

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: P381182

Luminaire Tested: **USSL-PA2A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11372 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 112
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: 28.75 FT

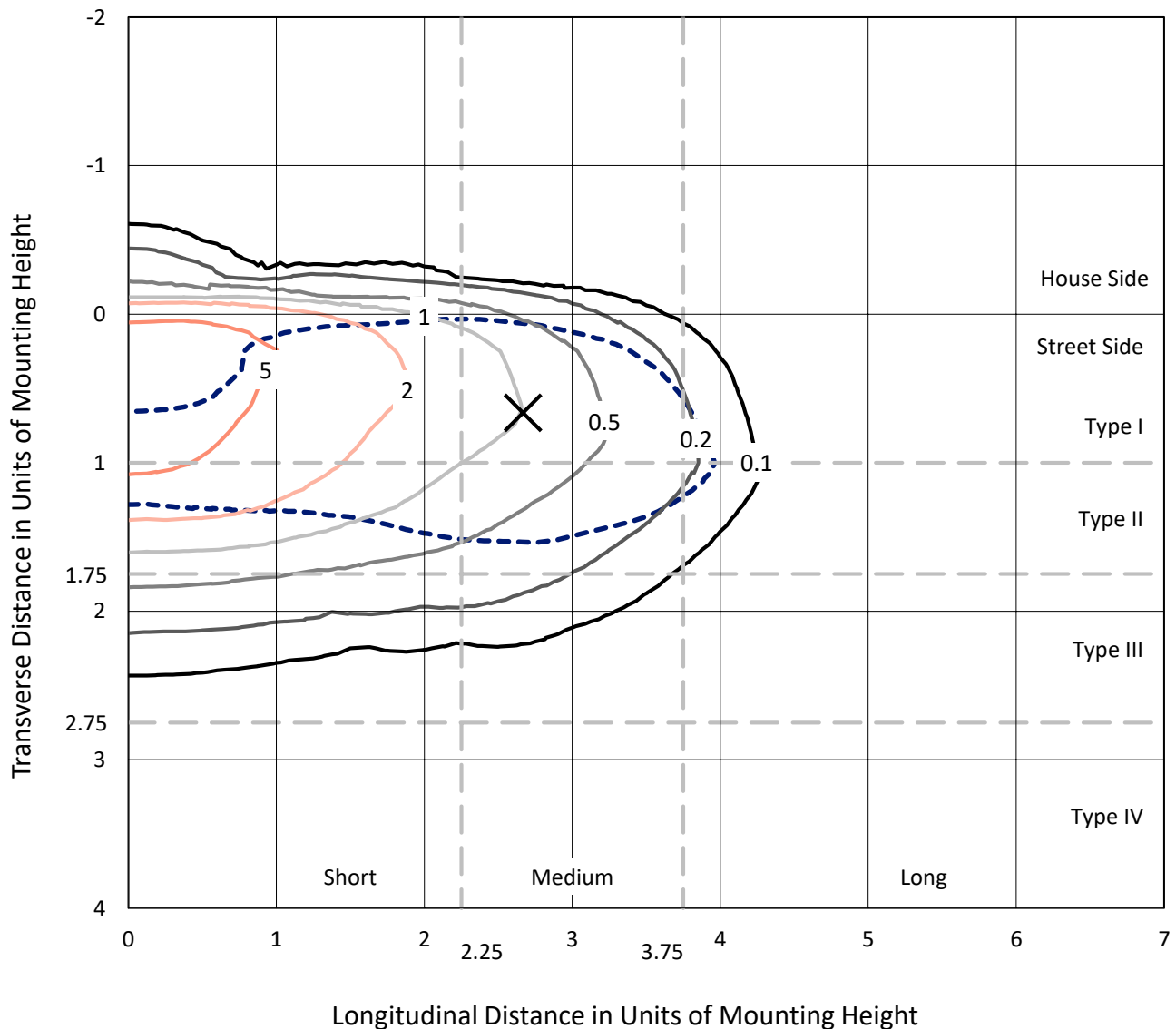


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

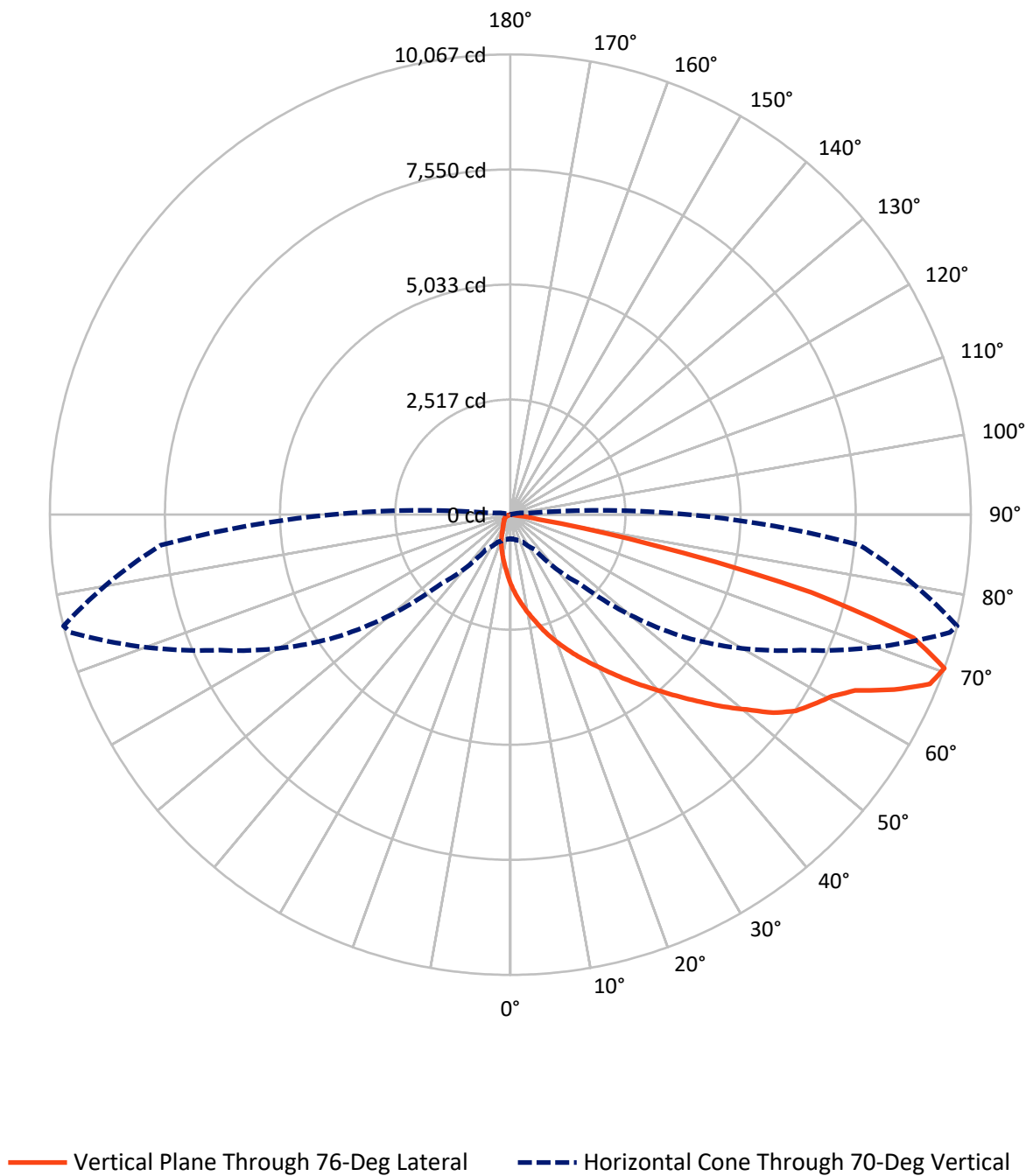


Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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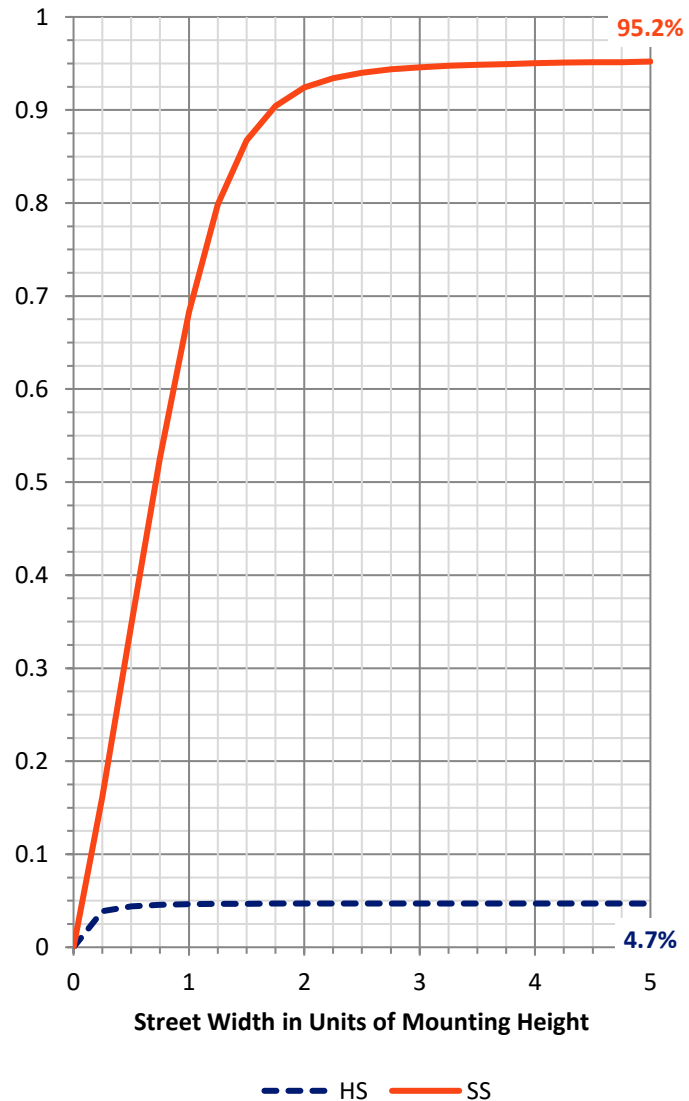
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.3	0.0	536.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10835.7	0.0	10835.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	11372.0	0.0	11372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	1.3
10°-20°	462.8	4.1
20°-30°	862.0	7.6
30°-40°	1524.6	13.4
40°-50°	2331.5	20.5
50°-60°	2643.4	23.2
60°-70°	2266.0	19.9
70°-80°	1097.5	9.7
80°-90°	40.7	0.4
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°	11372.0	100.0
0°-180°	11372.0	100.0

Coefficient of Utilization



