

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: P323617

Luminaire Tested: **GAN-SA3D-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20237 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

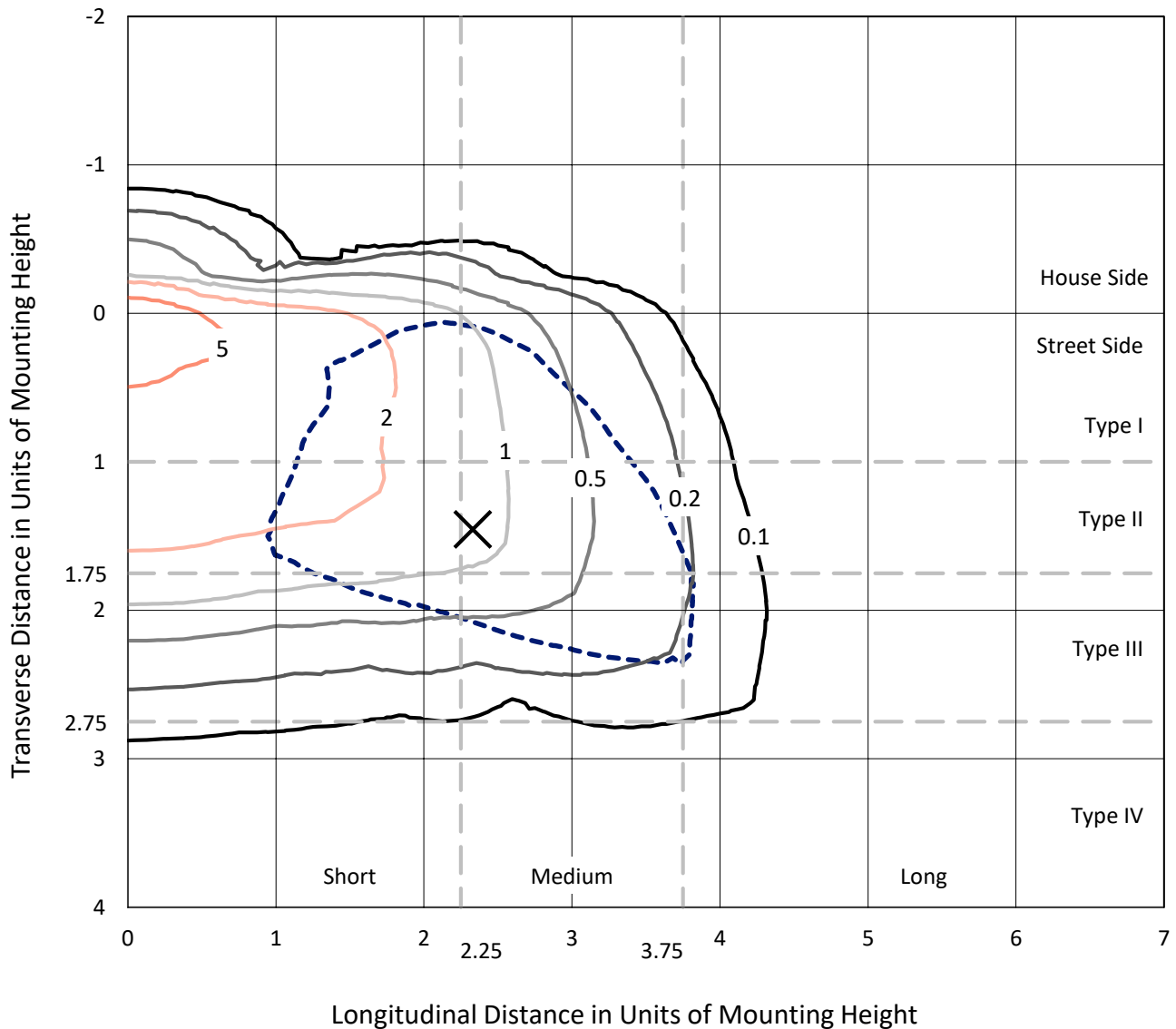
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

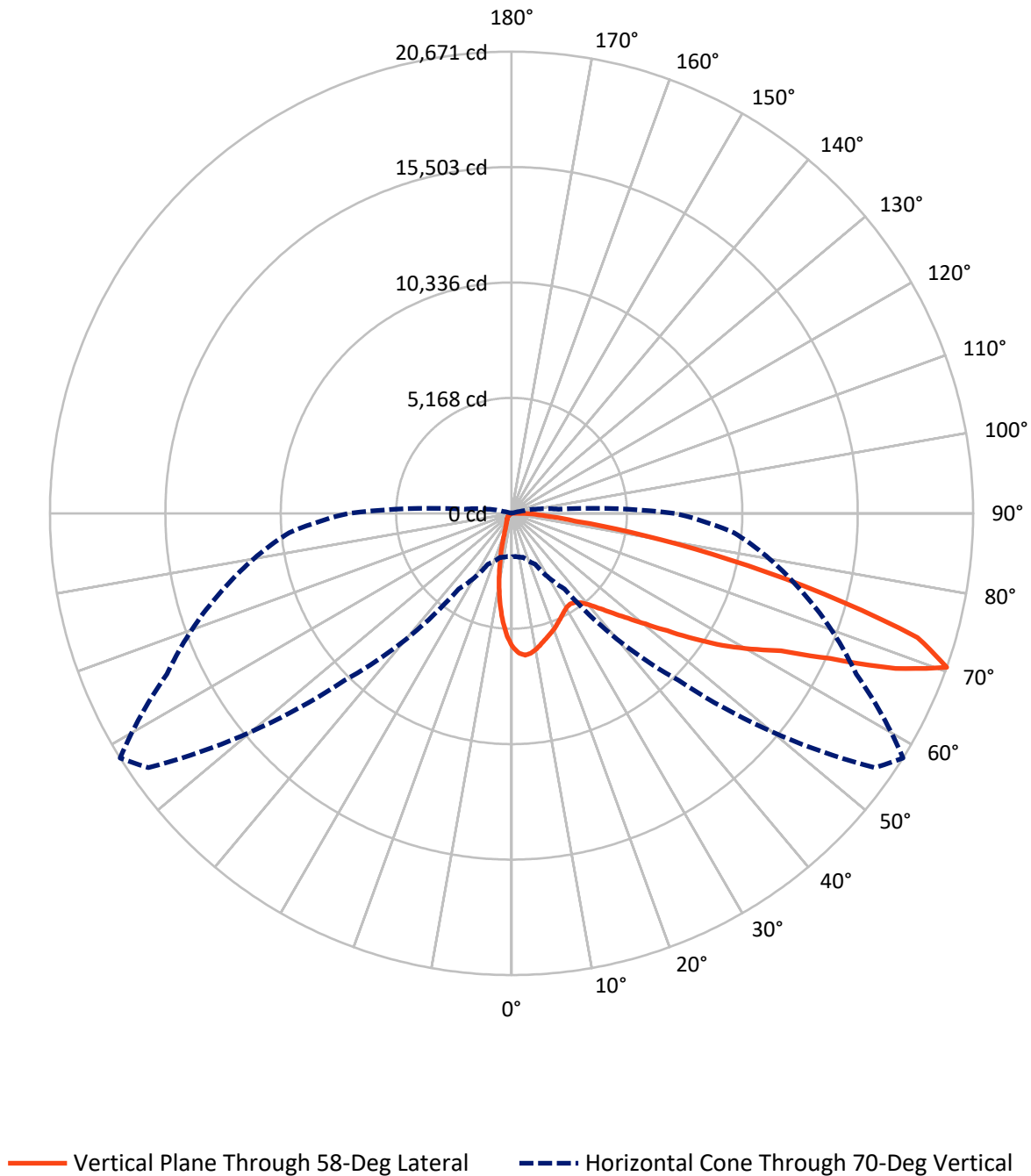
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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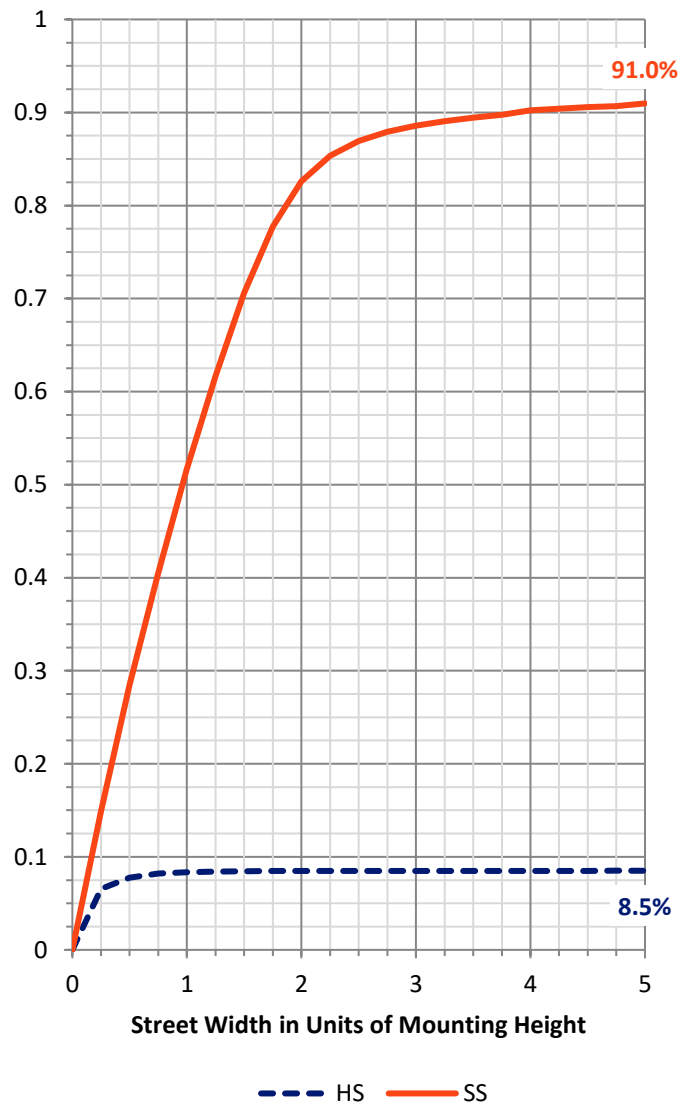
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1731.8	0.0	1731.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	18505.2	0.0	18505.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	20237.0	0.0	20237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	2.4
10°-20°	1026.0	5.1
20°-30°	1348.8	6.7
30°-40°	1786.3	8.8
40°-50°	2670.0	13.2
50°-60°	4277.2	21.1
60°-70°	5391.4	26.6
70°-80°	2908.1	14.4
80°-90°	340.4	1.7
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°	20237.0	100.0
0°-180°	20237.0	100.0

Coefficient of Utilization



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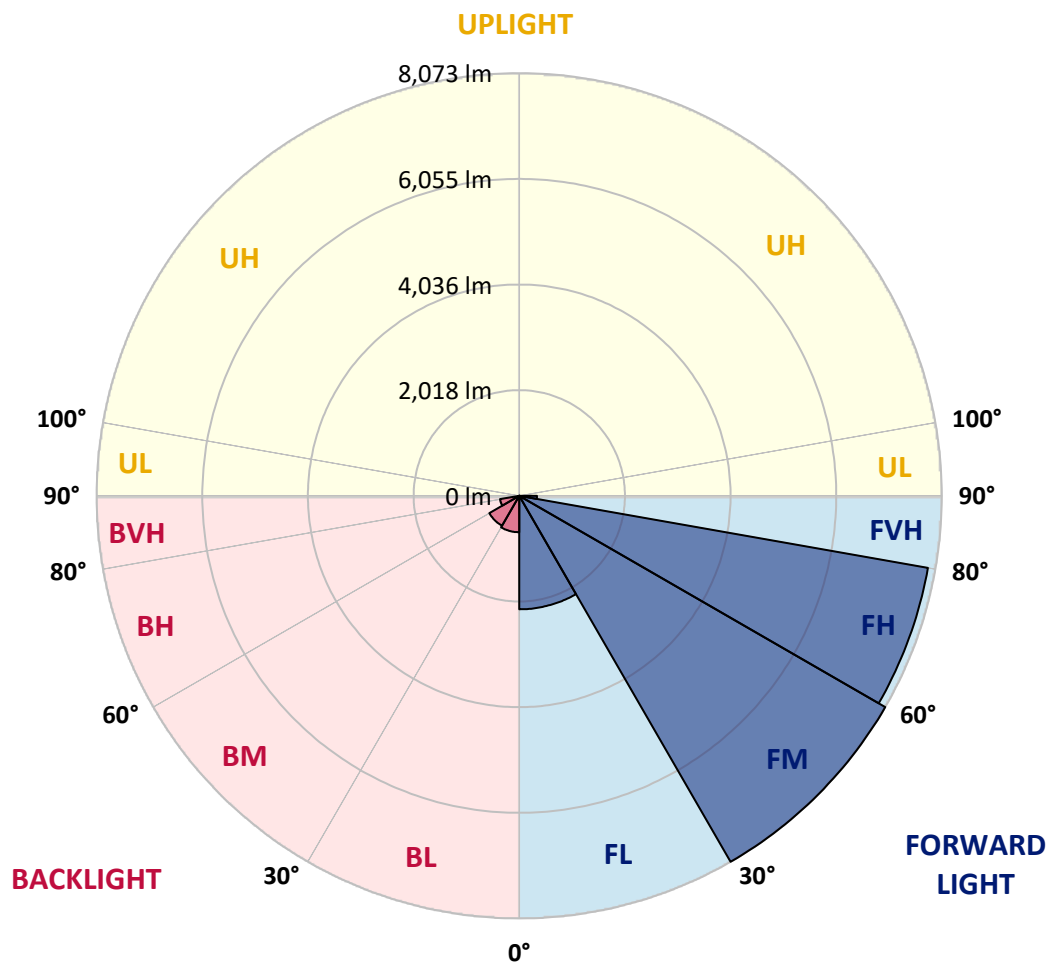
