

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: P323354

Luminaire Tested: **GAN-SA0A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30361 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

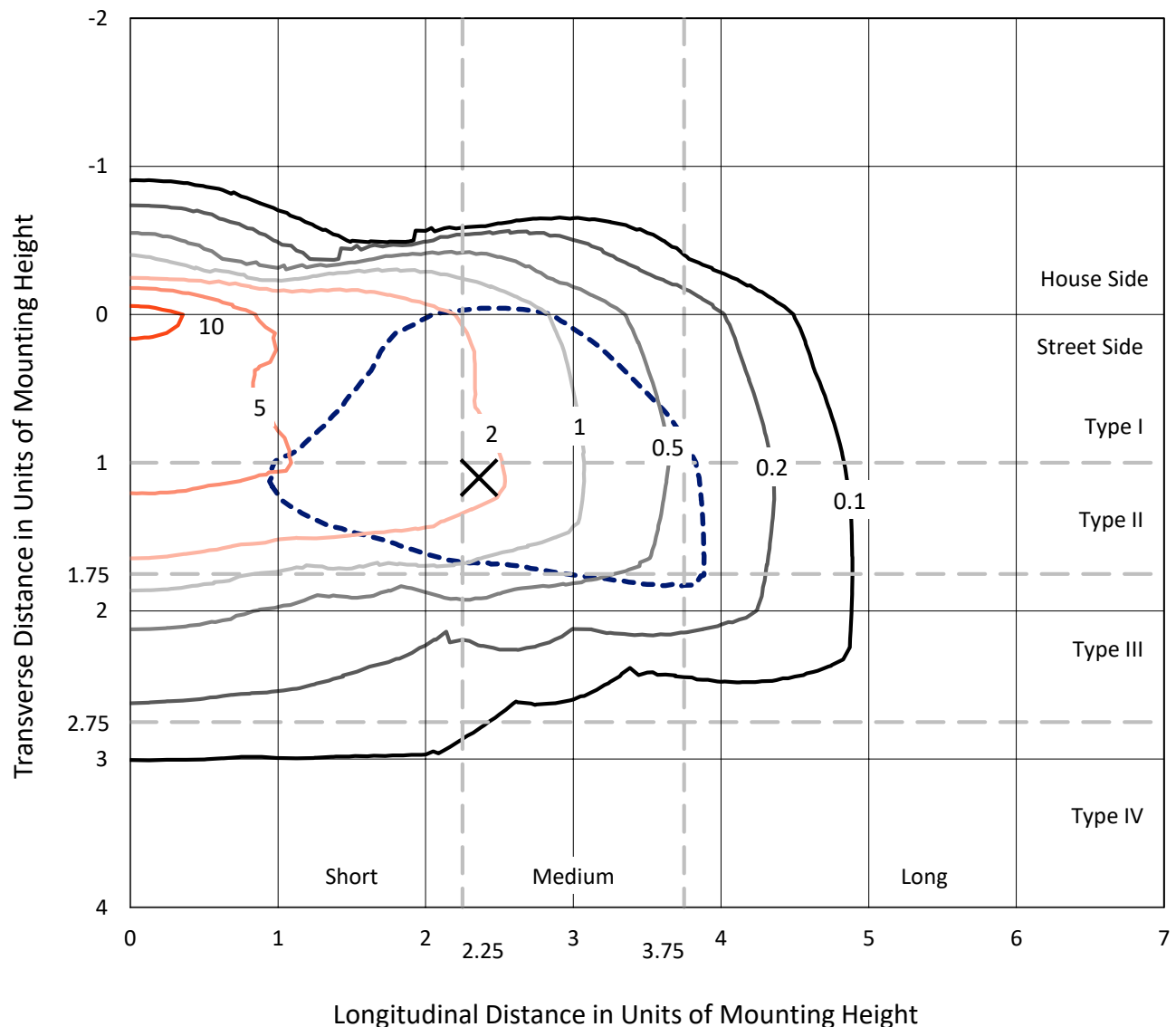
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

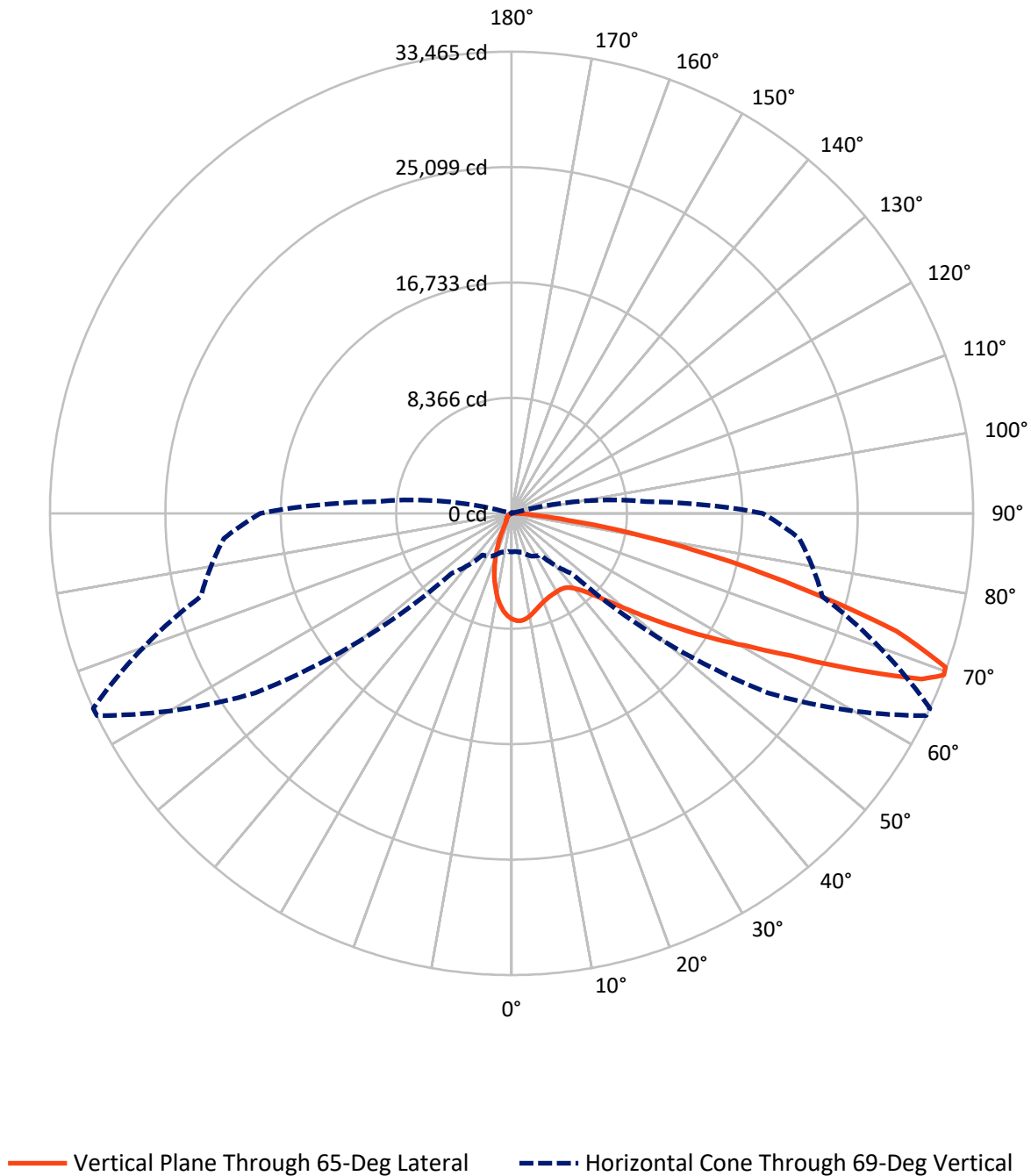
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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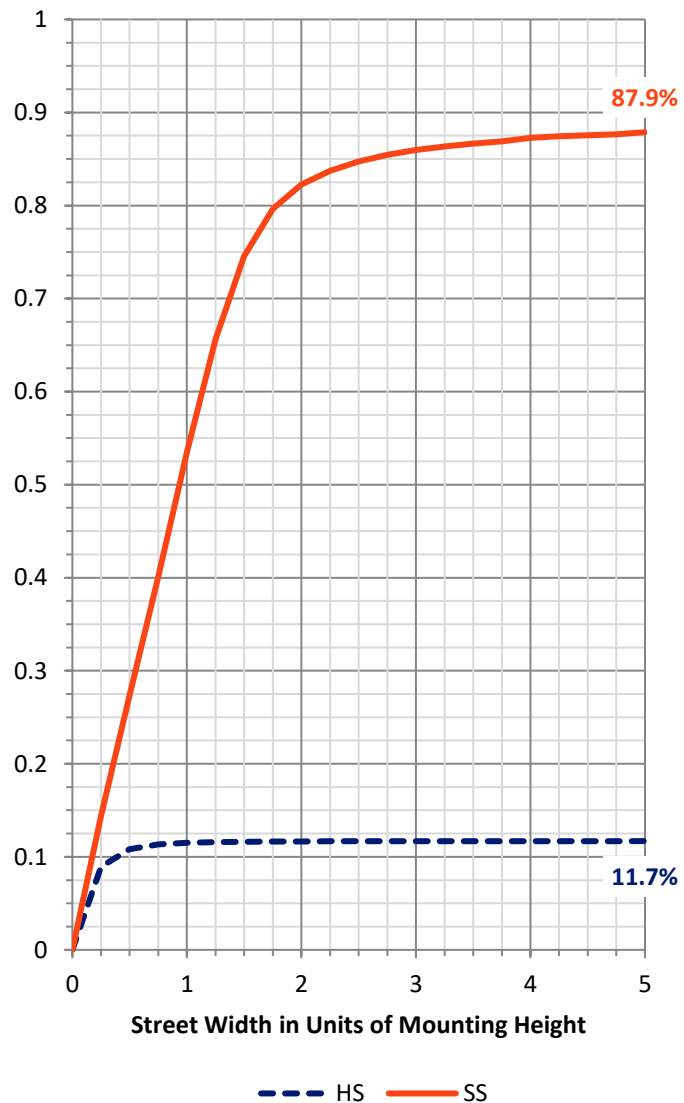
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3578.8	0.0	3578.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	26782.2	0.0	26782.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	30361.0	0.0	30361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.6	2.1
10°-20°	1404.4	4.6
20°-30°	1945.2	6.4
30°-40°	2712.2	8.9
40°-50°	4215.6	13.9
50°-60°	6767.7	22.3
60°-70°	7655.4	25.2
70°-80°	4496.1	14.8
80°-90°	523.0	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°	30361.0	100.0
0°-180°	30361.0	100.0

Coefficient of Utilization



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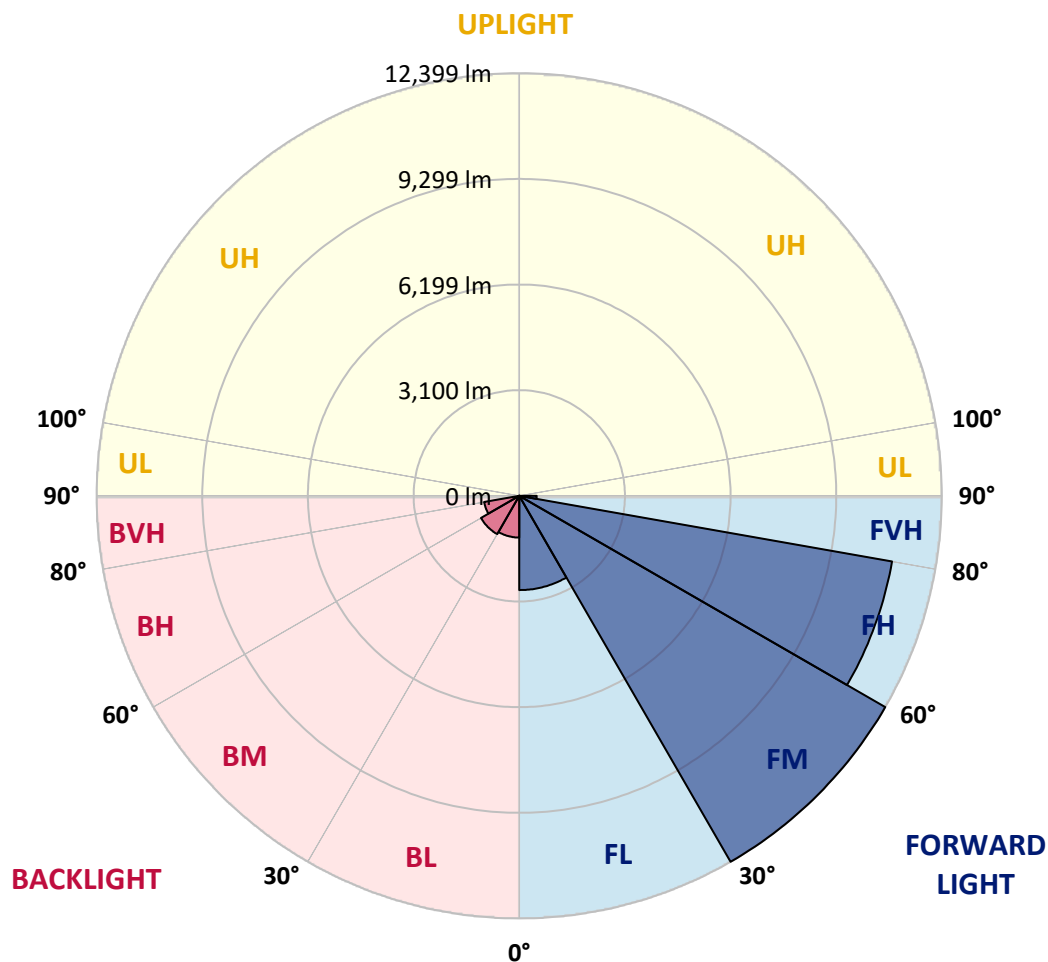
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2766.6	9.1			
