

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: P381186

Luminaire Tested: **USSL-XL-PA4A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381186
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-PA4A-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA 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: 24502 lumens
Efficiency: N/A
Efficacy: 100.0 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 - G3

Input Watts (W): 245
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



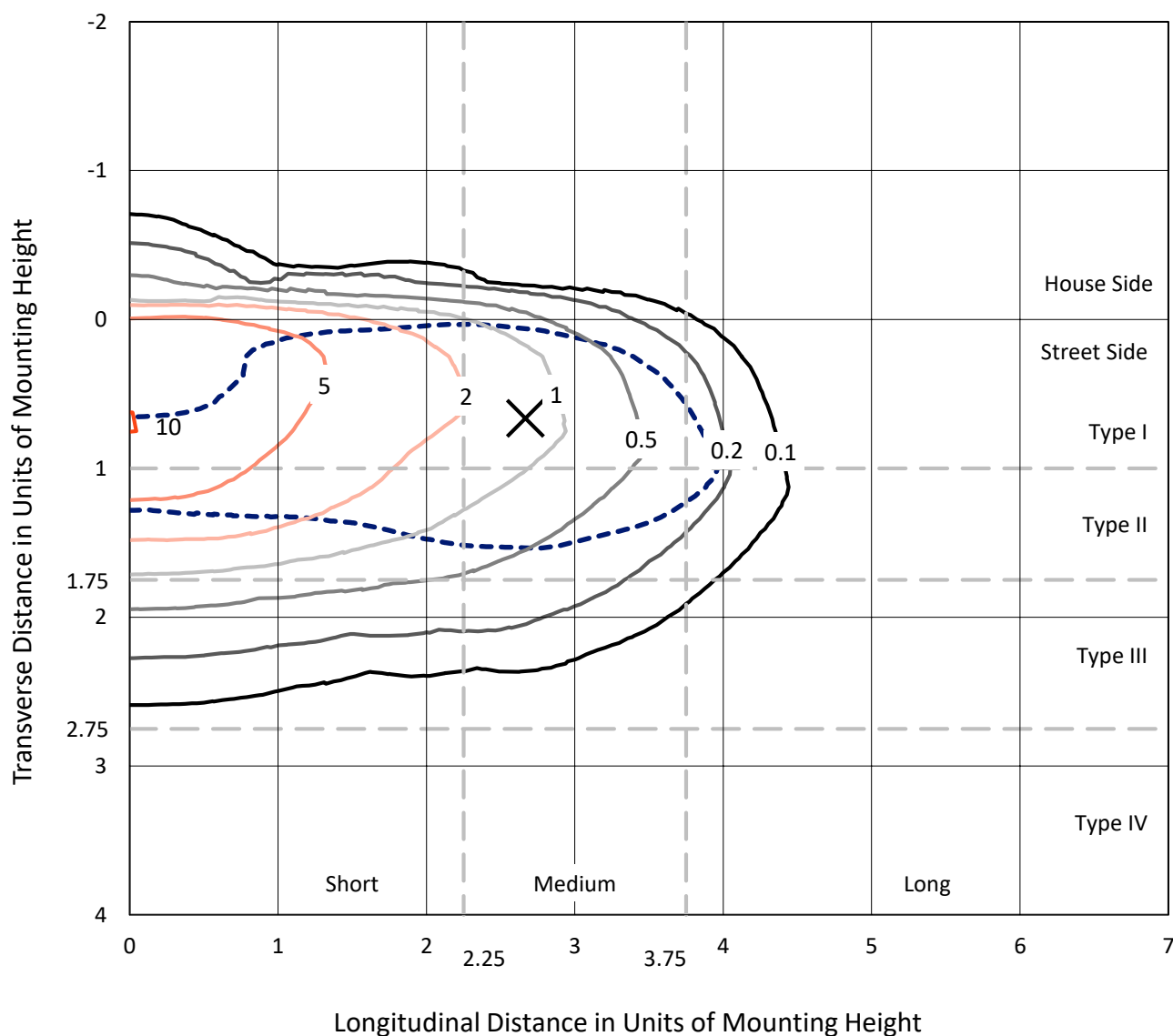
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

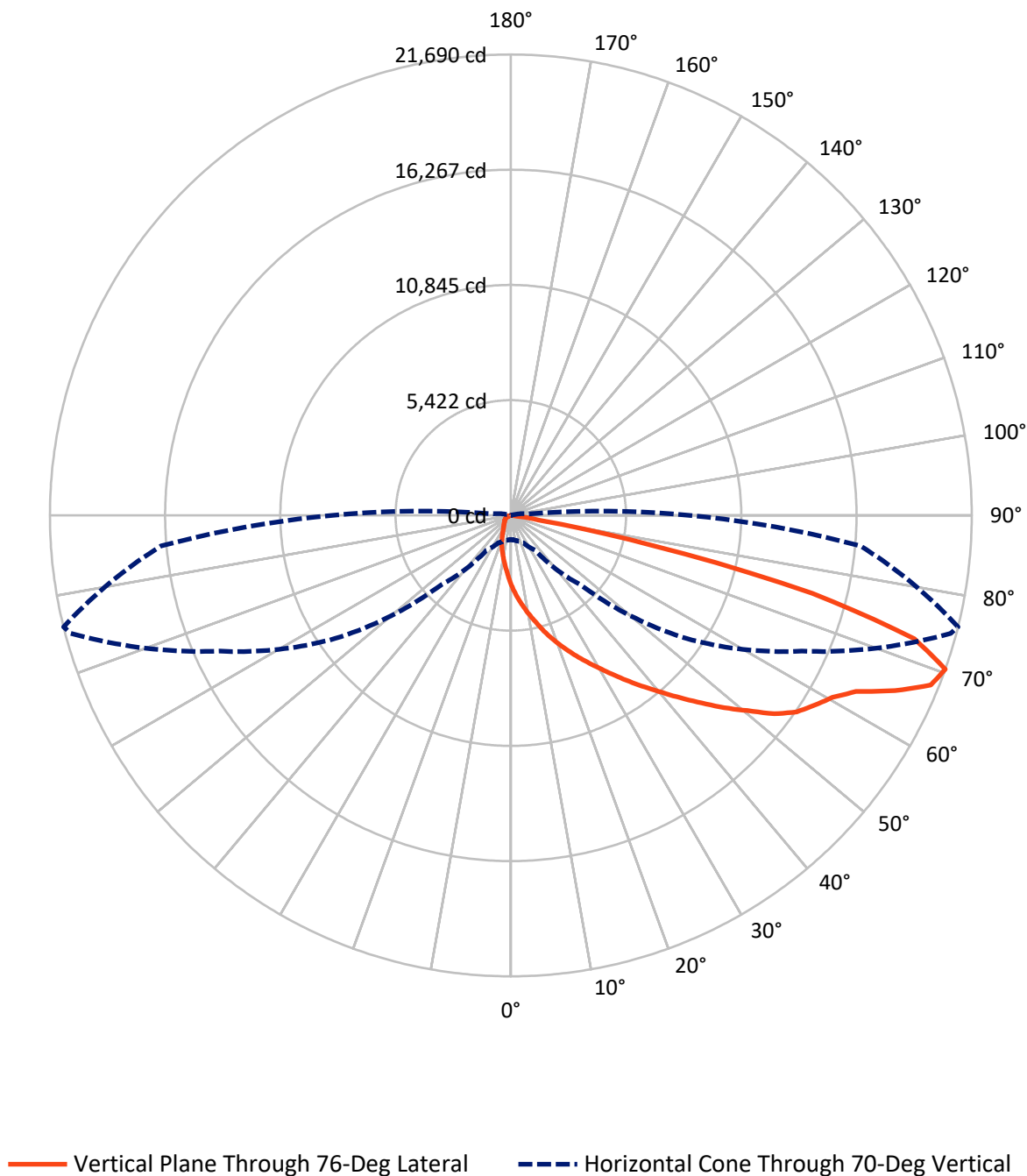


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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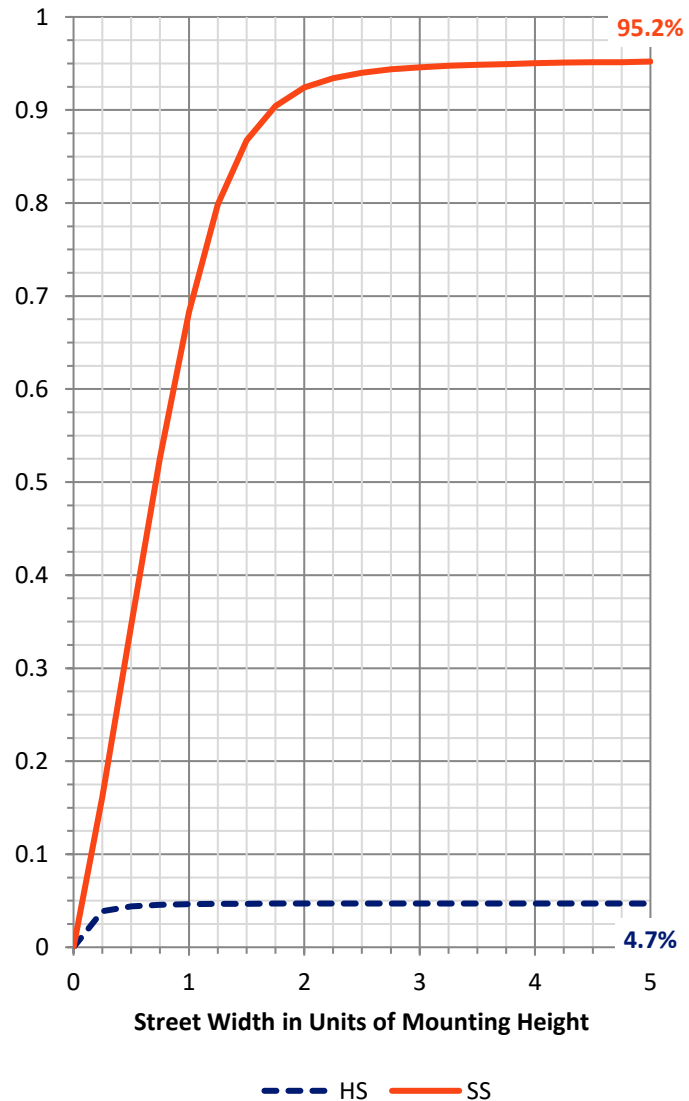
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.6	0.0	1155.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23346.4	0.0	23346.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	24502.0	0.0	24502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	1.3
10°-20°	997.2	4.1
20°-30°	1857.2	7.6
30°-40°	3284.9	13.4
40°-50°	5023.5	20.5
50°-60°	5695.4	23.2
60°-70°	4882.4	19.9