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2167.8	10.7			
FM	(30°-60°)	8072.8	39.9			
FH	(60°-80°)	7927.0	39.2			G4/12000
FVH	(80°-90°)	337.5	1.7			G3/500
BL	(0°-30°)	695.8	3.4	B2/1000		
BM	(30°-60°)	660.7	3.3	B1/1000		
BH	(60°-80°)	372.4	1.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9
2.5°	6473.5	6457.6	6451.7	6441.6	6402.9	6365.0	6290.1	6269.1	6221.9	6110.0	5991.4
5°	6478.6	6477.8	6495.4	6491.2	6477.8	6460.1	6406.2	6378.5	6298.5	6138.6	5921.5
7.5°	6166.4	6182.4	6221.9	6253.9	6290.9	6338.9	6345.6	6318.7	6253.1	6080.6	5792.8
10°	5747.3	5772.6	5828.1	5891.2	5988.0	6083.9	6169.8	6166.4	6143.7	5973.7	5638.0
12.5°	5327.4	5356.9	5420.9	5514.3	5651.4	5807.9	5961.1	5982.1	6020.0	5877.8	5494.9
15°	4959.7	4985.0	5048.1	5162.5	5332.5	5542.9	5767.5	5806.3	5903.9	5802.9	5375.4
17.5°	4647.5	4663.5	4709.8	4836.9	5033.8	5288.7	5580.7	5656.5	5802.0	5744.0	5271.9
20°	4429.6	4432.1	4462.4	4551.6	4748.5	5033.8	5387.2	5495.7	5694.3	5693.5	5165.0
22.5°	4321.9	4313.5	4319.3	4370.7	4515.4	4790.6	5193.6	5322.4	5597.6	5650.6	5056.5
25°	4301.7	4294.9	4278.1	4284.8	4372.4	4577.7	4998.4	5147.4	5512.6	5624.5	4962.2