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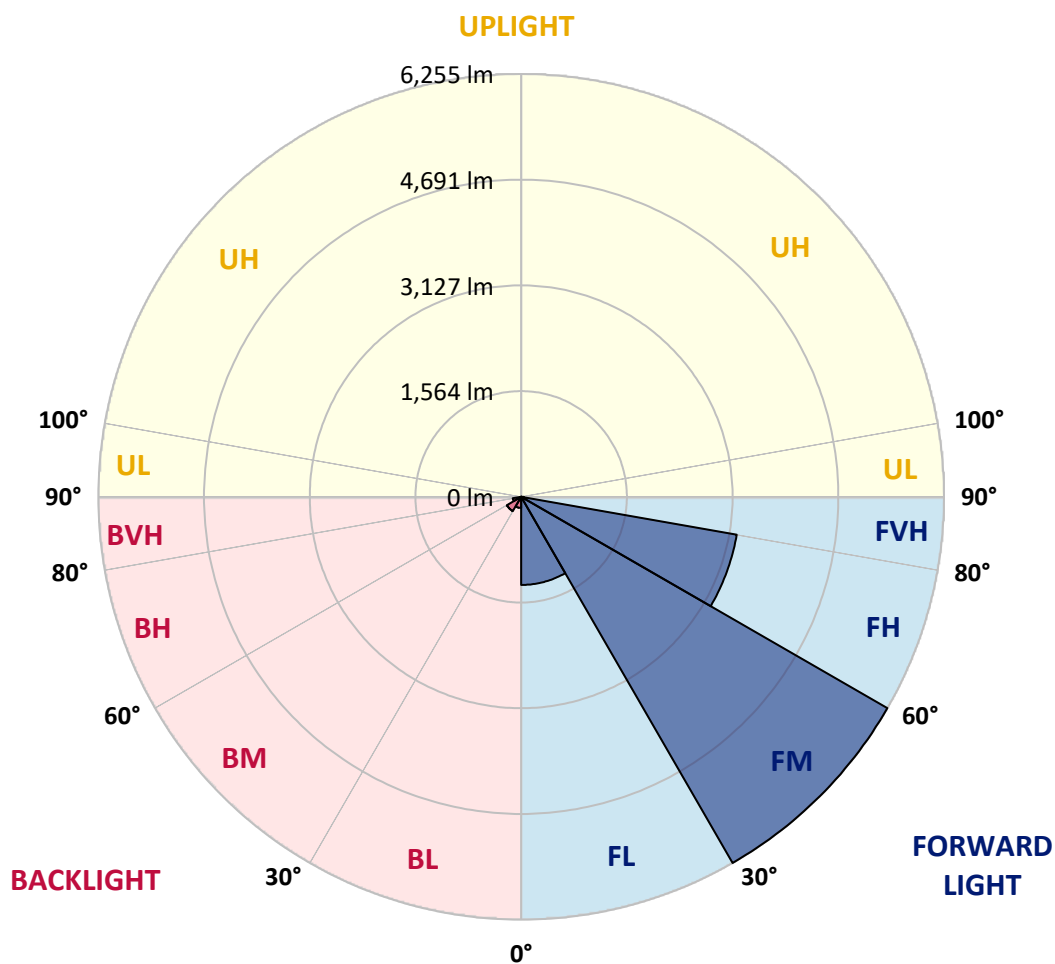
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1303.7	11.5			
FM	(30°-60°)	6254.7	55.0			
FH	(60°-80°)	3237.3	28.5			G2/5000
FVH	(80°-90°)	40.0	0.4			G1/100
BL	(0°-30°)	164.5	1.4	B1/500		
BM	(30°-60°)	244.8	2.2	B1/1000		
BH	(60°-80°)	126.3	1.1	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2
2.5°	2080.7	2069.4	2058.0	2014.5	1974.7	1938.7	1870.6	1781.6	1702.1	1685.0	1592.3
5°	2444.3	2431.0	2414.0	2370.4	2319.3	2258.7	2158.4	2022.0	1881.9	1851.6	1679.4
7.5°	2690.4	2679.0	2654.4	2633.6	2582.5	2523.8	2412.1	2253.0	2059.9	2022.0	1779.7
10°	2858.9	2851.3	2847.5	2830.5	2792.6	2745.3	2633.6	2467.0	2239.8	2196.2	1885.7
12.5°	2919.5	2919.5	2938.4	2966.8	2972.5	2957.3	2855.1	2688.5	2429.1	2383.7	2010.7
15°	2838.1	2847.5	2889.2	2980.1	3074.7	3137.2	3072.8	2917.6	2637.4	2588.1	2158.4
17.5°	2815.3	2824.8	2853.2	2932.7	3059.6	3226.2	3258.4	3139.1	2834.3	2792.6	2309.8
20°	2879.7	2889.2	2913.8	2982.0	3078.5	3247.0	3381.4	3353.0	3042.5	2999.0	2463.2
22.5°	3033.1	3038.8	3038.8	3091.8	3177.0	3301.9	3459.1	3555.6	3256.5	3209.1	2614.7
