

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: P324894

Luminaire Tested: **GAN-SA0C-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57309 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

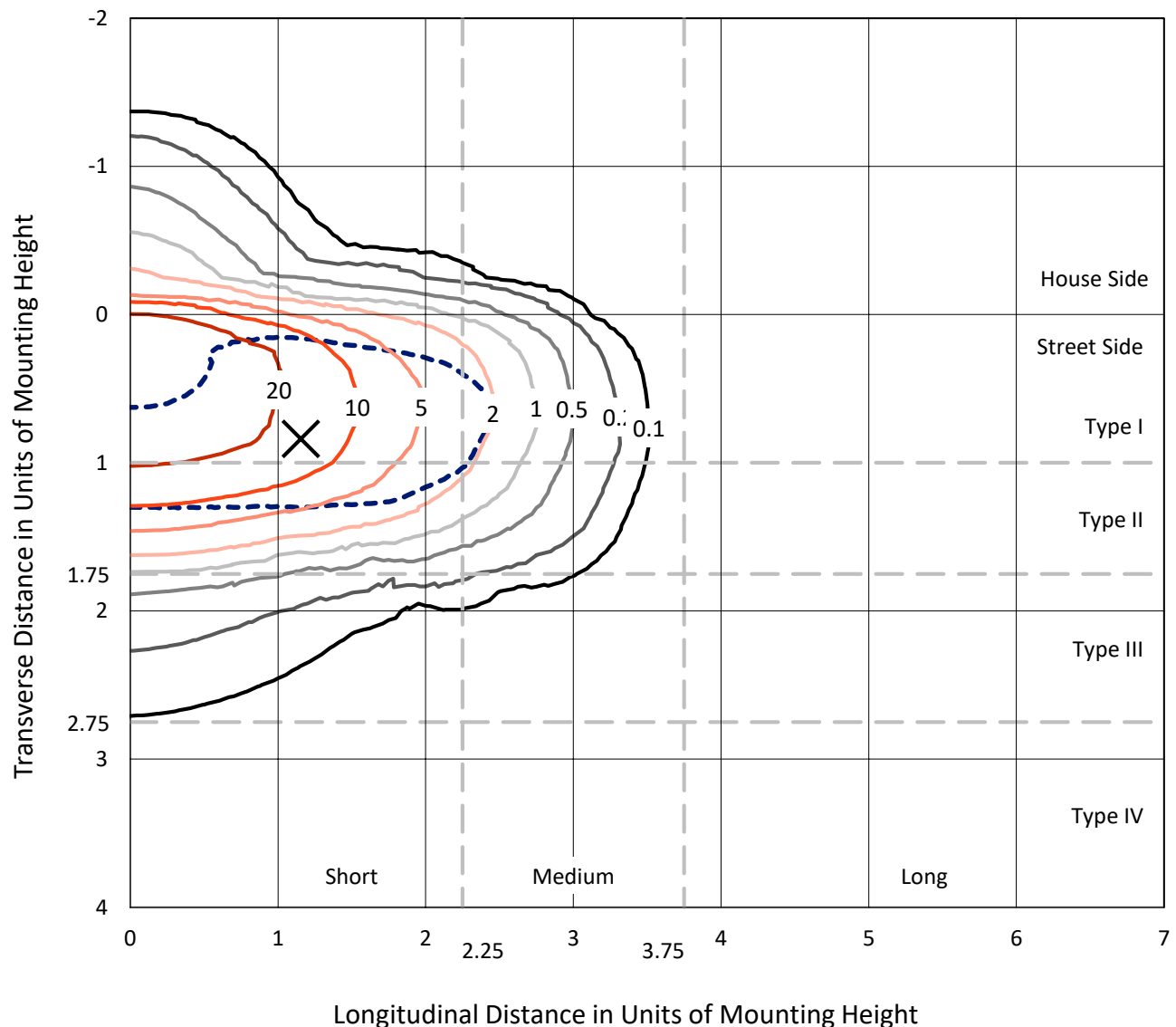
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

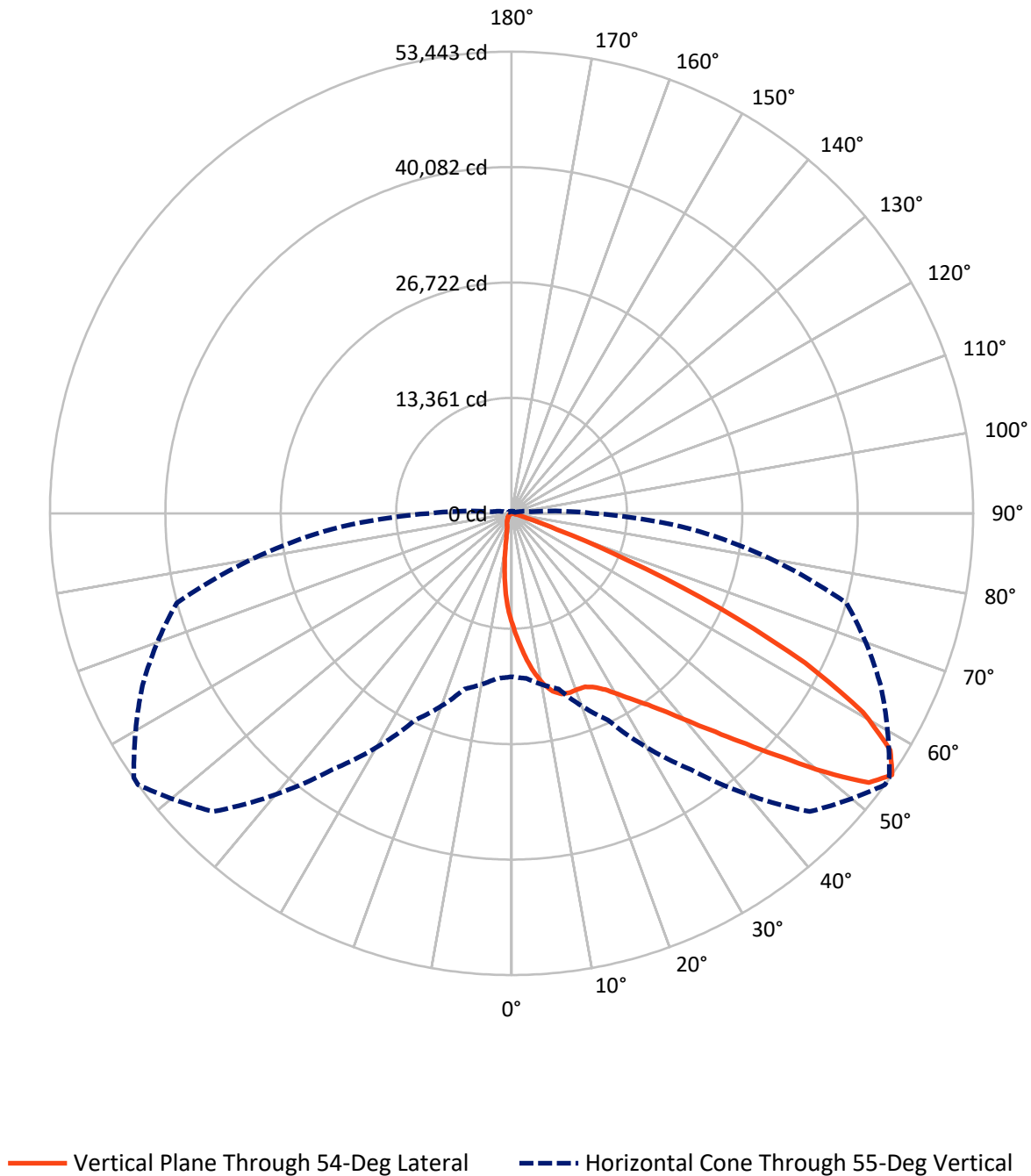
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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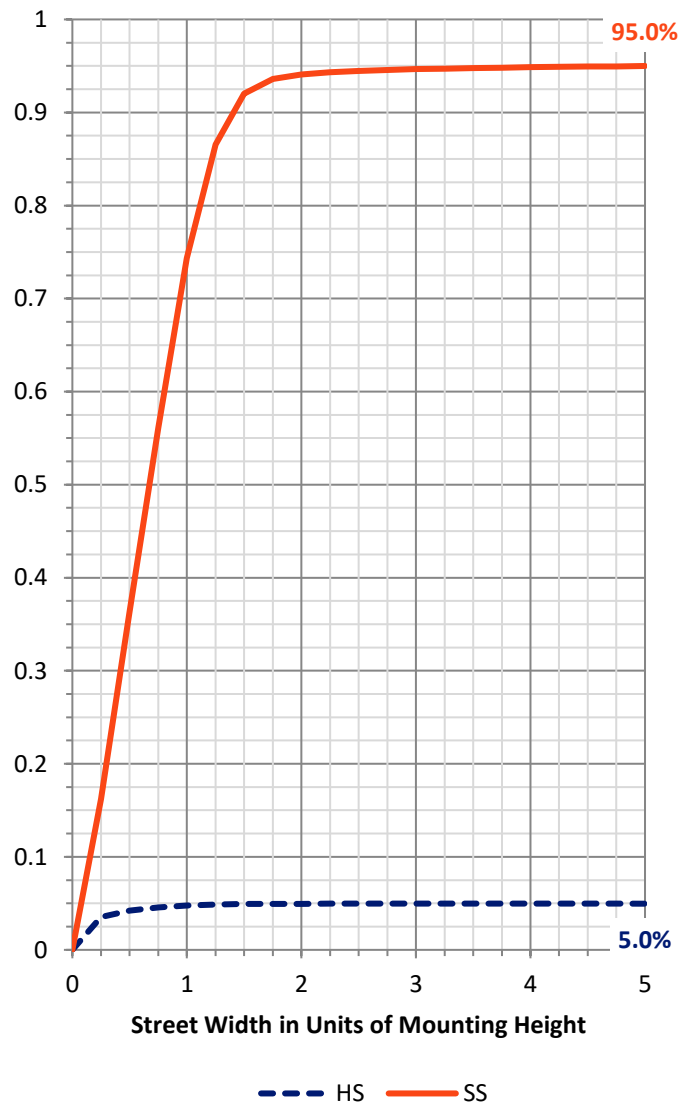
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2859.3	0.0	2859.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	54449.7	0.0	54449.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	57309.0	0.0	57309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.9	2.1
10°-20°	3241.6	5.7
20°-30°	5534.4	9.7
30°-40°	8881.7	15.5
40°-50°	14193.1	24.8
50°-60°	15208.2	26.5
60°-70°	7808.4	13.6
70°-80°	1182.8	2.1
80°-90°	77.0	0.1
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°	57309.0	100.0
0°-180°	57309.0	100.0

Coefficient of Utilization



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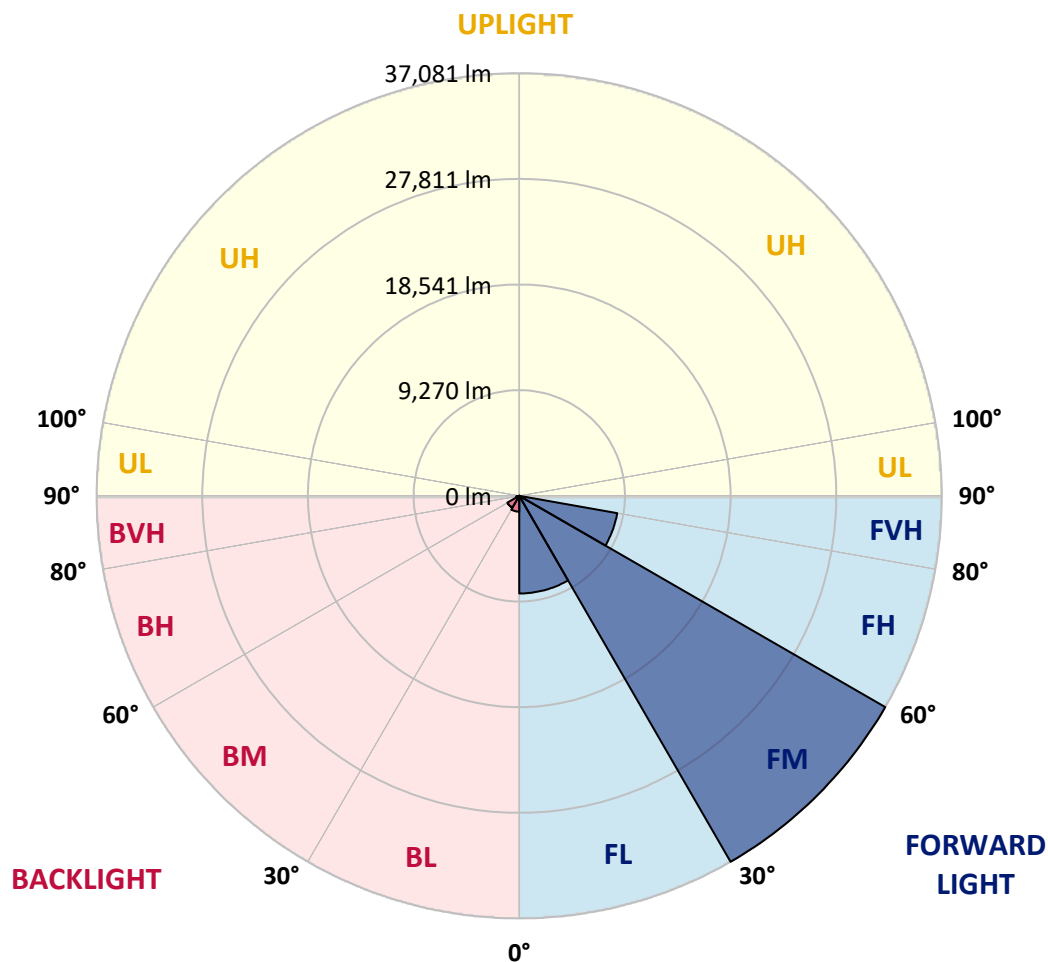
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8566.7	14.9			