27.5°	4364.8	4371.5	4342.9	4312.6	4319.3	4439.7	4825.1	4997.6	5443.6	5624.5	4895.8
30°	4491.9	4495.2	4474.2	4434.6	4381.6	4401.0	4704.7	4877.3	5409.1	5663.2	4853.7
32.5°	4632.4	4650.9	4648.4	4616.4	4540.7	4462.4	4676.1	4833.5	5406.5	5749.0	4849.5
35°	4806.6	4827.6	4862.9	4856.2	4777.1	4648.4	4773.7	4897.4	5456.2	5890.4	4894.9
37.5°	4991.7	5023.7	5099.4	5135.6	5084.3	4938.7	4992.5	5080.9	5589.1	6119.3	5010.2
40°	5170.9	5207.1	5345.1	5487.3	5448.6	5298.8	5324.1	5394.8	5825.6	6448.3	5229.0
42.5°	5346.8	5400.7	5603.5	5837.4	5883.7	5764.2	5777.6	5834.0	6176.5	6901.0	5586.6
45°	5557.2	5617.8	5918.2	6206.8	6330.5	6278.3	6335.5	6372.6	6635.1	7499.3	6068.8
47.5°	5866.0	5935.8	6304.4	6633.4	6850.5	6884.2	6999.5	7023.9	7214.9	8196.1	6697.4
50°	6468.5	6487.9	6821.1	7119.8	7432.8	7634.8	7766.1	7784.6	7916.7	8957.6	7482.5
52.5°	7226.7	7239.3	7427.8	7628.1	7984.0	8396.3	8703.5	8729.6	8757.3	9699.8	8257.5
55°	7979.8	7978.1	8102.7	8220.5	8627.8	9226.9	9893.3	9909.3	9709.9	10404.1	8849.9
57.5°	8450.2	8495.6	8685.0	8836.4	9405.3	10173.6	11098.4	11157.3	10710.4	10925.8	9435.6
60°	8300.4	8322.3	8742.2	9302.6	10373.8	11519.1	12317.7	12332.8	11462.7	11446.7	10176.1