70°-80°	2364.7	9.7
80°-90°	87.7	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°	24502.0	100.0
0°-180°	24502.0	100.0

Coefficient of Utilization



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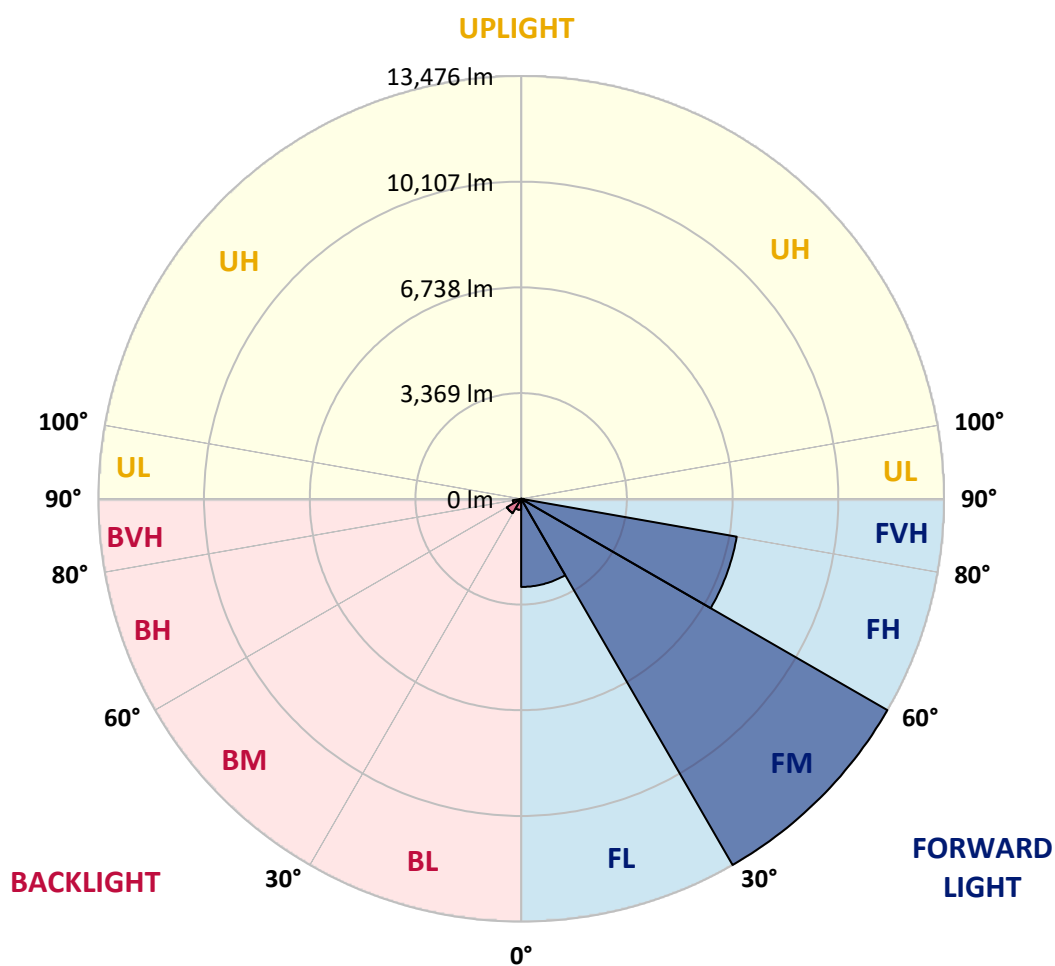
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2808.9	11.5			
FM	(30°-60°)	13476.3	55.0			
FH	(60°-80°)	6975.0	28.5			G3/7500
FVH	(80°-90°)	86.2	0.4			G1/100
BL	(0°-30°)	354.5	1.4	B1/500		
BM	(30°-60°)	527.5	2.2	B1/1000		
BH	(60°-80°)	272.1	1.1	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8
2.5°	4483.1	4458.7	4434.2	4340.4	4254.7	4177.2	4030.3	3838.6	3667.3	3630.6	3430.7
5°	5266.4	5237.8	5201.1	5107.3	4997.1	4866.6	4650.4	4356.7	4054.8	3989.5	3618.3
7.5°	5796.7	5772.2	5719.2	5674.3	5564.2	5437.7	5197.0	4854.4	4438.3	4356.7	3834.5
10°	6159.7	6143.4	6135.3	6098.5	6017.0	5915.0	5674.3	5315.3	4825.8	4732.0	4063.0
12.5°	6290.3	6290.3	6331.1	6392.2	6404.5	6371.9	6151.6	5792.6	5233.7	5135.8	4332.2
15°	6114.9	6135.3	6225.0	6420.8	6624.8	6759.4	6620.7	6286.2	5682.5	5576.4	4650.4
17.5°	6065.9	6086.3	6147.5	6318.8	6592.1	6951.1	7020.5	6763.5	6106.7	6017.0	4976.7
20°	6204.6	6225.0	6278.0	6424.9	6632.9	6996.0	7285.6	7224.4	6555.4	6461.6	5307.2