FM	(30°-60°)	12398.6	40.8			
FH	(60°-80°)	11105.8	36.6			G4/12000
FVH	(80°-90°)	511.2	1.7			G4/750
BL	(0°-30°)	1224.5	4.0	B3/2500		
BM	(30°-60°)	1296.9	4.3	B2/2500		
BH	(60°-80°)	1045.7	3.4	B3/2500		G3/2500
BVH	(80°-90°)	11.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3
2.5°	7740.4	7721.1	7736.5	7769.9	7786.6	7786.6	7799.5	7784.0	7789.2	7751.9	7698.0
5°	7256.0	7226.5	7268.9	7362.7	7478.3	7577.2	7723.7	7800.7	7808.5	7809.7	7746.8
7.5°	6734.4	6707.5	6770.4	6880.9	7029.9	7213.6	7469.3	7692.8	7705.7	7826.4	7780.2
10°	6310.5	6291.2	6364.4	6482.6	6657.4	6862.9	7176.4	7487.3	7524.5	7791.8	7775.1
12.5°	5973.9	5958.5	6027.9	6164.0	6342.6	6570.0	6897.6	7258.6	7308.7	7713.4	7749.4
15°	5728.5	5725.9	5783.8	5914.8	6112.6	6324.6	6659.9	7046.6	7104.4	7628.6	7745.5
17.5°	5600.0	5603.9	5646.3	5758.1	5927.6	6138.3	6459.5	6868.1	6931.0	7552.8	7764.8
20°	5587.2	5591.1	5614.2	5677.1	5814.6	6000.9	6296.4	6717.7	6783.3	7496.3	7795.6
22.5°	5700.3	5697.7	5704.1	5697.7	5774.8	5916.1	6188.4	6602.1	6677.9	7459.0	7820.0
25°	5917.4	5913.5	5910.9	5863.4	5812.0	5887.8	6143.5	6536.6	6608.5	7432.0	7834.2
27.5°	6219.3	6216.7	6212.8	6134.5	5980.3	5932.8	6148.6	6512.2	6572.6	7410.2	7831.6
