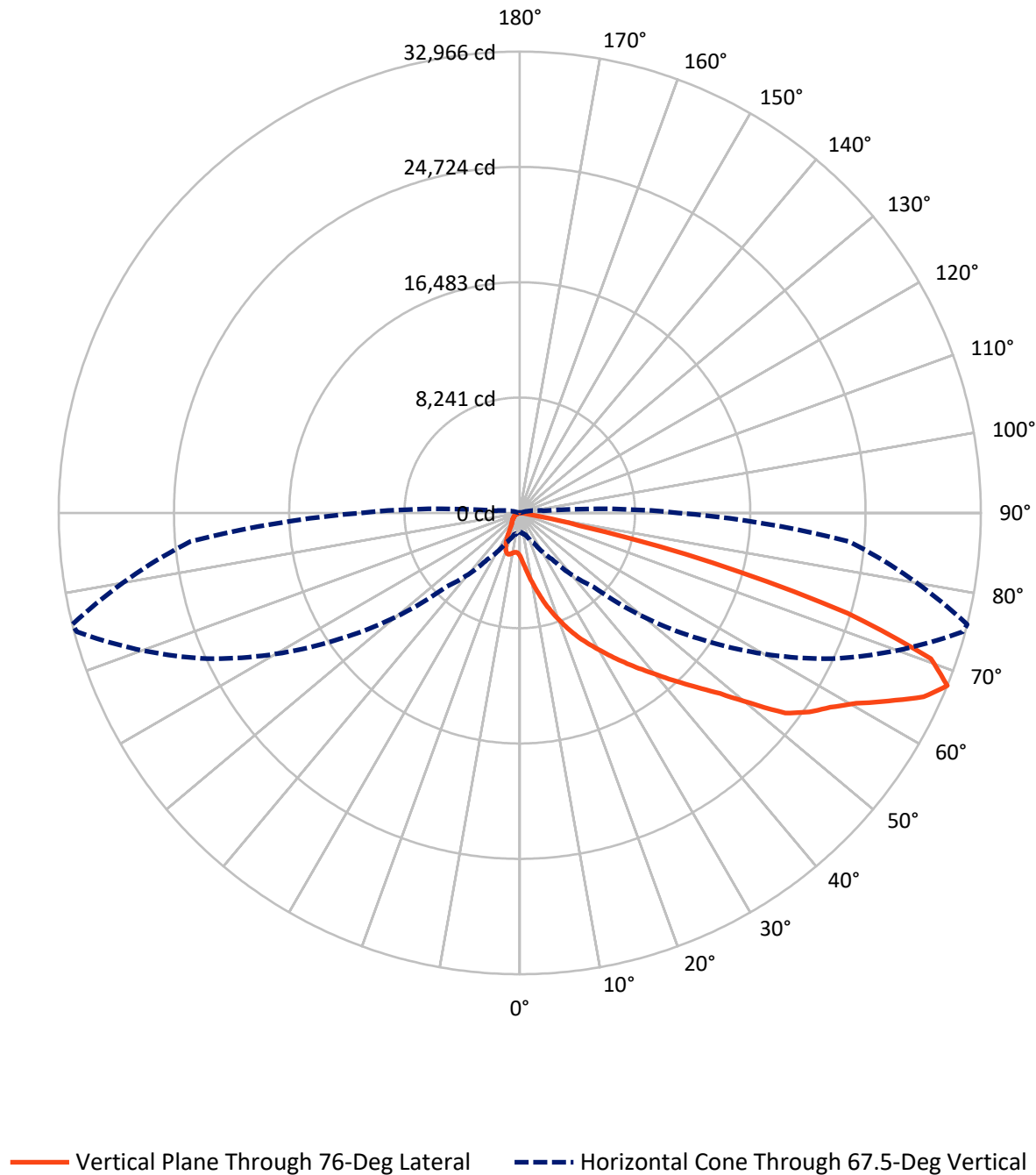
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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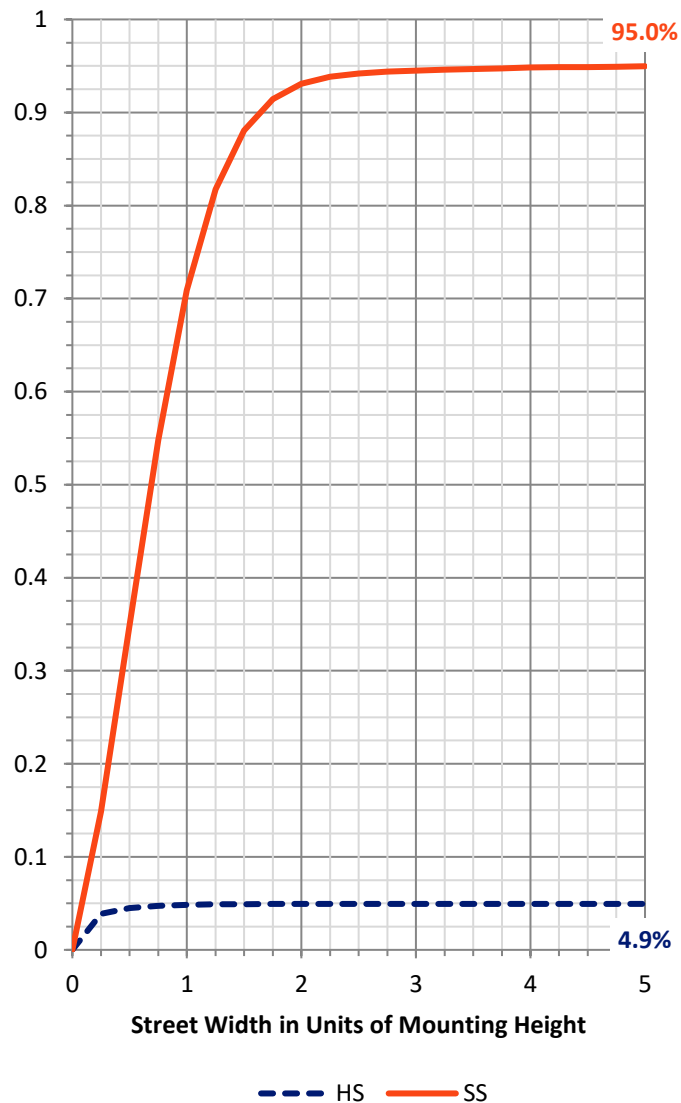
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1801.6	0.0	1801.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	34479.4	0.0	34479.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	36281.0	0.0	36281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.1
10°-20°	1517.1	4.2
20°-30°	3086.8	8.5
30°-40°	5357.7	14.8
40°-50°	7569.7	20.9
50°-60°	8584.4	23.7
60°-70°	7119.9	19.6
70°-80°	2579.1	7.1
80°-90°	83.6	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°	36281.0	100.0
0°-180°	36281.0	100.0

Coefficient of Utilization



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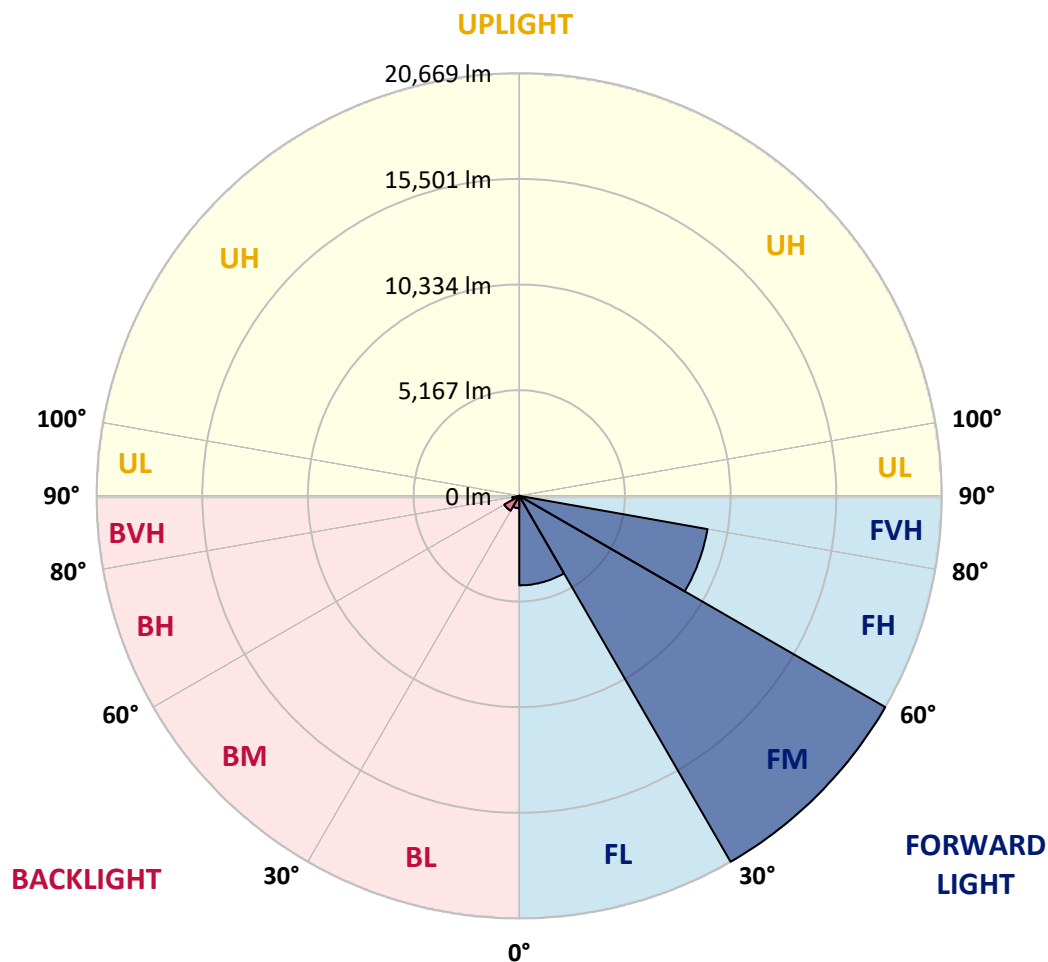
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4379.0	12.1			
FM	(30°-60°)	20668.6	57.0			
FH	(60°-80°)	9350.8	25.8			G4/12000
FVH	(80°-90°)	81.0	0.2			G1/100
BL	(0°-30°)	607.6	1.7	B2/1000		
BM	(30°-60°)	843.2	2.3	B1/1000		
BH	(60°-80°)	348.2	1.0	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	75°	76°	85°
0°	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7
2.5°	4594.3	4490.9	4514.8	4448.0	4327.2	4079.2	3867.8	3667.5	3433.8	3425.8	3233.5
5°	6195.1	6107.7	6096.5	5961.4	5742.0	5320.8	4910.6	4443.2	3921.8	3883.7	3475.1