22.5°	6535.0	6547.3	6547.3	6661.5	6845.1	7114.3	7452.9	7660.9	7016.4	6914.4	5633.5
25°	7244.8	7220.3	7122.4	7065.3	7183.6	7403.9	7665.0	8044.4	7530.4	7391.7	5984.3
27.5°	8174.9	8256.5	8019.9	7746.6	7656.8	7783.3	7962.8	8382.9	8028.0	7881.2	6302.5
30°	9435.4	9402.8	9092.7	8701.1	8313.6	8268.7	8329.9	8672.6	8525.7	8387.0	6657.4
32.5°	10471.5	10532.7	10206.4	9729.1	9149.8	8876.5	8811.3	9019.3	9056.0	8966.3	7077.6
35°	11536.2	11601.5	11283.3	10753.0	10063.6	9606.7	9419.1	9447.6	9712.8	9598.6	7518.1
37.5°	12490.8	12547.9	12233.8	11691.2	11001.8	10443.0	10173.8	9953.5	10349.2	10247.2	7983.2
40°	13216.9	13225.1	13012.9	12527.5	11874.8	11295.6	10989.6	10557.2	11022.2	10952.9	8468.6
42.5°	13730.9	13747.2	13592.2	13176.1	12572.4	12033.9	11785.1	11271.1	11797.3	11736.1	9031.6
45°	13971.6	14000.1	13983.8	13600.4	13098.6	12633.6	12552.0	12029.8	12645.8	12588.7	9680.2
47.5°	13743.1	13743.1	13951.2	13898.1	13437.2	13127.2	13221.0	12821.2	13567.7	13514.7	10341.0
50°	12792.7	12804.9	13229.1	13837.0	13567.7	13498.4	13792.1	13596.3	14404.0	14436.6	11132.4
52.5°	10296.1	10275.7	11707.6	12874.2	13478.0	13665.6	14318.3	14387.7	15407.5	15505.4	11919.7