62.5°	7071.8	7083.6	7743.4	8898.7	10864.4	13264.3	13788.6	13542.0	12327.8	12169.6	11062.2
65°	4847.0	4923.5	5474.7	6902.7	9963.2	14359.1	16065.6	15657.5	13646.4	13211.3	11863.3
67.5°	2854.3	2838.3	3111.0	4162.8	7317.6	13632.1	18946.0	18540.5	15444.6	13908.9	11628.5
70°	1949.7	1938.8	2043.1	2520.2	4130.9	10575.0	19852.3	20671.1	17032.5	13439.4	10007.8
72.5°	1391.8	1397.7	1551.7	1958.1	2593.5	6161.4	17072.1	19010.0	16535.2	11716.0	7607.0
75°	945.0	961.0	1181.4	1606.4	2273.7	3134.5	12114.9	14450.8	13464.6	8515.0	4372.4
77.5°	508.3	525.9	785.9	1294.2	2055.7	2177.8	7793.0	9945.5	8457.8	3827.9	1267.3
80°	212.1	222.2	367.7	940.8	1776.4	1912.7	4585.3	6030.9	3604.1	754.8	282.7
82.5°	91.7	96.8	153.2	561.3	1327.9	1614.8	2427.7	2901.4	1092.2	165.8	142.2
85°	17.7	18.5	63.1	297.0	847.4	911.3	1573.6	1542.4	490.6	71.5	103.5
87.5°	0.0	0.0	15.1	93.4	249.1	496.5	960.1	948.4	166.6	34.5	38.7
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°	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9	5977.9
2.5°	5930.8	5872.7	5750.7	5600.1	5484.8	5357.7	5256.8	5128.9	5073.3	5075.8	5045.5
5°	5797.8	5678.3	5408.2	5067.4	4804.9	4533.9	4300.8	4068.6	3931.4	3886.8	3844.7
