

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: P285769

Luminaire Tested: **USSL-XL-C06-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C06-D-U-T2-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46830.6 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 346
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

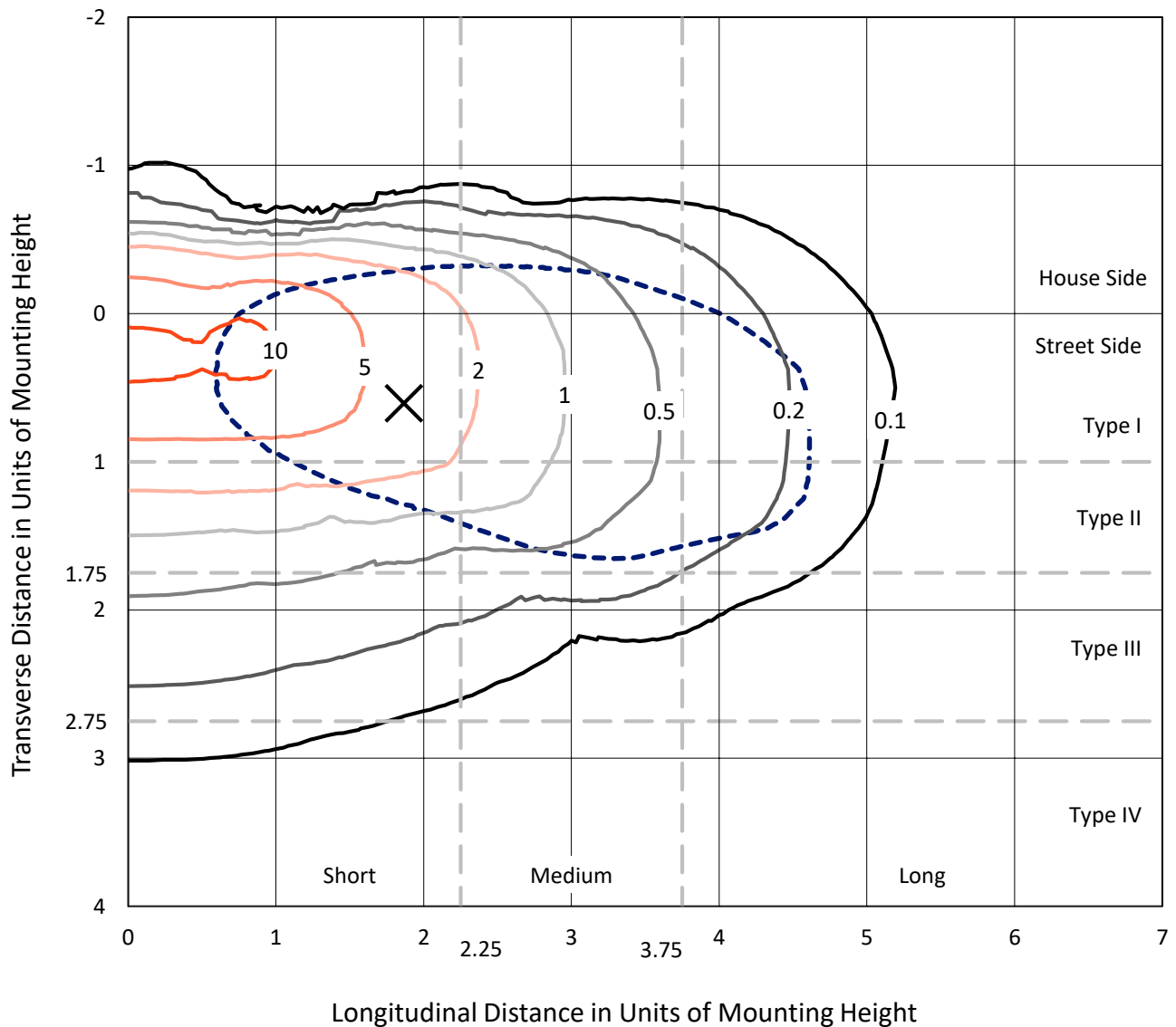


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

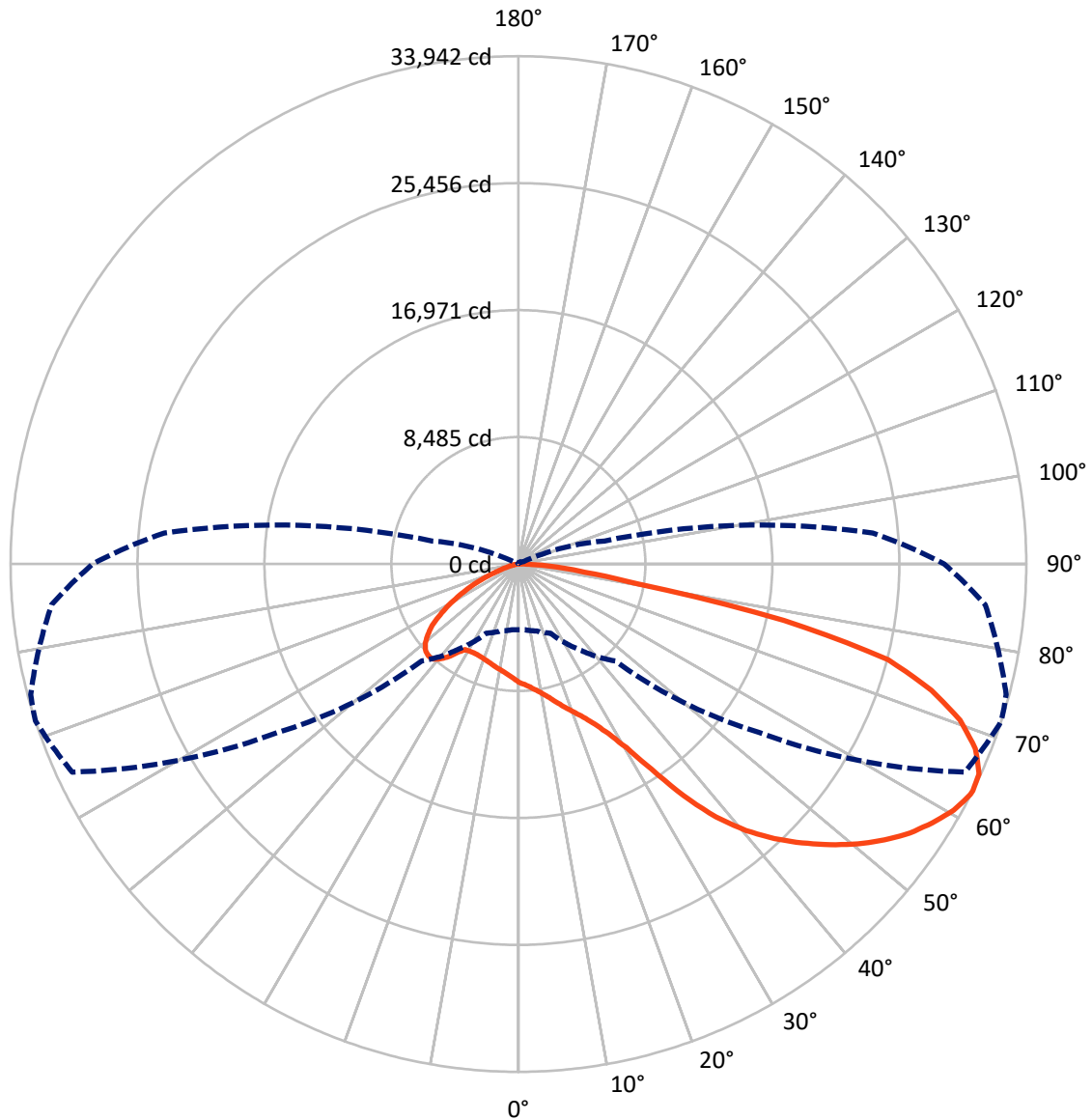


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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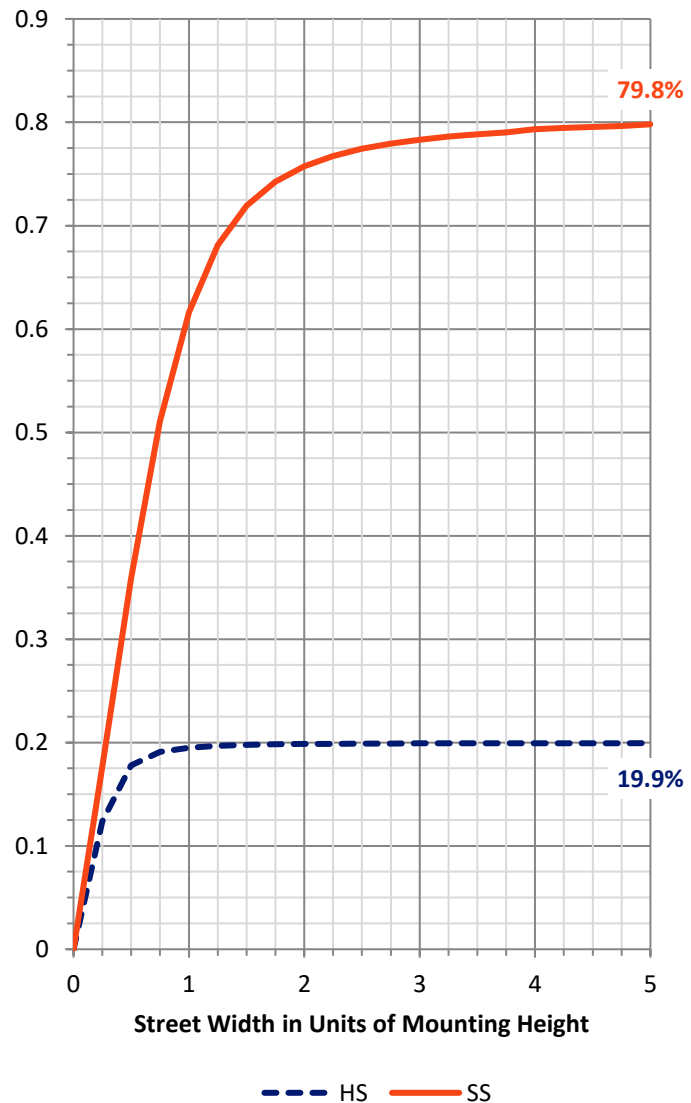
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9447.9	0.0	9447.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	37382.7	0.0	37382.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	46830.6	0.0	46830.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.9	1.6
10°-20°	2295.0	4.9
20°-30°	3872.4	8.3
30°-40°	5926.6	12.7
40°-50°	8256.5	17.6
50°-60°	9569.4	20.4
60°-70°	9381.3	20.0
70°-80°	5857.1	12.5
80°-90°	915.5	2.0
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°	46830.6	100.0
0°-180°	46830.6	100.0

Coefficient of Utilization



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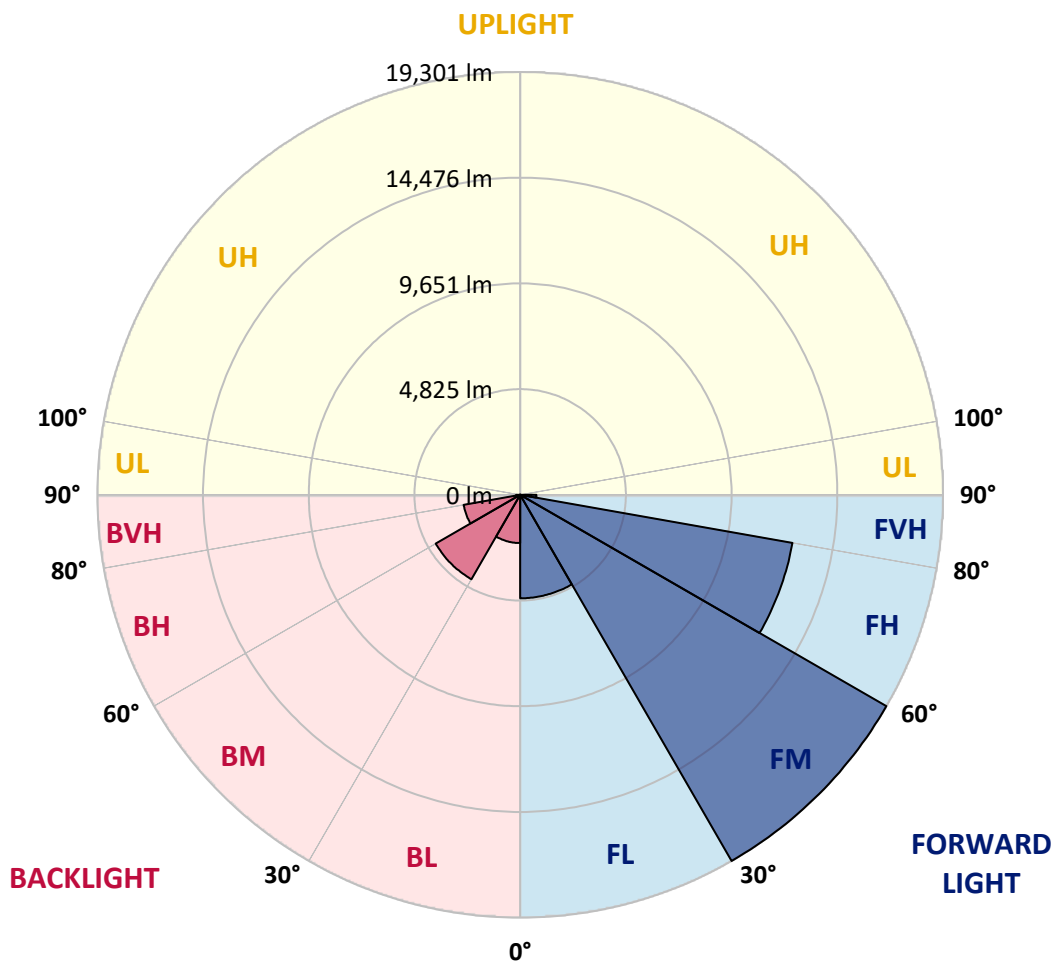