FM	(30°-60°)	37081.5	64.7			
FH	(60°-80°)	8727.6	15.2			G4/12000
FVH	(80°-90°)	73.9	0.1			G1/100
BL	(0°-30°)	1391.2	2.4	B3/2500		
BM	(30°-60°)	1201.5	2.1	B2/2500		
BH	(60°-80°)	263.5	0.5	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9
2.5°	16106.8	15866.7	15874.1	15765.2	15366.8	15054.9	14730.7	14654.0	14149.1	13619.5	13109.6
5°	18891.0	18715.3	18673.2	18462.9	17908.5	17321.9	16693.3	16547.3	15559.8	14475.8	13409.1
7.5°	20321.5	20324.0	20289.4	20212.6	19866.2	19296.9	18529.7	18376.3	17032.4	15406.4	13720.9
10°	19905.8	19999.8	20192.8	20447.8	20712.6	20640.8	20064.1	19925.6	18465.4	16391.4	14067.4
12.5°	18935.6	18948.0	19163.3	19581.5	20343.8	21125.9	21135.8	21088.8	19834.0	17420.9	14448.6
15°	18453.0	18500.0	18579.2	18849.0	19571.6	20823.9	21719.9	21786.7	21088.8	18514.8	14854.4
17.5°	18769.8	18836.6	18769.8	18801.9	19220.2	20346.3	21821.3	21992.1	22185.1	19596.4	15238.1
20°	19628.6	19690.4	19571.6	19440.5	19522.1	20207.7	21749.6	21979.7	23043.9	20556.7	15559.8
22.5°	20786.8	20811.6	20630.9	20415.6	20356.2	20677.9	21809.0	22046.6	23732.0	21425.4	15762.7
25°	22061.4	22083.7	21858.5	21611.0	21469.9	21601.1	22296.5	22474.7	24338.3	22254.4	15879.1
