

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: P266439

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4342.1 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 74
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



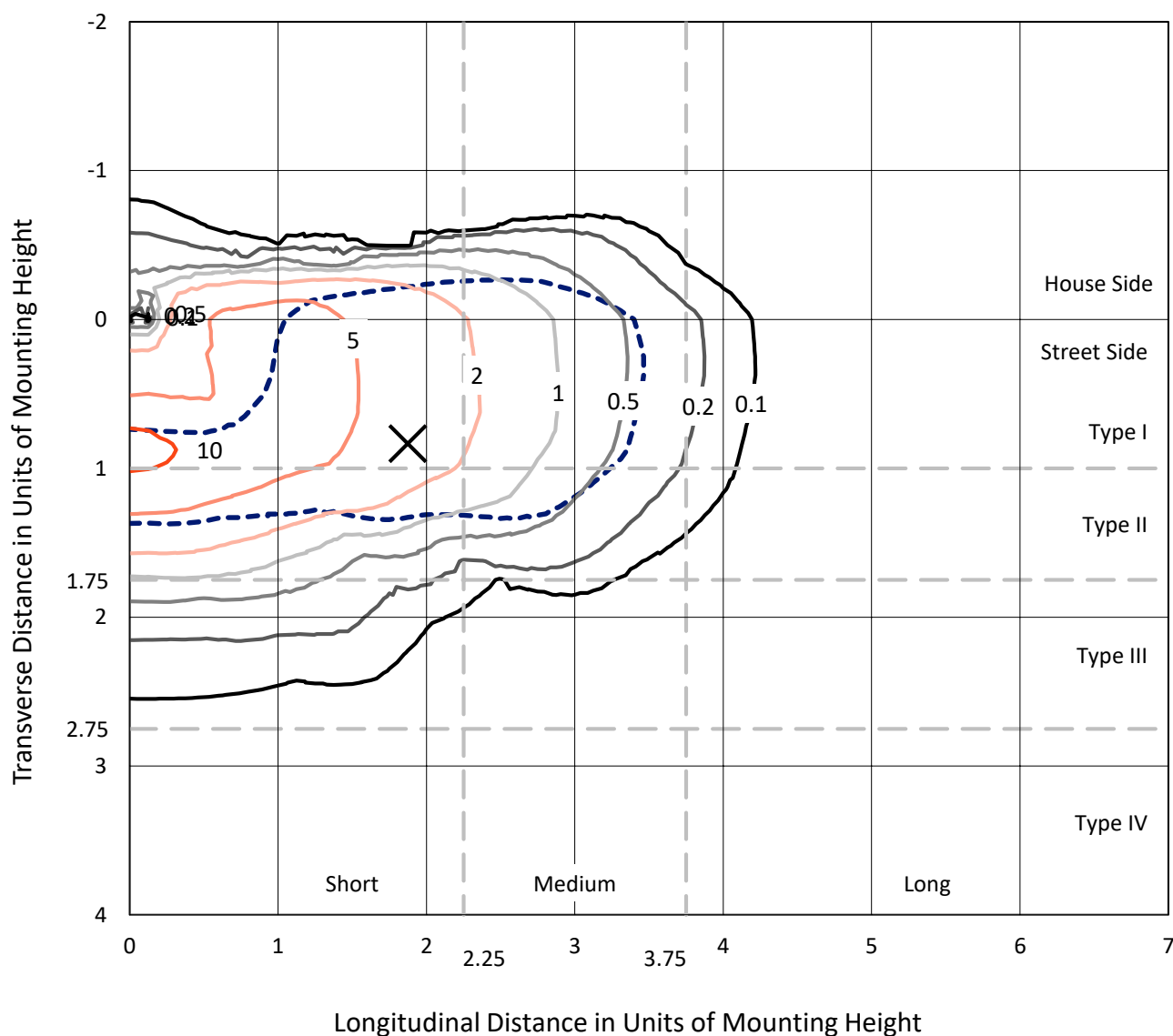
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

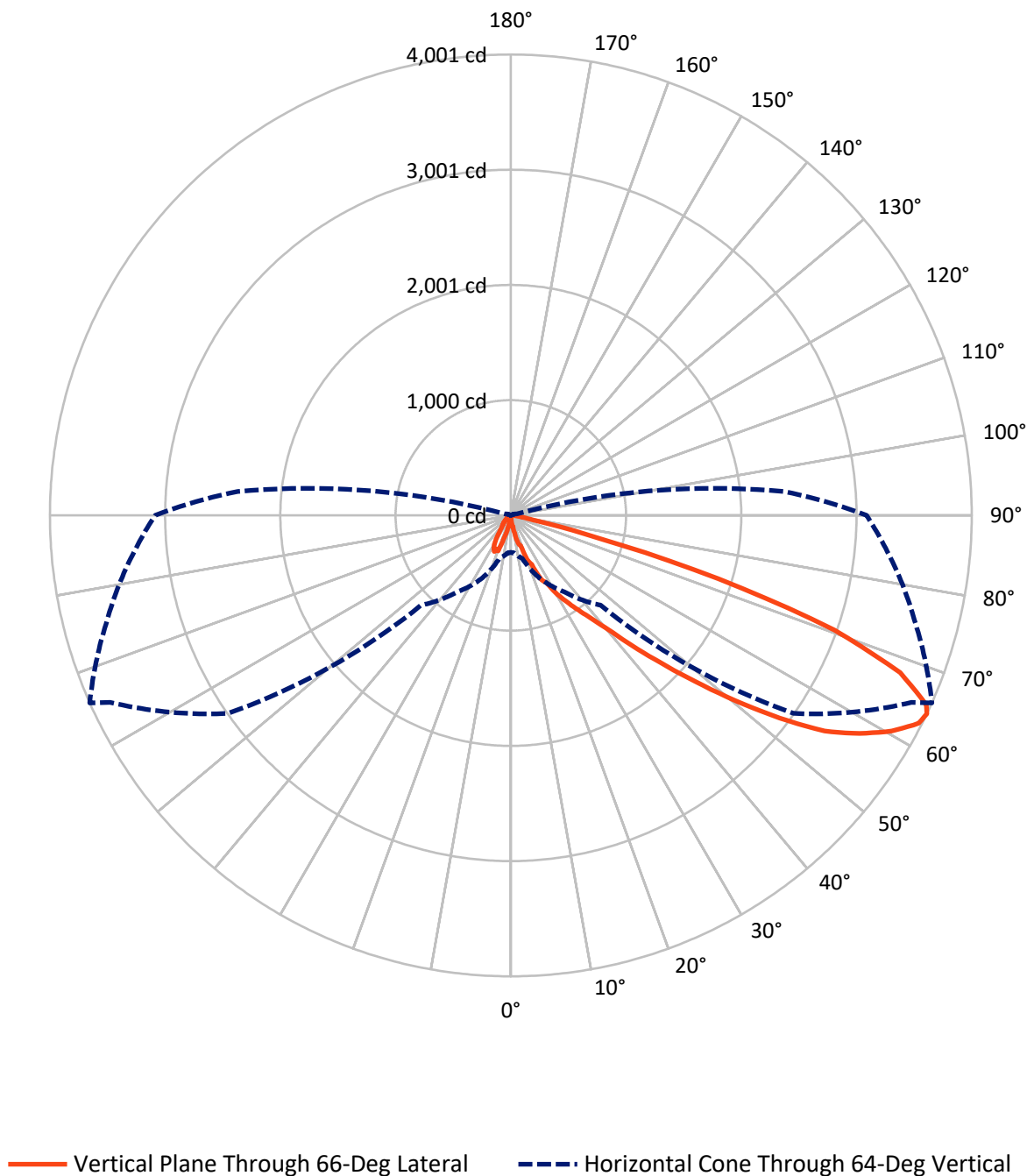


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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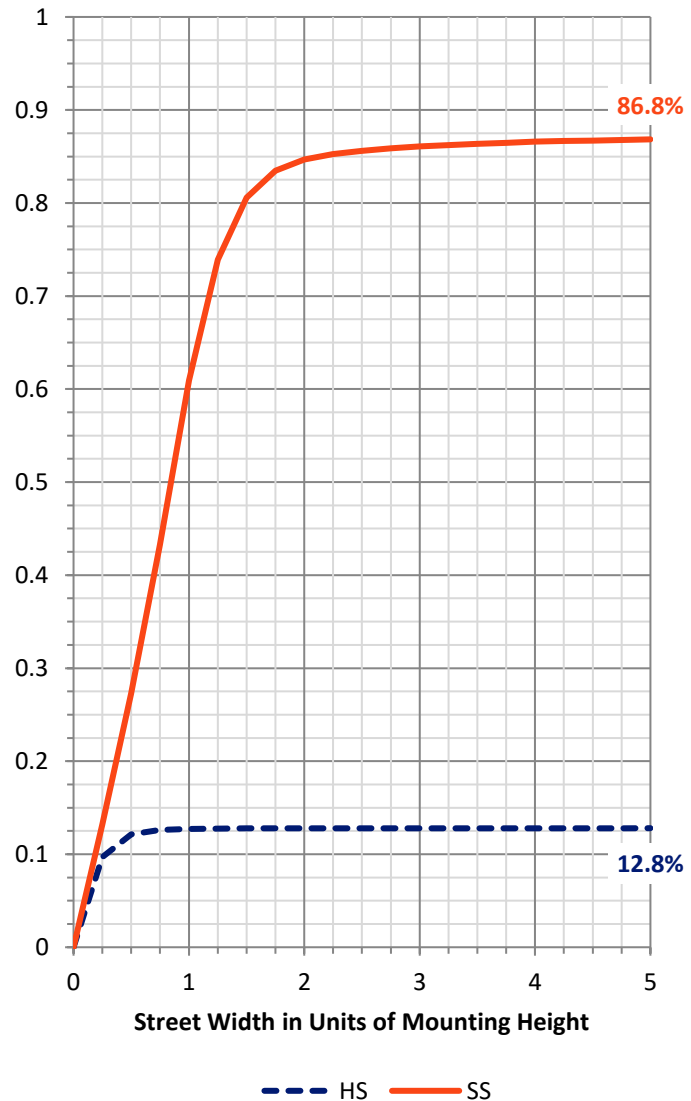
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.6	0.0	562.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3779.4	0.0	3779.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	4342.1	0.0	4342.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	56.7	1.3
20°-30°	176.1	4.1
30°-40°	442.3	10.2
40°-50°	959.3	22.1
50°-60°	1298.9	29.9