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4721.8	10.1			
FM	(30°-60°)	19301.5	41.2			
FH	(60°-80°)	12619.4	26.9			G5
FVH	(80°-90°)	740.1	1.6			G4/750
BL	(0°-30°)	2202.5	4.7	B3/2500		
BM	(30°-60°)	4450.9	9.5	B3/5000		
BH	(60°-80°)	2619.0	5.6	B4/5000		G4/5000
BVH	(80°-90°)	175.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8
2.5°	8612.3	8589.1	8563.9	8532.9	8507.7	8430.2	8360.6	8226.9	8062.3	8054.6	7921.0
5°	9199.1	9162.3	9133.3	9079.1	9019.0	8881.5	8720.8	8496.2	8261.8	8225.0	7988.7
7.5°	9689.1	9650.4	9617.4	9547.7	9480.0	9311.4	9104.2	8802.2	8511.6	8438.0	8083.6
10°	10117.1	10078.4	10062.9	9987.3	9938.9	9755.0	9497.3	9170.0	8806.0	8693.6	8226.9
12.5°	10568.4	10527.7	10500.5	10421.1	10363.1	10167.4	9938.9	9572.9	9160.4	9040.3	8432.2
15°	11013.7	10977.0	10915.1	10872.5	10804.6	10601.2	10386.3	10004.8	9594.2	9443.2	8707.2
17.5°	11424.3	11393.4	11346.9	11310.1	11253.9	11042.8	10808.5	10485.1	10064.8	9878.9	9022.9
20°	11726.5	11728.4	11709.0	11689.6	11709.0	11536.7	11346.9	10986.7	10554.8	10337.8	9350.2
22.5°	11986.0	12001.5	12026.7	12055.7	12179.6	12094.4	11865.9	11573.5	11110.6	10855.0	9770.5
25°	12113.8	12125.5	12237.7	12427.5	12706.4	12704.5	12491.5	12280.3	11840.8	11575.4	10355.3
27.5°	12189.4	12204.9	12361.7	12743.2	13235.1	13310.6	13223.5	13130.6	12824.6	12559.3	11128.0