27.5°	23449.8	23469.6	23187.5	22883.1	22719.7	22724.7	23100.9	23291.4	24984.3	23199.9	15973.1
30°	24917.5	24907.6	24647.7	24224.5	24016.6	24011.6	24259.1	24452.2	25919.8	24412.6	16101.8
32.5°	26565.8	26546.0	26177.2	25652.5	25417.4	25452.0	25672.3	25783.7	27080.5	25704.5	16332.0
35°	28736.3	28679.3	28122.5	27471.6	27038.5	27026.1	27211.7	27300.8	28560.5	27268.6	16715.6
37.5°	31552.7	31500.7	30745.9	29800.5	29191.6	28963.9	29184.2	29298.1	30671.6	29275.8	17331.8
40°	34329.6	34277.6	33829.6	32963.4	32025.4	31478.5	31651.7	31773.0	33307.4	31711.1	18109.0
42.5°	36245.1	36289.7	36445.6	36517.4	35638.8	34490.4	34569.6	34695.9	36076.9	34314.7	18997.5
45°	36750.0	36846.6	37727.6	39457.6	39786.8	38890.8	38061.7	38131.0	38890.8	36918.3	19886.0
47.5°	35232.9	35411.1	37111.4	40328.8	43115.5	43749.1	42180.0	42088.4	41591.0	39024.5	20517.1
50°	31785.4	31948.7	34151.4	38910.6	44125.3	48387.1	47115.0	46845.2	43959.5	40284.2	20739.8
52.5°	26795.9	26993.9	28783.3	34445.9	42222.1	50456.1	51787.6	51562.4	45696.9	40383.2	20776.9
55°	18923.2	19163.3	21056.6	26399.9	36190.7	48810.3	53443.3	53376.5	47139.7	40120.9	20856.1
57.5°	10634.7	10808.0	12849.8	16923.5	26506.4	42514.1	51713.4	52156.4	48010.9	39665.5	20974.9