30°	6616.2	6634.2	6629.1	6519.9	6279.7	6070.2	6202.6	6499.3	6552.0	7367.8	7804.6
32.5°	7082.6	7118.6	7146.8	7029.9	6729.3	6342.6	6327.2	6513.5	6552.0	7335.7	7755.8
35°	7566.9	7613.2	7717.2	7676.1	7280.4	6752.4	6541.7	6598.3	6630.4	7353.7	7732.7
37.5°	8043.6	8098.8	8324.9	8444.4	8002.4	7294.6	6875.8	6807.7	6824.4	7462.9	7758.4
40°	8597.3	8680.8	9023.8	9216.5	8864.5	8020.4	7375.5	7167.4	7173.8	7703.1	7877.8
42.5°	9324.4	9410.5	9781.8	10083.7	9835.7	8937.7	8053.8	7717.2	7710.8	8152.8	8159.2
45°	10210.9	10300.8	10684.9	11020.2	10908.5	10024.6	8922.3	8520.2	8512.5	8861.9	8692.3
47.5°	11215.5	11304.1	11647.2	11992.8	12113.5	11293.9	10028.4	9616.0	9598.1	9847.3	9515.8
50°	12077.5	12135.4	12451.4	12916.5	13461.2	12853.5	11404.4	11007.4	10988.1	11156.4	10724.7
52.5°	12391.0	12424.4	12745.6	13396.9	14756.2	14965.6	13211.9	12700.6	12686.5	12759.7	12334.5
55°	11756.4	11816.7	12211.2	13177.3	15457.6	17352.6	15493.6	14797.3	14690.6	14532.6	14017.5
57.5°	10027.1	10123.5	10547.5	11832.2	15130.0	19246.2	18846.7	17168.8	17012.1	16046.0	15385.7
60°	7513.0	7631.2	7983.2	9369.4	13381.5	19920.7	22510.7	19811.5	19458.2	17251.1	16643.4
62.5°	5155.5	5214.6	5453.6	6356.7	9855.0	18815.8	25576.0	23350.9	22705.9	18561.5	18003.9