30°	12185.5	12206.8	12448.8	12927.2	13651.5	14035.0	14042.7	14385.5	14240.3	14058.2	12431.5
32.5°	11894.9	11902.7	12239.7	12944.7	13965.2	14677.9	14997.5	15896.1	16345.4	16378.3	14838.7
35°	11205.5	11304.3	11807.8	12787.8	14191.8	15307.4	16134.3	17827.0	19019.9	19076.1	17255.6
37.5°	10709.8	10769.7	11343.0	12506.9	14296.5	15963.9	17439.6	20145.1	21450.5	21312.9	19256.2
40°	10167.4	10241.1	10829.8	12131.2	14230.5	16527.4	18770.1	22370.4	23416.2	23201.2	20960.5
42.5°	9567.1	9629.1	10183.0	11575.4	14021.4	16934.1	20054.0	24293.4	25097.2	24833.8	22509.8
45°	8976.4	9017.1	9542.0	10825.9	13618.5	17182.0	21225.8	26024.8	26588.4	26365.6	23937.1
47.5°	8226.9	8275.4	8918.3	10111.3	12880.8	17174.3	22240.6	27564.5	28035.1	27787.2	25209.5
50°	6344.5	6375.5	7795.0	9462.5	11927.9	16833.4	23110.2	28958.9	29402.4	29119.6	26468.4
52.5°	5748.0	5773.2	6212.8	8654.9	10887.9	16126.6	23681.5	30244.8	30645.7	30343.6	27655.4
55°	5463.4	5480.7	5693.8	7043.7	9975.8	14914.2	23933.2	31435.9	31739.9	31348.7	28619.9
57.5°	5060.5	5095.4	5416.8	6032.7	9082.9	13053.1	23573.0	32398.4	32626.9	32243.4	29559.2
60°	4754.5	4775.8	5046.9	5535.0	8004.3	10971.1	22287.0	33049.1	33420.9	33074.3	30442.3
62.5°	4456.2	4464.0	4690.6	5165.1	7066.9	9416.0	20092.8	33008.5	33909.0	33694.0	31213.1
