

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: P381187

Luminaire Tested: **USSL-XL-PA4B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381187
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-XL-PA4B-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA 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: 28545 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 303
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

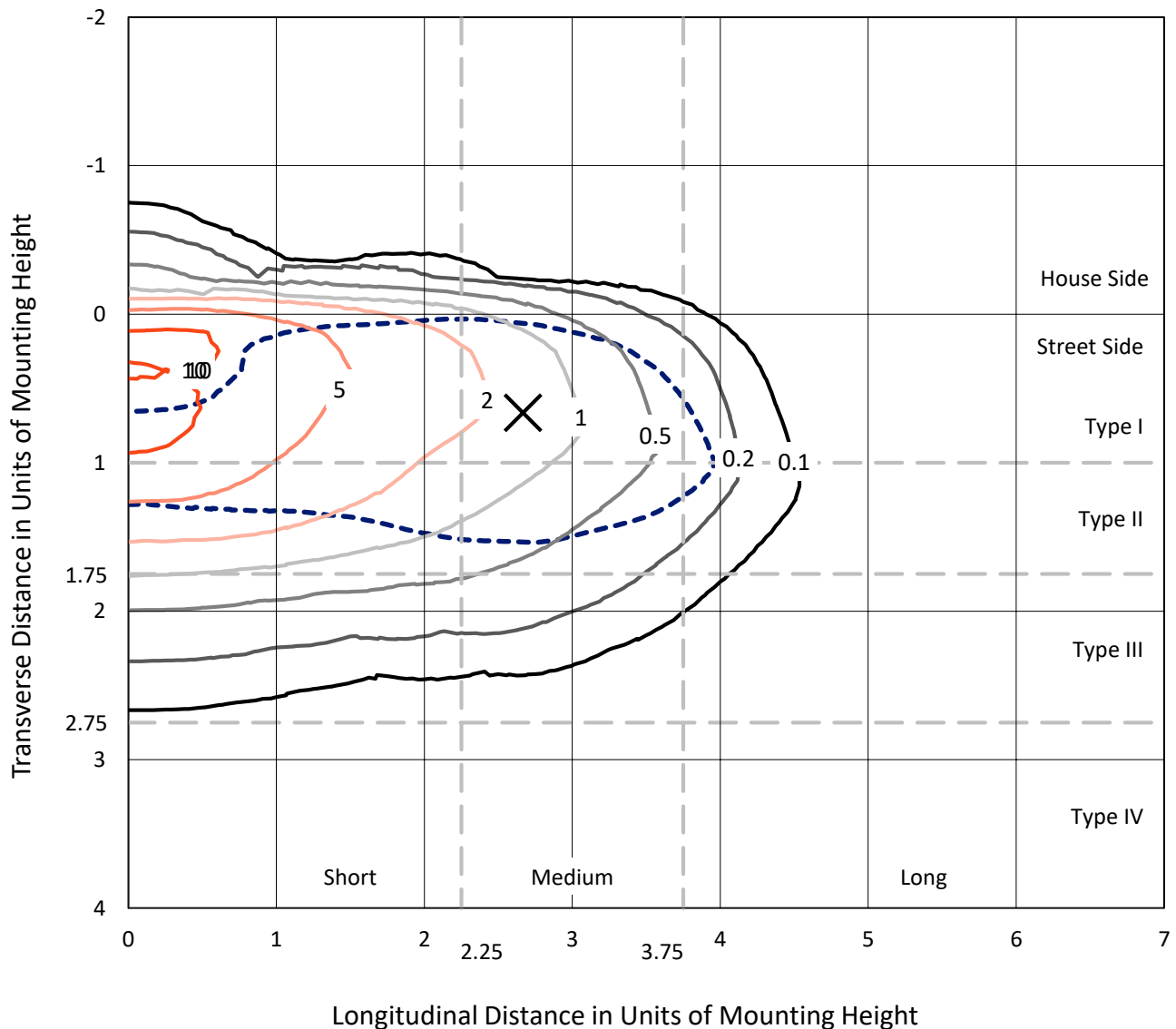


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

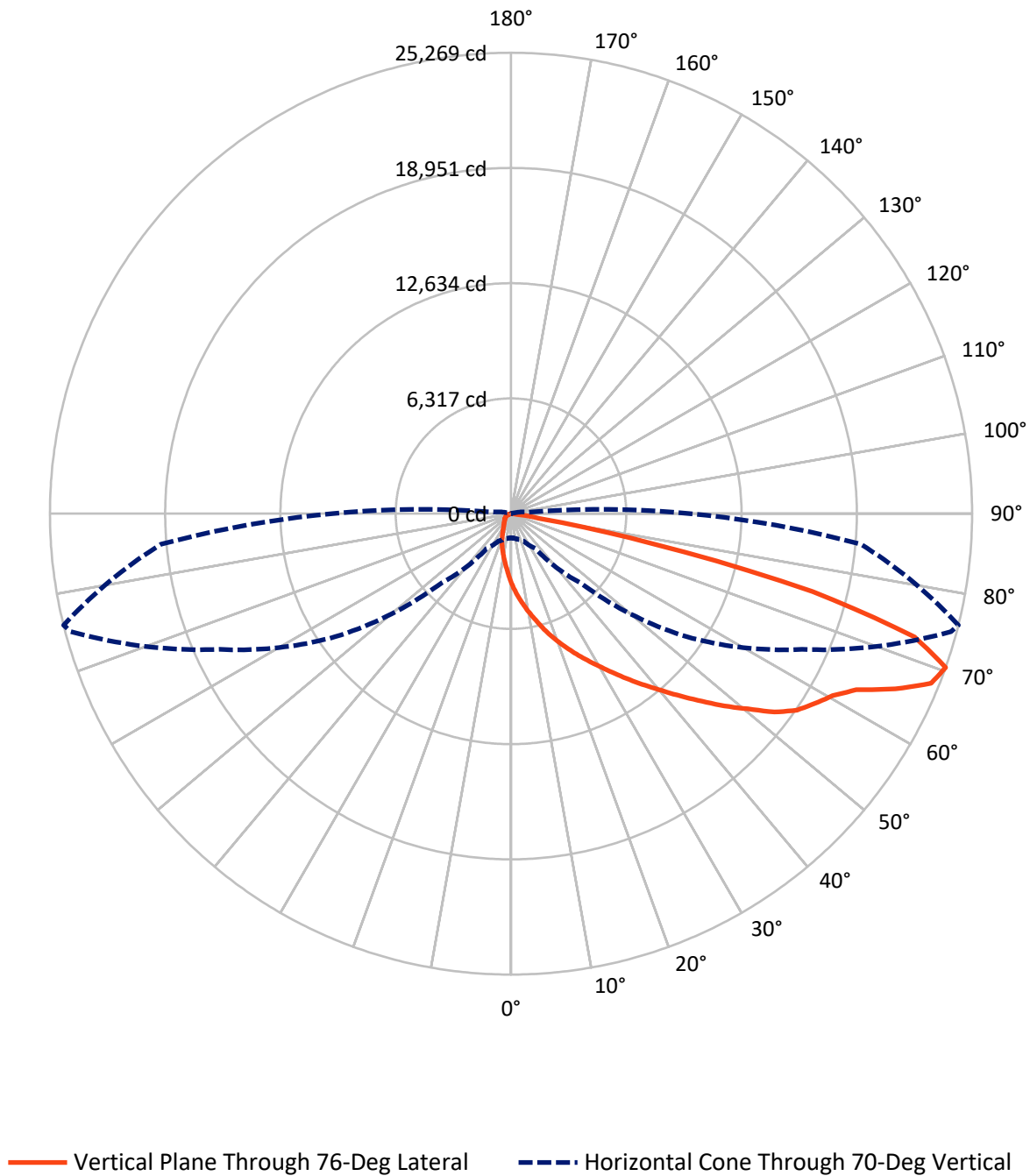


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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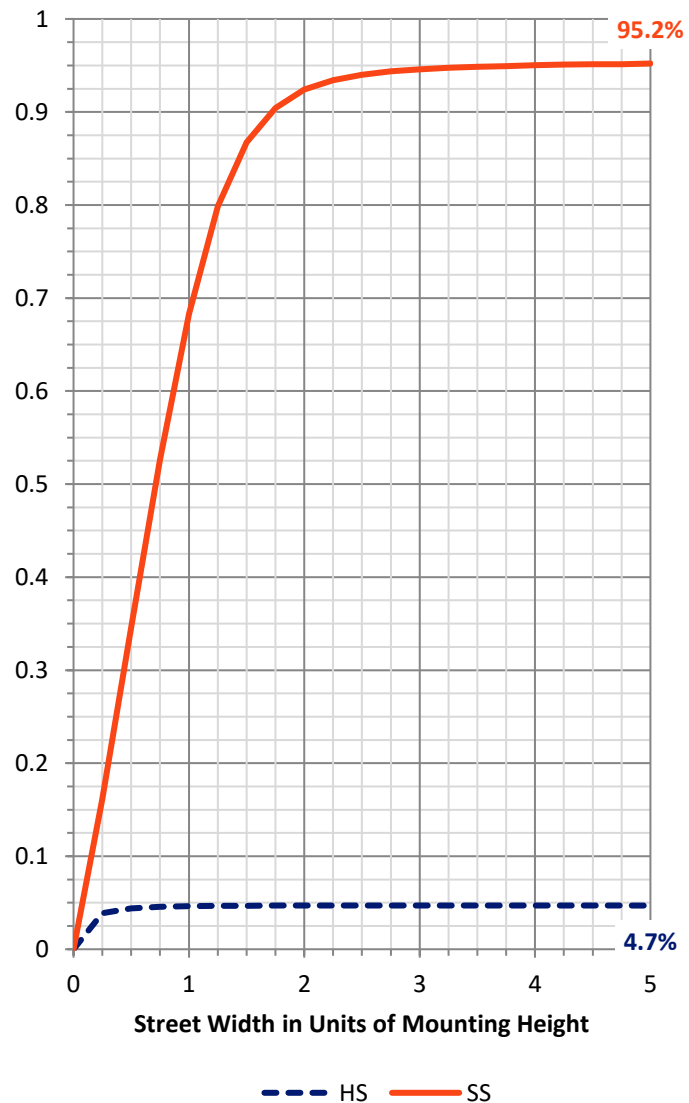
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.3	0.0	1346.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	27198.7	0.0	27198.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	28545.0	0.0	28545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	1.3
10°-20°	1161.8	4.1
20°-30°	2163.6	7.6
30°-40°	3827.0	13.4
40°-50°	5852.4	20.5
50°-60°	6635.2	23.2
60°-70°	5688.0	19.9
70°-80°	2754.9	9.7
80°-90°	102.2	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°	28545.0	100.0