60°-70°	1021.0	23.5
70°-80°	361.1	8.3
80°-90°	21.7	0.5
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°	4342.1	100.0
0°-180°	4342.1	100.0

Coefficient of Utilization



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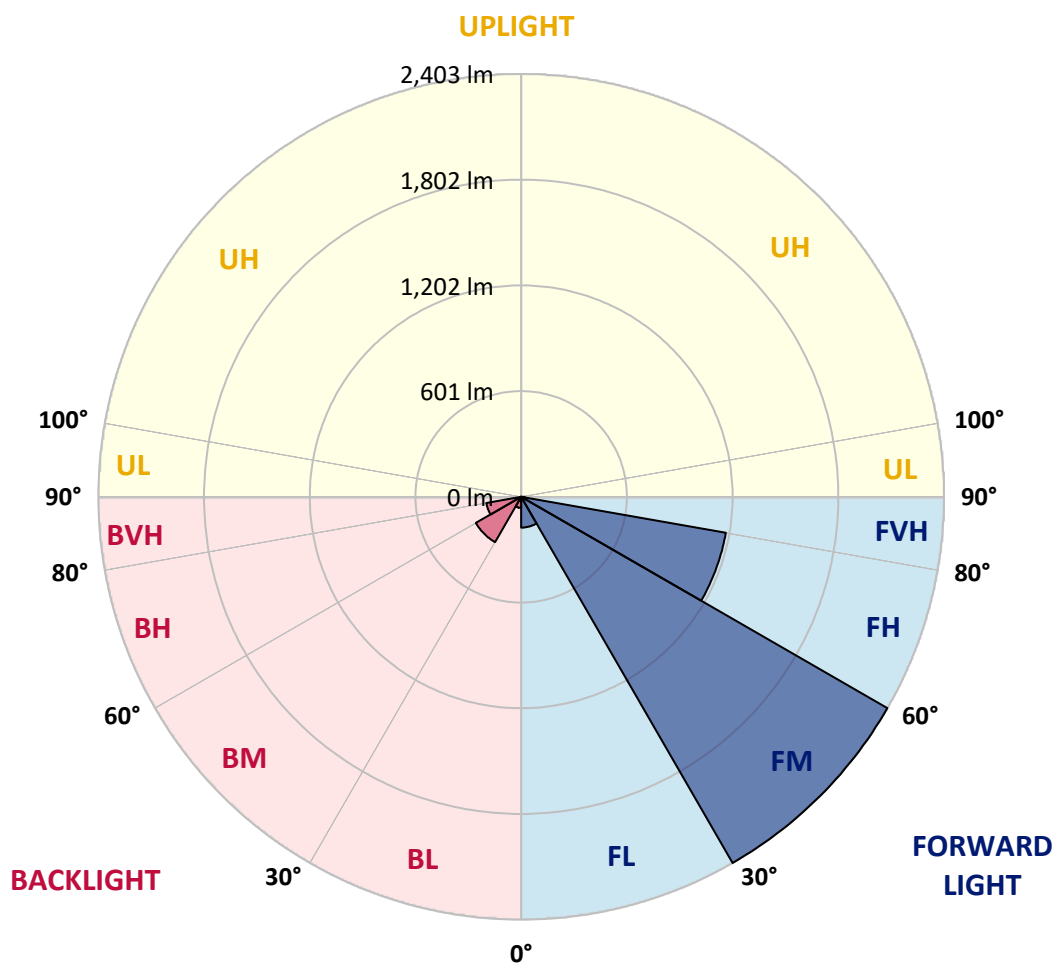
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.9	4.0			
FM	(30°-60°)	2403.2	55.3			
FH	(60°-80°)	1181.0	27.2			G1/1800
FVH	(80°-90°)	20.2	0.5			G1/100
BL	(0°-30°)	62.9	1.4	B0/110		
BM	(30°-60°)	297.2	6.8	B1/1000		
BH	(60°-80°)	201.1	4.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	16.1	15.5	13.1	10.3	3.7	2.2	0.0	0.0	0.0	0.0	0.0
5°	130.6	131.2	132.1	132.1	132.1	131.2	49.9	3.7	3.0	0.0	0.0
7.5°	126.8	127.6	127.6	127.6	128.3	128.3	128.3	124.0	101.9	2.2	0.0
10°	239.8	240.4	242.0	176.0	131.2	126.1	126.1	102.6	99.1	13.1	5.1
12.5°	236.2	236.9	238.3	239.0	240.4	159.9	133.5	183.3	195.8	254.4	166.5