63°	4392.3	4400.1	4630.6	5097.3	6929.4	9158.5	19612.5	32909.7	33941.9	33746.3	31315.8
65°	4121.2	4132.9	4357.5	4787.5	6332.9	8343.1	17486.1	32301.5	33831.5	33825.6	31453.3
67.5°	3716.4	3737.7	3929.5	4297.5	5519.4	7312.8	14207.3	31652.7	32944.6	33014.2	30684.4
70°	3226.4	3241.9	3458.9	3768.7	4644.1	6208.9	10880.2	29578.6	31313.8	31120.1	28902.7
72.5°	2707.4	2734.5	2941.8	3181.9	3852.0	5122.5	7878.3	26040.4	28866.0	29009.3	25914.4
75°	2362.7	2378.2	2556.4	2726.8	3199.3	4076.7	5269.6	18698.4	25523.2	25560.0	22354.9
77.5°	1959.9	1979.3	2163.3	2324.0	2595.2	3069.6	3635.1	9718.1	18148.5	19178.8	17358.3
80°	1080.7	1254.9	1559.0	1677.2	1878.6	1865.0	2312.4	5136.1	8031.3	10041.6	11465.0
82.5°	182.1	234.3	629.4	821.1	894.8	786.2	1123.3	2827.5	4477.5	5138.0	6170.2
85°	77.5	112.3	329.2	360.3	224.7	218.9	443.5	1479.6	2562.2	2951.5	3180.0
87.5°	9.6	17.4	85.2	112.3	52.3	71.6	89.1	462.9	892.8	1026.4	1160.1
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°	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8	7926.8
2.5°	7857.0	7812.5	7709.8	7630.4	7572.3	7493.0	7407.7	7345.7	7279.9	7250.9	7262.4
5°	7868.7	7769.9	7551.0	7378.7	7187.0	7045.6	6861.6	6768.6	6667.9	6617.6	6615.6
7.5°	7899.6	7744.7	7400.0	7128.9	6855.8	6635.0	6394.8	6230.2	6141.2	6075.3	6067.5