0°-180°	28545.0	100.0

Coefficient of Utilization



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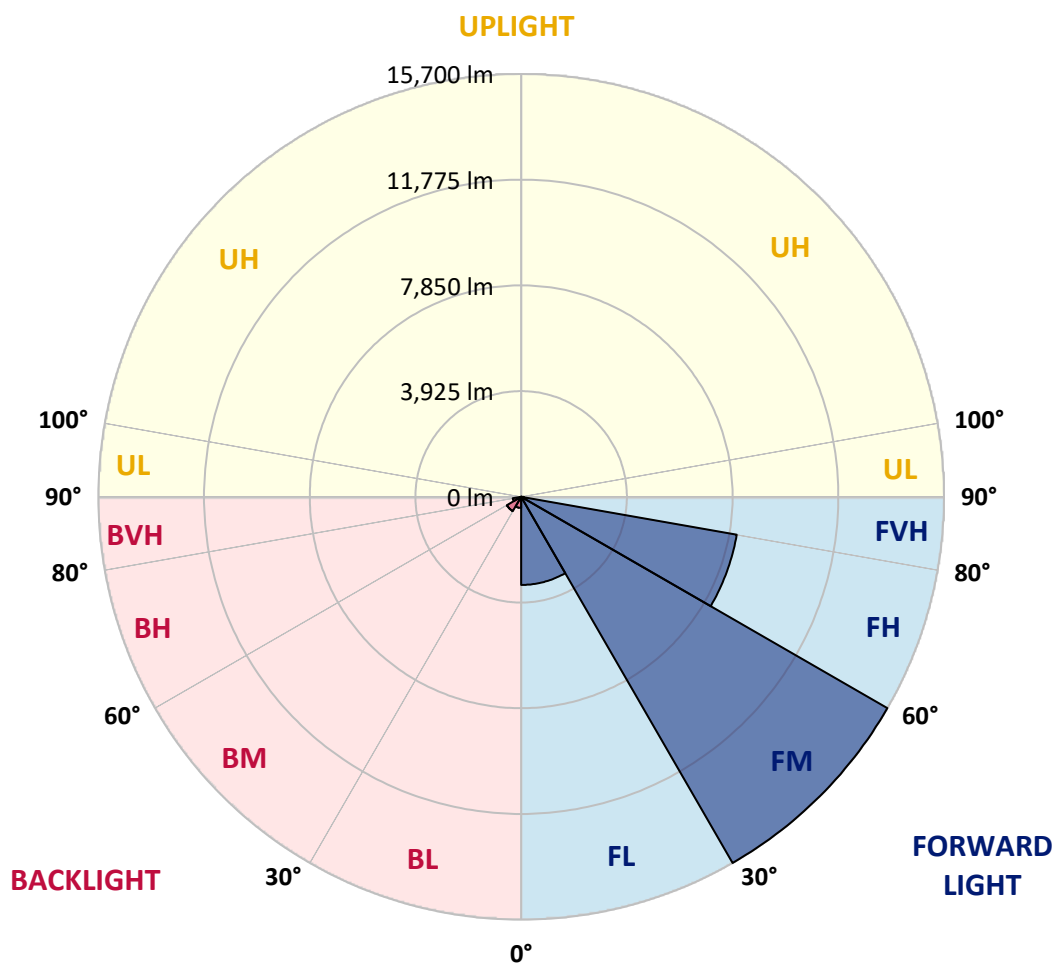
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3272.4	11.5			
FM	(30°-60°)	15700.0	55.0			
FH	(60°-80°)	8125.9	28.5			G4/12000
FVH	(80°-90°)	100.4	0.4			G2/225
BL	(0°-30°)	413.0	1.4	B1/500		
BM	(30°-60°)	614.5	2.2	B1/1000		
BH	(60°-80°)	317.0	1.1	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9
2.5°	5222.9	5194.4	5165.9	5056.6	4956.8	4866.5	4695.4	4472.0	4272.4	4229.6	3996.8
5°	6135.4	6102.1	6059.3	5950.0	5821.7	5669.6	5417.7	5075.6	4723.9	4647.8	4215.4
7.5°	6753.2	6724.6	6662.9	6610.6	6482.3	6335.0	6054.6	5655.4	5170.6	5075.6	4467.3
10°	7176.1	7157.1	7147.6	7104.8	7009.8	6891.0	6610.6	6192.4	5622.1	5512.8	4733.4
12.5°	7328.2	7328.2	7375.7	7447.0	7461.3	7423.3	7166.6	6748.4	6097.3	5983.3	5047.1
15°	7123.9	7147.6	7252.2	7480.3	7717.9	7874.7	7713.1	7323.5	6620.1	6496.5	5417.7
17.5°	7066.8	7090.6	7161.9	7361.5	7679.9	8098.1	8178.9	7879.5	7114.3	7009.8	5797.9
20°	7228.4	7252.2	7313.9	7485.0	7727.4	8150.4	8487.8	8416.5	7637.1	7527.8	6182.9