7.5°	7648.1	7578.2	7552.7	7392.2	6983.6	6573.5	6039.3	5352.6	4537.0	4467.1	3801.0
10°	8764.1	8730.7	8737.0	8622.6	8272.9	7891.3	7190.3	6314.3	5234.9	5126.8	4192.1
12.5°	9609.8	9617.7	9675.0	9605.0	9409.5	9126.5	8377.8	7339.7	6007.5	5859.7	4638.8
15°	10231.4	10271.1	10376.0	10463.5	10449.2	10204.4	9517.6	8381.0	6827.8	6664.1	5136.4
17.5°	10633.6	10678.1	10830.7	11024.6	11202.7	11145.5	10617.7	9385.7	7657.6	7468.5	5668.9
20°	10986.5	11038.9	11202.7	11458.6	11790.9	11862.4	11515.9	10360.1	8485.9	8255.4	6218.9
22.5°	11751.1	11749.6	11849.7	11999.1	12315.5	12499.9	12280.5	11264.7	9304.6	9064.5	6780.1
25°	13134.2	13081.7	13046.8	12929.1	12999.1	13113.5	12991.1	12110.4	10128.0	9884.8	7349.2
27.5°	14777.9	14809.7	14526.8	14210.4	13965.6	13848.0	13647.7	12894.1	10919.7	10652.7	7905.6
30°	16512.3	16521.9	16188.0	15784.2	15245.3	14798.6	14452.1	13642.9	11733.7	11442.7	8446.1
32.5°	18076.6	18014.6	17683.9	17133.9	16453.5	15951.2	15231.0	14479.1	12595.3	12313.9	9047.0
35°	19316.6	19243.4	18841.2	18340.5	17634.7	17129.1	16262.7	15313.7	13501.4	13226.4	9649.5
37.5°	20222.7	20136.9	19723.5	19208.5	18599.6	18305.5	17459.8	16221.4	14490.2	14194.5	10283.8
40°	20537.5	20462.8	20203.6	19826.9	19337.2	19270.5	18730.0	17265.8	15566.4	15251.7	11002.4
42.5°	20349.9	20276.8	20184.6	20057.4	19853.9	19917.5	19928.6	18456.5	16761.9	16451.9	11795.7