10°	7977.1	7756.3	7285.8	6917.8	6565.2	6269.0	5976.6	5763.5	5641.5	5573.7	5583.3
12.5°	8116.5	7799.0	7204.4	6745.4	6292.2	5939.8	5566.0	5316.1	5167.0	5083.7	5107.0
15°	8308.2	7891.9	7121.0	6532.4	5999.8	5585.4	5186.4	4903.6	4737.1	4665.4	4688.7
17.5°	8523.2	8027.5	7063.0	6294.1	5691.9	5223.2	4853.3	4576.3	4297.5	4241.3	4241.3
20°	8763.4	8178.5	7053.3	6067.5	5387.8	4878.4	4452.4	4220.0	3815.2	3677.7	3648.7
22.5°	9081.0	8391.5	7041.7	5860.3	5064.4	4522.1	3999.2	3633.1	3108.4	2872.1	2848.8
25°	9518.6	8685.9	7061.1	5689.9	4770.0	4121.2	3375.6	2788.8	2347.3	2050.9	2035.4
27.5°	10105.5	9079.1	7123.1	5531.1	4475.6	3627.4	2614.5	1988.9	1648.1	1382.7	1303.4
30°	11215.2	9700.7	7231.5	5389.7	4132.9	2965.1	1859.2	1346.0	1102.0	918.0	877.3
32.5°	13335.9	11261.6	7380.6	5232.8	3710.6	2184.6	1241.4	898.6	701.0	594.6	617.8
35°	15450.7	13208.0	8091.4	5002.4	3154.8	1454.4	828.8	573.3	441.6	437.6	462.9
37.5°	17356.3	14929.8	9052.0	4744.9	2411.2	978.0	497.7	381.6	369.9	402.9	453.2
40°	18936.6	16328.0	9863.4	4384.6	1655.9	598.4	325.4	346.7	329.2	342.8	336.9
42.5°	20404.7	17586.8	10521.8	3976.0	976.1	344.7	282.8	321.5	296.3	284.7	261.5
45°	21725.4	18774.0	10853.1	3333.0	569.4	275.0	257.6	304.1	286.6	265.3	230.4