7.5°	5607.7	5418.3	4987.5	4462.4	4018.1	3583.9	3206.1	2873.7	2663.3	2560.6	2522.8
10°	5393.1	5127.2	4503.6	3811.9	3177.4	2590.1	2100.3	1674.6	1504.6	1389.3	1359.8
12.5°	5204.6	4844.4	4030.7	3144.6	2391.5	1683.0	1215.9	950.9	835.6	790.2	782.6
15°	5027.0	4580.2	3575.5	2540.4	1656.0	1035.9	773.3	683.3	656.4	648.8	648.8
17.5°	4859.6	4328.6	3130.3	1945.5	1095.6	726.2	640.4	620.2	611.8	610.9	611.8
20°	4684.6	4077.0	2692.8	1425.5	764.9	615.1	591.6	580.6	578.1	578.1	578.1
22.5°	4517.1	3825.4	2267.0	1018.2	613.4	561.3	549.5	541.9	539.4	538.6	536.9
25°	4356.4	3586.4	1851.3	719.5	538.6	514.1	504.0	494.0	486.4	482.2	479.6
27.5°	4224.3	3373.5	1464.2	577.3	486.4	465.3	452.7	437.6	419.1	410.6	407.3
30°	4119.1	3179.1	1128.4	487.2	437.6	416.5	397.2	371.1	344.2	329.9	329.0
32.5°	4036.6	2988.1	856.6	430.8	393.8	367.7	340.0	307.1	276.0	260.0	259.2
35°	3996.2	2819.8	654.7	389.6	355.1	322.3	287.8	251.6	221.3	206.2	204.5
37.5°	4023.1	2677.6	510.8	355.1	322.3	284.4	244.0	206.2	179.2	165.8	164.9
40°	4121.6	2586.7	414.9	325.7	294.5	248.2	204.5	169.1	146.4	135.5	134.6
42.5°	4331.1	2553.1	354.3	301.3	267.6	214.6	170.0	139.7	118.6	111.1	109.4