15°	272.7	285.2	257.4	241.3	241.3	226.6	268.4	259.6	260.2	264.7	170.9
17.5°	357.0	356.4	359.3	362.2	264.7	332.2	348.4	272.0	275.1	308.7	313.9
20°	369.6	371.0	367.3	373.2	437.7	349.0	348.4	415.0	412.1	412.9	371.8
22.5°	503.1	504.5	509.6	423.1	457.5	431.8	454.6	463.4	463.4	434.2	437.7
25°	541.1	538.3	543.4	535.3	539.0	522.0	491.4	591.8	619.7	592.5	589.6
27.5°	751.6	745.0	729.7	596.8	586.7	554.3	647.5	663.6	664.3	659.1	683.4
30°	890.2	892.3	849.8	778.0	652.6	638.6	715.7	775.1	795.5	863.0	842.5
32.5°	1328.0	1300.7	1179.8	923.8	805.9	751.6	796.3	910.7	896.8	941.6	941.6
35°	1736.3	1688.8	1504.7	1245.1	943.0	837.4	945.9	981.0	1008.3	1046.3	1059.6
37.5°	2144.1	2125.0	1932.9	1580.2	1215.0	979.0	1067.6	1135.1	1132.1	1182.0	1207.7
40°	2506.4	2482.0	2355.3	1998.9	1539.1	1192.9	1239.2	1306.0	1300.7	1395.3	1430.6
42.5°	2776.1	2760.0	2677.0	2316.4	1939.5	1556.8	1495.9	1524.5	1542.7	1644.0	1679.9