45°	19605.9	19540.7	19636.1	19822.1	20074.9	20389.6	21022.3	19736.3	18097.3	17766.6	12712.9
47.5°	18510.6	18462.9	18726.8	19191.0	19930.2	20798.2	22022.3	21081.2	19596.4	19289.5	13857.5
50°	16952.7	16944.7	17472.5	18319.8	19456.5	20995.3	23055.6	22610.5	21678.9	21356.2	15448.8
52.5°	14526.8	14542.7	15580.8	16936.8	18625.0	20861.8	23720.1	24575.3	24101.6	23766.2	16827.1
55°	12216.9	12312.3	13048.3	15003.7	17350.1	20365.8	23949.0	25492.6	25438.5	25120.6	17593.3
57.5°	9954.8	10128.0	10837.1	12663.6	15488.5	19222.8	23823.4	25890.0	26433.7	26190.5	18604.4
60°	7503.4	7582.9	8400.0	10107.4	13099.2	17137.1	22912.5	26106.2	27794.5	27626.0	20071.7
62.5°	4773.9	4972.6	5697.5	7344.5	10199.6	14240.6	21376.8	26103.0	29497.1	29589.3	21965.0
65°	2514.9	2747.0	3131.7	4551.3	7009.0	11005.6	19067.0	25858.2	31586.0	31714.7	23445.1
67.5°	1356.0	1422.8	1626.3	2362.3	4064.9	7455.7	15673.0	24650.1	32795.7	32965.8	23651.7
70°	992.0	1028.5	1104.8	1306.7	2046.0	4330.4	11436.4	21911.0	31236.2	31172.6	21014.4
72.5°	761.5	818.7	875.9	957.0	1176.4	2311.4	7120.3	17157.7	24923.5	24503.8	15707.9
75°	600.9	610.4	691.5	764.7	882.3	1316.3	3161.9	9992.9	15211.9	14218.4	8145.7
77.5°	480.1	486.5	534.1	597.7	709.0	864.8	979.3	3931.4	4856.6	4333.6	1767.8
80°	284.6	300.5	397.4	461.0	588.2	545.3	357.7	853.7	758.3	686.8	297.3
82.5°	159.0	171.7	224.1	364.0	410.1	260.7	178.0	230.5	178.0	173.3	84.3