60°	4722.1	4769.2	5826.0	8424.6	15517.7	32490.7	46761.1	47508.5	47263.5	39056.7	21175.4
62.5°	2618.5	2578.9	2578.9	3502.0	6744.1	20113.6	38131.0	39366.0	44073.3	38336.5	21185.3
65°	2051.7	2014.6	1908.2	1923.0	2569.0	8927.0	26404.9	28600.1	38014.7	36225.3	20472.5
67.5°	1739.9	1707.7	1601.3	1559.2	1596.3	2945.2	14508.0	16787.4	28845.1	30738.5	17732.8
70°	1470.1	1447.8	1393.4	1341.4	1247.4	1455.3	5551.2	7100.5	17774.8	20447.8	12104.8
72.5°	1183.0	1173.1	1192.9	1148.4	1034.5	970.2	1898.3	2299.2	7984.1	9125.0	4987.0
75°	1019.7	1014.7	1024.6	980.1	851.4	675.7	965.2	1054.3	2252.2	2232.4	1009.8
77.5°	663.3	670.7	848.9	829.1	732.6	450.4	499.9	539.5	683.1	512.3	306.9
80°	423.2	418.3	430.6	688.0	658.3	344.0	250.0	262.3	329.2	252.4	148.5
82.5°	257.4	252.4	282.1	321.7	331.6	240.1	153.4	155.9	205.4	163.3	79.2
85°	22.3	29.7	170.8	158.4	113.8	74.2	74.2	79.2	108.9	96.5	44.5
87.5°	0.0	0.0	29.7	44.5	24.7	27.2	27.2	29.7	42.1	42.1	22.3
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°	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9	12834.9
2.5°	12844.8	12587.4	12067.7	11567.8	11144.5	10736.2	10270.9	9810.6	9595.3	9508.6	9419.5
5°	12867.1	12337.5	11265.8	10186.8	9068.1	8060.8	7202.0	6320.9	5880.4	5687.4	5598.3