55°	7693.5	7681.3	9051.9	11169.1	12849.8	13580.0	14612.0	15093.4	16264.1	16325.3	12507.1
57.5°	6090.4	6057.7	6812.4	9003.0	11430.2	13196.5	14624.3	15228.0	16741.4	16847.5	13078.2
60°	4683.0	4654.5	5217.4	6698.2	9419.1	12176.7	14273.4	15236.2	17202.4	17390.0	13845.1
62.5°	3349.1	3381.7	3814.1	4805.4	7244.8	10736.7	13816.6	15350.4	18022.3	18234.4	14934.3
65°	2259.9	2243.6	2602.6	3271.6	5152.1	8799.0	13114.9	15591.1	19499.0	19870.2	16239.7
67.5°	1570.5	1582.8	1745.9	2129.4	3271.6	6755.3	11948.2	15725.7	21024.7	21314.3	17153.4
70°	1134.0	1150.4	1240.1	1431.8	1998.9	4581.0	10100.3	15109.7	21436.7	21689.6	16517.0
72.5°	746.5	779.1	913.8	1015.7	1276.8	2867.7	7440.6	13017.0	19662.2	19849.8	13857.4
75°	403.8	412.0	587.4	758.7	909.7	1786.7	4438.3	8778.6	14709.9	14648.7	9137.6
77.5°	314.1	326.3	363.1	542.5	611.9	983.1	1754.1	3965.1	6967.4	6779.8	3116.6
80°	191.7	199.9	252.9	322.3	428.3	571.1	514.0	1076.9	1415.5	1325.8	456.9
82.5°	114.2	122.4	150.9	269.2	338.6	269.2	179.5	261.1	265.2	261.1	114.2
85°	20.4	20.4	106.1	187.6	179.5	77.5	106.1	85.7	77.5	81.6	24.5
87.5°	0.0	0.0	40.8	57.1	81.6	28.6	40.8	20.4	20.4	20.4	12.2
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°	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8