22.5°	7613.3	7627.6	7627.6	7760.7	7974.5	8288.2	8682.6	8925.0	8174.1	8055.3	6563.1
25°	8440.3	8411.8	8297.7	8231.2	8369.0	8625.6	8929.8	9371.7	8772.9	8611.4	6971.8
27.5°	9523.8	9618.9	9343.2	9024.8	8920.3	9067.6	9276.7	9766.2	9352.7	9181.6	7342.5
30°	10992.3	10954.3	10593.1	10136.9	9685.4	9633.1	9704.4	10103.6	9932.5	9770.9	7755.9
32.5°	12199.4	12270.7	11890.5	11334.5	10659.6	10341.2	10265.2	10507.6	10550.3	10445.8	8245.4
35°	13439.8	13515.8	13145.1	12527.3	11724.2	11191.9	10973.3	11006.6	11315.5	11182.4	8758.7
37.5°	14551.9	14618.4	14252.5	13620.4	12817.2	12166.2	11852.5	11595.9	12056.8	11938.0	9300.5
40°	15397.8	15407.3	15160.2	14594.6	13834.2	13159.4	12803.0	12299.2	12841.0	12760.2	9866.0
42.5°	15996.6	16015.6	15835.0	15350.3	14646.9	14019.6	13729.7	13130.9	13743.9	13672.7	10521.8
45°	16277.0	16310.2	16291.2	15844.5	15260.0	14718.2	14623.1	14014.8	14732.4	14665.9	11277.5
47.5°	16010.8	16010.8	16253.2	16191.4	15654.4	15293.2	15402.5	14936.8	15806.5	15744.7	12047.3
50°	14903.5	14917.8	15412.0	16120.1	15806.5	15725.7	16067.9	15839.8	16780.7	16818.8	12969.3
52.5°	11995.1	11971.3	13639.4	14998.6	15701.9	15920.5	16680.9	16761.7	17949.8	18063.9	13886.5
55°	8963.0	8948.8	10545.6	13012.1	14970.1	15820.7	17023.1	17583.9	18947.8	19019.1	14570.9