25°	3362.5	3351.1	3305.7	3279.2	3334.1	3436.3	3557.5	3733.6	3495.0	3430.7	2777.5
27.5°	3794.2	3832.0	3722.2	3595.4	3553.7	3612.4	3695.7	3890.7	3726.0	3657.9	2925.2
30°	4379.2	4364.1	4220.2	4038.4	3858.6	3837.7	3866.1	4025.2	3957.0	3892.6	3089.9
32.5°	4860.1	4888.5	4737.0	4515.5	4246.7	4119.8	4089.5	4186.1	4203.1	4161.5	3284.9
35°	5354.3	5384.6	5236.9	4990.7	4670.8	4458.7	4371.6	4384.9	4508.0	4454.9	3489.4
37.5°	5797.3	5823.8	5678.0	5426.2	5106.2	4846.9	4721.9	4619.7	4803.3	4756.0	3705.2
40°	6134.3	6138.1	6039.6	5814.3	5511.4	5242.6	5100.6	4899.9	5115.7	5083.5	3930.5
42.5°	6372.9	6380.4	6308.5	6115.4	5835.2	5585.2	5469.8	5231.2	5475.4	5447.0	4191.8
45°	6484.6	6497.8	6490.2	6312.3	6079.4	5863.6	5825.7	5583.3	5869.2	5842.7	4492.8
47.5°	6378.5	6378.5	6475.1	6450.5	6236.5	6092.6	6136.2	5950.6	6297.1	6272.5	4799.5
50°	5937.4	5943.1	6140.0	6422.1	6297.1	6264.9	6401.3	6310.4	6685.3	6700.4	5166.8
52.5°	4778.7	4769.2	5433.8	5975.3	6255.5	6342.6	6645.5	6677.7	7151.0	7196.4	5532.2
55°	3570.8	3565.1	4201.2	5183.9	5963.9	6302.8	6781.8	7005.2	7548.6	7577.0	5804.9