45°	2923.5	2894.9	2870.8	2568.7	2287.8	1993.0	1835.3	1800.9	1822.9	1922.6	1947.5
47.5°	2892.0	2856.8	2891.3	2718.9	2594.2	2374.3	2282.7	2167.5	2151.4	2279.7	2232.7
50°	2645.6	2623.6	2730.7	2718.9	2770.3	2690.3	2788.6	2553.3	2527.6	2599.3	2517.3
52.5°	2209.3	2209.3	2374.9	2483.5	2767.3	2916.8	3229.9	2964.5	2922.7	2909.6	2733.6
55°	1760.6	1772.3	1927.8	2084.6	2526.0	2977.7	3598.8	3342.2	3305.6	3131.0	2896.3
57.5°	1273.6	1286.8	1509.1	1640.2	2071.4	2769.6	3739.6	3586.4	3571.8	3308.5	3046.7
60°	746.4	778.0	1013.4	1234.1	1495.9	2229.9	3683.9	3754.2	3801.2	3451.5	3156.6
62.5°	440.0	453.1	535.3	836.6	1033.9	1517.1	3378.9	3837.9	3974.2	3572.4	3242.4
64°	321.1	327.8	386.5	605.6	809.6	1102.1	2995.4	3837.9	4001.4	3637.6	3266.0
65°	262.6	265.4	306.5	484.6	684.9	843.2	2635.4	3805.6	3965.5	3669.9	3260.8
67.5°	213.3	215.6	225.8	277.1	471.5	463.4	1558.2	3520.4	3646.5	3705.1	3181.5