45°	4681.2	2602.7	313.0	277.7	239.8	182.6	140.5	114.4	95.9	90.0	89.2
47.5°	5147.4	2733.1	283.6	255.0	214.6	154.0	117.0	92.6	78.3	72.4	71.5
50°	5748.2	2940.2	259.2	232.3	191.0	130.4	96.8	73.2	60.6	56.4	56.4
52.5°	6402.0	3186.7	237.3	211.2	167.5	108.6	78.3	56.4	48.0	42.9	42.9
55°	6942.3	3402.1	213.7	195.2	138.8	90.0	59.7	42.9	35.3	32.8	32.8
57.5°	7481.6	3631.9	186.8	167.5	111.1	73.2	45.4	32.0	26.1	24.4	24.4
60°	8180.9	3912.9	160.7	136.3	87.5	55.5	33.7	22.7	19.4	18.5	18.5
62.5°	8950.0	4077.8	137.2	109.4	68.2	41.2	24.4	15.1	14.3	14.3	13.5
65°	9420.4	3844.7	115.3	87.5	53.0	31.1	16.0	10.9	12.6	11.8	10.1
67.5°	8820.5	3010.0	94.2	68.2	41.2	23.6	10.1	7.6	13.5	10.9	8.4
70°	7303.3	2107.1	73.2	48.0	32.8	20.2	6.7	5.0	14.3	10.9	6.7
72.5°	5465.4	1410.3	58.1	32.0	24.4	17.7	5.9	2.5	12.6	9.3	5.9
75°	2986.4	568.0	46.3	20.2	15.1	12.6	4.2	1.7	8.4	6.7	4.2
77.5°	785.9	149.8	33.7	13.5	8.4	5.0	2.5	0.8	4.2	3.4	1.7
80°	200.3	58.1	21.9	9.3	5.9	2.5	0.0	0.0	0.8	0.0	0.0
82.5°	106.9	24.4	13.5	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.8	16.0	7.6	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	5.0	2.5	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)