57.5°	2826.7	2811.6	3161.8	4178.5	5305.0	6124.8	6787.5	7067.7	7770.1	7819.3	6069.9
60°	2173.5	2160.3	2421.5	3108.8	4371.6	5651.5	6624.7	7071.5	7984.1	8071.1	6425.9
62.5°	1554.4	1569.5	1770.2	2230.3	3362.5	4983.2	6412.6	7124.5	8364.6	8463.1	6931.4
65°	1048.9	1041.3	1207.9	1518.4	2391.2	4083.9	6087.0	7236.2	9050.0	9222.3	7537.2
67.5°	728.9	734.6	810.3	988.3	1518.4	3135.3	5545.5	7298.7	9758.1	9892.5	7961.3
70°	526.3	533.9	575.6	664.5	927.7	2126.2	4687.8	7012.8	9949.3	10066.7	7666.0
72.5°	346.5	361.6	424.1	471.4	592.6	1331.0	3453.4	6041.5	9125.7	9212.8	6431.5
75°	187.4	191.2	272.6	352.2	422.2	829.3	2059.9	4074.4	6827.2	6798.8	4241.0
77.5°	145.8	151.5	168.5	251.8	284.0	456.3	814.1	1840.3	3233.8	3146.7	1446.5
80°	89.0	92.8	117.4	149.6	198.8	265.1	238.6	499.8	657.0	615.3	212.0
82.5°	53.0	56.8	70.1	125.0	157.1	125.0	83.3	121.2	123.1	121.2	53.0
85°	9.5	9.5	49.2	87.1	83.3	36.0	49.2	39.8	36.0	37.9	11.4
87.5°	0.0	0.0	18.9	26.5	37.9	13.3	18.9	9.5	9.5	9.5	5.7
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°	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2	1522.2