65°	3937.6	3958.2	4055.8	4366.7	5868.5	15284.2	26795.2	28020.8	27241.0	20128.8	19415.8
67.5°	3173.2	3156.5	3291.4	3735.9	3929.9	9324.4	25373.0	32438.9	32074.0	22224.2	20836.7
69°	2798.1	2775.0	2912.4	3428.9	3691.0	6164.0	22682.8	33442.2	33465.4	23330.3	20934.3
70°	2518.0	2533.4	2669.6	3246.5	3610.0	4838.2	20113.4	33186.6	33369.0	23744.0	20348.5
72.5°	1681.7	1722.8	1996.4	2695.3	3471.3	3661.4	12144.3	28478.1	29179.6	22812.6	17457.9
75°	948.1	978.9	1304.0	2032.4	3270.9	3486.7	6414.5	20980.6	21658.9	19076.6	13462.5
77.5°	465.1	481.8	737.4	1311.7	2735.1	3322.3	3638.3	14251.3	15025.9	12451.4	7614.5
80°	196.6	205.6	368.7	809.4	1955.3	3170.7	2701.7	8770.7	8867.1	4878.0	2028.6
82.5°	75.8	78.4	155.4	504.9	1242.3	2471.8	2259.8	4158.6	4058.4	918.6	462.5
85°	9.0	10.3	56.5	303.2	691.2	1271.9	1835.8	1792.2	1658.6	182.4	237.7
87.5°	0.0	0.0	3.9	92.5	205.6	596.1	954.5	743.8	670.6	59.1	123.3
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°	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3	7672.3
2.5°	7653.0	7640.2	7570.8	7470.6	7375.5	7257.3	7144.3	7076.2	7022.2	6986.2	7028.6
5°	7673.6	7617.0	7406.3	7136.6	6871.9	6573.9	6296.4	6061.3	5968.8	5866.0	5912.2