85°	0.0	7.9	144.7	225.7	166.9	57.2	74.7	76.3	52.5	49.3	33.4
87.5°	0.0	0.0	44.5	42.9	6.4	9.5	17.5	25.4	20.7	20.7	17.5
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°	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7	3077.7
2.5°	3138.1	3052.2	2890.1	2731.1	2597.6	2487.9	2389.3	2349.6	2317.8	2313.0	2287.6
5°	3278.0	3104.7	2794.7	2540.4	2370.3	2249.4	2146.1	2082.5	2033.2	2014.2	1996.7
7.5°	3489.4	3227.1	2782.0	2489.5	2286.0	2082.5	1891.8	1685.1	1556.3	1507.0	1478.4
10°	3746.9	3389.3	2829.7	2475.2	2119.1	1689.9	1373.5	1111.2	1004.7	969.7	960.2
12.5°	4047.4	3591.2	2912.3	2386.2	1763.0	1200.2	947.5	858.4	834.6	823.5	823.5
15°	4392.4	3812.1	2971.2	2128.6	1303.6	907.7	820.3	779.0	753.5	739.2	740.8
17.5°	4745.3	4028.3	2942.6	1755.0	961.8	807.6	742.4	697.9	662.9	648.6	645.4
20°	5101.4	4228.6	2783.6	1306.7	813.9	732.9	659.7	610.4	575.5	561.2	558.0
22.5°	5470.2	4398.7	2503.8	958.6	731.3	650.2	578.7	529.4	496.0	483.3	476.9
25°	5829.5	4537.0	2112.7	775.8	653.4	572.3	503.9	457.8	427.6	414.9	413.3
27.5°	6164.9	4624.5	1659.7	685.2	585.0	502.3	440.3	399.0	373.6	364.0	362.5
30°	6466.9	4632.4	1227.3	618.4	524.6	441.9	384.7	348.1	325.9	316.4	313.2
32.5°	6772.2	4565.6	893.4	558.0	469.0	389.5	333.8	305.2	289.3	281.4	281.4
35°	7059.9	4411.4	696.3	505.5	414.9	338.6	294.1	273.4	263.9	255.9	255.9
37.5°	7341.3	4190.5	591.4	459.4	364.0	295.7	259.1	246.4	238.5	230.5	230.5