2.5°	1535.5	1471.1	1338.6	1223.1	1107.6	1022.4	958.0	891.7	869.0	840.6	825.5
5°	1562.0	1435.1	1172.0	961.8	783.8	647.5	560.4	507.4	473.3	448.7	443.0
7.5°	1601.7	1406.7	1037.5	753.5	558.5	422.2	350.3	314.3	295.4	284.0	280.2
10°	1649.1	1382.1	905.0	586.9	393.8	297.2	257.5	242.3	234.8	231.0	229.1
12.5°	1715.3	1372.6	793.3	452.5	297.2	244.2	223.4	213.9	208.3	202.6	200.7
15°	1802.4	1376.4	691.1	350.3	246.1	217.7	200.7	191.2	183.7	178.0	178.0
17.5°	1893.3	1382.1	590.7	284.0	223.4	198.8	179.9	166.6	160.9	155.3	153.4
20°	1978.5	1380.2	494.2	242.3	202.6	178.0	159.0	145.8	136.3	130.6	130.6
22.5°	2059.9	1368.9	403.3	217.7	185.5	157.1	136.3	123.1	115.5	109.8	109.8
25°	2147.0	1346.1	329.4	198.8	164.7	138.2	117.4	104.1	98.5	92.8	92.8
27.5°	2215.2	1308.3	268.8	181.8	145.8	119.3	100.3	89.0	83.3	79.5	79.5
30°	2289.0	1253.4	223.4	162.8	126.9	102.2	85.2	75.7	70.1	68.2	68.2
32.5°	2370.4	1192.8	191.2	143.9	107.9	87.1	71.9	66.3	60.6	58.7	58.7
35°	2465.1	1139.8	172.3	125.0	94.7	73.8	62.5	56.8	53.0	53.0	53.0
37.5°	2573.0	1084.9	155.3	109.8	81.4	62.5	53.0	51.1	49.2	47.3	47.3
40°	2690.4	1026.2	140.1	96.6	70.1	53.0	45.4	45.4	43.5	43.5	43.5