2.5°	3308.3	3169.6	2884.1	2635.2	2386.4	2202.8	2064.1	1921.3	1872.4	1811.2	1778.6
5°	3365.4	3092.1	2525.1	2072.3	1688.8	1395.1	1207.5	1093.3	1019.8	966.8	954.6
7.5°	3451.1	3030.9	2235.5	1623.6	1203.4	909.7	754.7	677.2	636.4	611.9	603.7
10°	3553.1	2977.9	1949.9	1264.6	848.5	640.4	554.8	522.1	505.8	497.7	493.6
12.5°	3695.8	2957.5	1709.2	975.0	640.4	526.2	481.4	461.0	448.7	436.5	432.4
15°	3883.5	2965.6	1488.9	754.7	530.3	469.1	432.4	412.0	395.7	383.5	383.5
17.5°	4079.3	2977.9	1272.7	611.9	481.4	428.3	387.5	359.0	346.7	334.5	330.4
20°	4262.9	2973.8	1064.7	522.1	436.5	383.5	342.7	314.1	293.7	281.5	281.5
22.5°	4438.3	2949.3	868.9	469.1	399.8	338.6	293.7	265.2	248.8	236.6	236.6
25°	4625.9	2900.4	709.8	428.3	354.9	297.8	252.9	224.4	212.1	199.9	199.9
27.5°	4772.8	2818.8	579.3	391.6	314.1	257.0	216.2	191.7	179.5	171.3	171.3
30°	4931.9	2700.5	481.4	350.8	273.3	220.3	183.6	163.2	150.9	146.9	146.9
32.5°	5107.3	2570.0	412.0	310.0	232.5	187.6	155.0	142.8	130.5	126.5	126.5
35°	5311.2	2455.7	371.2	269.2	204.0	159.1	134.6	122.4	114.2	114.2	114.2
37.5°	5543.8	2337.4	334.5	236.6	175.4	134.6	114.2	110.1	106.1	102.0	102.0
40°	5796.7	2211.0	301.9	208.0	150.9	114.2	97.9	97.9	93.8	93.8	93.8