57.5°	7095.3	7057.3	7936.5	10488.6	13316.2	15374.0	17037.4	17740.7	19503.9	19627.4	15236.2
60°	5455.8	5422.5	6078.3	7803.4	10973.3	14185.9	16628.7	17750.2	20040.9	20259.5	16129.7
62.5°	3901.7	3939.7	4443.5	5598.3	8440.3	12508.3	16096.4	17883.3	20996.1	21243.2	17398.5
65°	2632.8	2613.8	3032.0	3811.4	6002.3	10250.9	15279.0	18163.7	22716.5	23149.0	18919.3
67.5°	1829.7	1843.9	2034.0	2480.8	3811.4	7870.0	13919.8	18320.5	24493.9	24831.3	19983.9
70°	1321.2	1340.2	1444.7	1668.1	2328.7	5336.9	11766.9	17602.9	24973.9	25268.5	19242.5
72.5°	869.7	907.7	1064.5	1183.3	1487.5	3340.9	8668.4	15164.9	22906.6	23125.2	16143.9
75°	470.5	480.0	684.3	883.9	1059.8	2081.6	5170.6	10227.2	17137.2	17065.9	10645.4
77.5°	365.9	380.2	423.0	632.1	712.9	1145.3	2043.5	4619.3	8117.1	7898.5	3630.8
80°	223.4	232.9	294.6	375.4	499.0	665.3	598.8	1254.6	1649.1	1544.5	532.3
82.5°	133.1	142.6	175.8	313.7	394.4	313.7	209.1	304.2	308.9	304.2	133.1
85°	23.8	23.8	123.6	218.6	209.1	90.3	123.6	99.8	90.3	95.0	28.5
87.5°	0.0	0.0	47.5	66.5	95.0	33.3	47.5	23.8	23.8	23.8	14.3
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°	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9	3820.9