42.5°	2822.9	975.1	126.9	85.2	60.6	45.4	39.8	39.8	37.9	37.9	37.9
45°	2966.8	927.7	115.5	75.7	53.0	39.8	36.0	34.1	32.2	32.2	32.2
47.5°	3137.2	901.2	106.0	66.3	45.4	34.1	30.3	28.4	26.5	24.6	24.6
50°	3354.9	912.6	96.6	54.9	39.8	28.4	24.6	22.7	20.8	18.9	18.9
52.5°	3527.2	906.9	83.3	47.3	32.2	22.7	18.9	17.0	15.1	13.3	13.3
55°	3652.2	884.2	71.9	39.8	24.6	18.9	15.1	11.4	9.5	9.5	9.5
57.5°	3775.2	861.5	60.6	32.2	18.9	13.3	9.5	7.6	7.6	7.6	7.6
60°	3966.5	829.3	53.0	26.5	15.1	9.5	5.7	5.7	3.8	3.8	3.8
62.5°	4199.3	789.5	43.5	22.7	11.4	7.6	3.8	3.8	0.0	0.0	0.0
65°	4454.9	719.5	36.0	17.0	9.5	5.7	3.8	0.0	0.0	0.0	0.0
67.5°	4396.2	577.5	30.3	11.4	7.6	3.8	1.9	0.0	0.0	0.0	0.0
70°	3888.8	390.0	24.6	9.5	5.7	3.8	1.9	0.0	0.0	0.0	0.0
72.5°	3046.3	231.0	17.0	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	1950.1	115.5	11.4	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	653.2	56.8	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	92.8	18.9	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	7.6	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	0.0	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)