7.5°	7667.1	7560.5	7181.5	6701.0	6215.4	5713.1	5237.8	4871.6	4681.5	4495.2	4542.7
10°	7635.0	7455.2	6880.9	6169.2	5442.0	4720.0	4045.5	3532.9	3246.5	2986.9	3024.2
12.5°	7564.4	7313.8	6526.3	5560.2	4587.7	3635.7	2845.6	2189.1	1837.1	1681.7	1701.0
15°	7522.0	7176.4	6151.2	4943.6	3675.6	2532.2	1739.5	1293.7	1133.1	1081.7	1088.1
17.5°	7501.4	7044.1	5763.2	4238.3	2742.9	1612.3	1124.1	991.8	957.1	948.1	950.7
20°	7480.9	6910.4	5363.7	3540.7	1889.8	1084.3	923.7	885.2	872.3	860.8	863.3
22.5°	7446.2	6782.0	4934.6	2834.1	1274.4	880.0	832.5	795.2	768.3	754.1	756.7
25°	7403.8	6647.1	4496.5	2110.8	930.1	785.0	740.0	687.3	655.2	629.5	630.8
27.5°	7335.7	6481.4	4044.3	1536.5	781.1	702.7	642.4	584.5	530.6	501.0	501.0
30°	7240.6	6293.8	3541.9	1099.7	700.2	621.8	548.6	476.6	418.8	391.8	389.3
32.5°	7135.3	6098.5	3034.5	833.8	635.9	546.0	462.5	386.7	335.3	313.5	312.2
35°	7045.3	5887.8	2528.3	698.9	571.7	472.8	381.6	317.3	276.2	258.2	256.9
37.5°	6987.5	5677.1	2035.0	624.4	513.9	404.7	319.9	262.1	232.5	218.4	217.1
40°	6978.5	5520.4	1584.0	567.8	459.9	344.3	267.2	222.3	195.3	179.9	178.6
42.5°	7095.4	5430.5	1215.3	520.3	404.7	291.6	227.4	190.1	161.9	146.5	145.2
45°	7402.5	5458.7	935.3	477.9	349.4	246.7	192.7	158.0	132.3	120.8	118.2