2.5°	3854.2	3692.6	3359.9	3070.1	2780.2	2566.3	2404.7	2238.4	2181.4	2110.1	2072.0
5°	3920.7	3602.3	2941.7	2414.2	1967.5	1625.3	1406.7	1273.6	1188.1	1126.3	1112.1
7.5°	4020.5	3531.0	2604.3	1891.5	1402.0	1059.8	879.2	788.9	741.4	712.9	703.4
10°	4139.3	3469.3	2271.6	1473.2	988.5	746.1	646.3	608.3	589.3	579.8	575.0
12.5°	4305.7	3445.5	1991.3	1135.8	746.1	613.1	560.8	537.0	522.8	508.5	503.8
15°	4524.3	3455.0	1734.6	879.2	617.8	546.5	503.8	480.0	461.0	446.7	446.7
17.5°	4752.4	3469.3	1482.7	712.9	560.8	499.0	451.5	418.2	404.0	389.7	384.9
20°	4966.3	3464.5	1240.4	608.3	508.5	446.7	399.2	365.9	342.2	327.9	327.9
22.5°	5170.6	3436.0	1012.3	546.5	465.7	394.4	342.2	308.9	289.9	275.6	275.6
25°	5389.2	3379.0	826.9	499.0	413.5	346.9	294.6	261.4	247.1	232.9	232.9
27.5°	5560.3	3283.9	674.8	456.2	365.9	299.4	251.9	223.4	209.1	199.6	199.6
30°	5745.7	3146.1	560.8	408.7	318.4	256.6	213.9	190.1	175.8	171.1	171.1
32.5°	5950.0	2994.0	480.0	361.2	270.9	218.6	180.6	166.3	152.1	147.3	147.3
35°	6187.6	2860.9	432.5	313.7	237.6	185.3	156.8	142.6	133.1	133.1	133.1
37.5°	6458.5	2723.1	389.7	275.6	204.4	156.8	133.1	128.3	123.6	118.8	118.8
40°	6753.2	2575.8	351.7	242.4	175.8	133.1	114.1	114.1	109.3	109.3	109.3