7.5°	12896.8	12090.0	10357.5	8545.9	6744.1	5378.0	4185.1	3417.9	3086.2	3034.2	2905.6
10°	12901.7	11790.5	9303.2	6734.2	4521.7	3242.1	2494.7	2098.7	1952.7	1928.0	1885.9
12.5°	12911.6	11436.6	8132.6	4987.0	3014.4	2168.0	1804.2	1673.0	1633.4	1631.0	1631.0
15°	12941.3	11065.4	6917.4	3593.6	2165.6	1717.6	1583.9	1532.0	1517.1	1524.5	1522.1
17.5°	12941.3	10627.3	5724.5	2677.9	1749.8	1544.3	1470.1	1435.5	1430.5	1437.9	1440.4
20°	12847.3	10095.2	4630.6	2083.9	1551.8	1433.0	1366.2	1334.0	1321.6	1326.6	1329.0
22.5°	12622.1	9441.8	3739.6	1725.0	1420.6	1331.5	1259.7	1210.2	1190.4	1192.9	1192.9
25°	12270.6	8667.2	2925.4	1492.4	1314.2	1222.6	1138.5	1081.5	1069.2	1066.7	1071.6
27.5°	11820.2	7810.8	2328.9	1314.2	1188.0	1101.3	1017.2	970.2	960.3	962.7	965.2
30°	11377.2	6922.3	1836.4	1163.2	1046.9	965.2	900.9	878.6	878.6	886.0	888.5
32.5°	10971.3	6068.5	1452.8	1032.0	920.7	846.4	809.3	806.8	819.2	824.1	826.6
35°	10622.3	5279.0	1202.8	930.6	821.7	757.3	744.9	754.8	769.7	779.6	782.1
37.5°	10374.8	4573.6	1051.8	846.4	744.9	693.0	690.5	710.3	730.1	752.4	757.3
40°	10270.9	3977.2	947.9	772.2	683.1	643.5	636.1	663.3	700.4	732.6	737.5
42.5°	10184.3	3489.6	858.8	700.4	633.6	576.7	574.2	608.8	653.4	685.6	693.0