47.5°	22928.1	19815.9	11069.9	2453.8	327.3	240.2	240.2	273.0	269.2	244.0	224.7
50°	24175.4	20834.6	11048.6	1506.8	277.0	220.8	228.5	228.5	242.1	189.8	172.3
52.5°	25277.2	21750.6	10607.1	854.1	255.6	209.1	207.2	185.9	197.6	147.2	137.5
55°	26172.0	22463.3	9865.3	563.5	242.1	207.2	182.1	160.8	151.0	106.5	110.4
57.5°	27051.3	23141.1	8730.5	445.5	251.7	199.5	166.5	137.5	118.2	83.3	79.4
60°	27899.5	23681.5	7527.8	400.9	265.3	199.5	137.5	116.2	79.4	63.9	56.2
62.5°	28412.7	23799.6	6197.3	362.2	273.0	185.9	123.9	94.9	58.1	42.6	38.7
63°	28449.5	23764.8	5961.0	356.3	275.0	185.9	123.9	91.0	56.2	38.7	34.9
65°	28393.3	23325.1	5039.2	336.9	280.8	178.2	118.2	73.6	44.5	27.1	23.2
67.5°	27454.1	21855.2	3735.8	315.6	269.2	176.3	108.4	60.0	34.9	17.4	13.6
70°	25155.2	19573.8	2496.4	280.8	259.5	172.3	127.8	50.3	29.0	9.6	7.7
72.5°	21944.3	17112.3	1671.4	230.4	226.6	141.4	77.5	42.6	21.3	3.9	0.0
75°	18547.4	13771.6	1034.1	176.3	184.0	120.1	62.0	36.8	17.4	0.0	0.0
77.5°	14437.7	10173.2	735.9	112.3	129.7	102.6	52.3	30.9	13.6	0.0	0.0
80°	9849.9	6894.5	532.6	62.0	67.8	67.8	42.6	23.2	7.7	0.0	0.0
82.5°	5713.2	3863.7	271.1	30.9	29.0	34.9	19.4	11.7	1.9	0.0	0.0
85°	2786.9	1712.1	46.5	17.4	15.5	15.5	7.7	0.0	0.0	0.0	0.0
87.5°	945.1	443.5	5.8	7.7	5.8	1.9	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)