42.5°	7085.8	2447.5	318.4	213.9	152.1	114.1	99.8	99.8	95.0	95.0	95.0
45°	7447.0	2328.7	289.9	190.1	133.1	99.8	90.3	85.5	80.8	80.8	80.8
47.5°	7874.7	2262.1	266.1	166.3	114.1	85.5	76.0	71.3	66.5	61.8	61.8
50°	8421.3	2290.7	242.4	137.8	99.8	71.3	61.8	57.0	52.3	47.5	47.5
52.5°	8853.7	2276.4	209.1	118.8	80.8	57.0	47.5	42.8	38.0	33.3	33.3
55°	9167.4	2219.4	180.6	99.8	61.8	47.5	38.0	28.5	23.8	23.8	23.8
57.5°	9476.3	2162.3	152.1	80.8	47.5	33.3	23.8	19.0	19.0	19.0	19.0
60°	9956.3	2081.6	133.1	66.5	38.0	23.8	14.3	14.3	9.5	9.5	9.5
62.5°	10540.8	1981.8	109.3	57.0	28.5	19.0	9.5	9.5	0.0	0.0	0.0
65°	11182.4	1805.9	90.3	42.8	23.8	14.3	9.5	0.0	0.0	0.0	0.0
67.5°	11035.1	1449.5	76.0	28.5	19.0	9.5	4.8	0.0	0.0	0.0	0.0
70°	9761.4	979.0	61.8	23.8	14.3	9.5	4.8	0.0	0.0	0.0	0.0
72.5°	7646.6	579.8	42.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0
75°	4895.0	289.9	28.5	14.3	9.5	4.8	0.0	0.0	0.0	0.0	0.0
77.5°	1639.6	142.6	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	232.9	47.5	9.5	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	19.0	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	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)