45°	10110.0	3098.6	777.1	623.7	569.2	495.0	502.4	547.0	581.6	616.3	623.7
47.5°	9956.6	2776.9	688.0	542.0	470.2	423.2	438.1	477.7	504.9	556.9	564.3
50°	9681.9	2514.5	596.5	443.0	383.6	366.3	388.6	415.8	450.4	495.0	499.9
52.5°	9496.3	2316.5	517.3	371.2	316.8	321.7	344.0	353.9	373.7	391.0	386.1
55°	9389.8	2207.6	452.9	321.7	269.8	284.6	289.6	277.2	267.3	250.0	242.5
57.5°	9377.5	2108.6	403.4	279.7	237.6	245.0	227.7	185.6	151.0	131.2	126.2
60°	9357.7	1987.4	363.8	235.1	210.4	200.5	163.3	101.5	71.8	66.8	66.8
62.5°	9142.3	1799.3	334.1	198.0	178.2	151.0	94.0	47.0	39.6	42.1	42.1
65°	8456.8	1536.9	304.4	160.9	141.1	108.9	47.0	27.2	14.8	17.3	17.3
67.5°	7189.6	1225.1	272.2	123.7	106.4	69.3	27.2	12.4	0.0	0.0	0.0
70°	4813.7	759.8	230.2	86.6	69.3	42.1	19.8	2.5	0.0	0.0	0.0
72.5°	1846.3	410.8	185.6	52.0	44.5	29.7	12.4	0.0	0.0	0.0	0.0
75°	415.8	269.8	128.7	37.1	32.2	19.8	4.9	0.0	0.0	0.0	0.0
77.5°	158.4	195.5	74.2	24.7	22.3	12.4	0.0	0.0	0.0	0.0	0.0
80°	76.7	116.3	34.6	14.8	12.4	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	39.6	44.5	14.8	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.3	22.3	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	7.4	2.5	2.5	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)