40°	7627.4	3912.3	537.3	416.5	322.7	262.3	230.5	219.4	211.4	205.1	203.5
42.5°	7978.8	3591.2	502.3	376.8	286.1	232.1	203.5	190.8	184.4	178.0	174.9
45°	8385.7	3314.5	473.7	337.0	255.9	206.7	176.5	163.7	154.2	146.3	144.7
47.5°	8972.3	3114.2	435.6	294.1	227.3	179.6	152.6	138.3	124.0	116.0	114.5
50°	9721.1	2948.9	386.3	255.9	198.7	152.6	127.2	109.7	97.0	89.0	89.0
52.5°	10093.1	2732.7	341.8	222.6	166.9	128.8	103.3	82.7	76.3	68.4	68.4
55°	10242.5	2567.4	297.3	189.2	138.3	106.5	81.1	63.6	58.8	54.1	52.5
57.5°	10662.2	2519.7	259.1	160.6	114.5	84.3	62.0	47.7	44.5	38.2	38.2
60°	11337.8	2543.5	224.1	136.7	92.2	65.2	46.1	36.6	33.4	27.0	27.0
62.5°	12067.5	2513.3	189.2	117.6	71.5	47.7	31.8	27.0	27.0	15.9	14.3
65°	12207.4	2238.3	162.2	97.0	55.6	35.0	20.7	17.5	23.8	3.2	0.0
67.5°	11329.9	1736.0	139.9	74.7	41.3	27.0	15.9	7.9	20.7	0.0	0.0
70°	9059.8	1103.3	112.9	54.1	31.8	22.3	12.7	3.2	15.9	0.0	0.0
72.5°	6406.5	640.7	89.0	38.2	27.0	17.5	9.5	0.0	9.5	0.0	0.0
75°	3239.8	341.8	55.6	28.6	20.7	12.7	6.4	0.0	1.6	0.0	0.0
77.5°	701.1	159.0	35.0	20.7	14.3	7.9	3.2	0.0	0.0	0.0	0.0
80°	152.6	69.9	22.3	12.7	7.9	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	55.6	36.6	11.1	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.2	19.1	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	6.4	1.6	1.6	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)