47.5°	7962.6	5654.0	743.8	435.5	296.8	209.4	164.4	131.0	109.2	97.6	96.4
50°	8959.6	6112.6	621.8	389.3	247.9	178.6	136.2	106.6	88.6	78.4	77.1
52.5°	10282.8	6929.7	555.0	344.3	205.6	151.6	111.8	84.8	69.4	61.7	60.4
55°	11742.2	7918.9	511.3	295.5	168.3	125.9	88.6	66.8	54.0	47.5	45.0
57.5°	13167.0	8775.8	470.2	247.9	140.0	102.8	70.7	52.7	42.4	36.0	34.7
60°	14476.1	9563.4	422.7	199.1	114.3	80.9	55.2	41.1	33.4	27.0	27.0
62.5°	15877.7	10172.3	357.1	155.4	93.8	61.7	45.0	37.3	27.0	23.1	21.8
65°	17362.8	10624.5	280.1	120.8	73.2	46.2	37.3	38.5	21.8	16.7	15.4
67.5°	18460.0	10534.6	206.8	95.1	56.5	36.0	36.0	41.1	19.3	12.8	11.6
69°	18218.4	9803.6	173.4	82.2	48.8	30.8	33.4	41.1	18.0	11.6	10.3
70°	17518.3	8994.2	152.9	73.2	43.7	28.3	32.1	39.8	16.7	11.6	10.3
72.5°	14589.1	6774.3	119.5	55.2	34.7	23.1	27.0	34.7	16.7	11.6	9.0
75°	10974.0	4335.9	91.2	39.8	25.7	18.0	20.6	25.7	16.7	10.3	9.0
77.5°	5971.3	1563.5	65.5	27.0	18.0	14.1	14.1	19.3	15.4	7.7	5.1
80°	1535.2	393.1	41.1	18.0	14.1	10.3	9.0	12.8	9.0	1.3	0.0
82.5°	379.0	88.6	21.8	12.8	10.3	3.9	3.9	6.4	3.9	0.0	0.0
85°	208.1	43.7	14.1	9.0	5.1	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	106.6	12.8	3.9	2.6	1.3	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)