42.5°	6082.2	2100.8	273.3	183.6	130.5	97.9	85.7	85.7	81.6	81.6	81.6
45°	6392.2	1998.9	248.8	163.2	114.2	85.7	77.5	73.4	69.3	69.3	69.3
47.5°	6759.4	1941.7	228.4	142.8	97.9	73.4	65.3	61.2	57.1	53.0	53.0
50°	7228.5	1966.2	208.0	118.3	85.7	61.2	53.0	49.0	44.9	40.8	40.8
52.5°	7599.7	1954.0	179.5	102.0	69.3	49.0	40.8	36.7	32.6	28.6	28.6
55°	7869.0	1905.0	155.0	85.7	53.0	40.8	32.6	24.5	20.4	20.4	20.4
57.5°	8134.1	1856.1	130.5	69.3	40.8	28.6	20.4	16.3	16.3	16.3	16.3
60°	8546.1	1786.7	114.2	57.1	32.6	20.4	12.2	12.2	8.2	8.2	8.2
62.5°	9047.9	1701.1	93.8	49.0	24.5	16.3	8.2	8.2	0.0	0.0	0.0
65°	9598.6	1550.1	77.5	36.7	20.4	12.2	8.2	0.0	0.0	0.0	0.0
67.5°	9472.1	1244.2	65.3	24.5	16.3	8.2	4.1	0.0	0.0	0.0	0.0
70°	8378.9	840.3	53.0	20.4	12.2	8.2	4.1	0.0	0.0	0.0	0.0
72.5°	6563.6	497.7	36.7	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
75°	4201.7	248.8	24.5	12.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	1407.4	122.4	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	199.9	40.8	8.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	16.3	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.1	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)