70°	192.1	194.4	211.9	216.3	348.4	308.7	502.3	2893.4	2978.5	3523.3	3012.9
72.5°	146.0	151.8	183.3	210.5	241.3	231.0	240.4	1784.0	1882.9	2683.0	2570.8
75°	99.7	105.6	136.5	178.9	186.3	173.8	181.1	684.9	767.1	1393.9	1550.8
77.5°	63.8	64.5	85.1	129.7	166.5	118.8	137.1	192.9	224.3	472.1	483.2
80°	41.9	43.3	51.4	82.9	113.6	99.1	84.4	104.2	105.6	139.2	74.1
82.5°	25.6	25.0	33.7	51.4	69.7	83.6	52.0	67.5	70.3	82.1	31.5
85°	11.0	11.8	21.3	33.0	43.3	40.3	32.2	41.1	42.5	54.3	18.3
87.5°	4.4	4.4	12.4	18.3	19.0	19.0	19.9	22.0	22.0	33.7	11.8
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	3.0	67.5	96.7	96.7
10°	5.1	4.4	0.0	0.7	0.7	33.7	107.7	107.7	105.6	104.2	103.3
12.5°	165.0	189.9	181.8	78.4	60.8	96.1	101.9	90.2	80.7	76.3	74.7
15°	197.3	196.5	191.3	155.4	217.7	97.6	77.8	93.9	80.7	69.7	69.7
17.5°	328.5	311.6	260.2	211.2	197.3	132.1	78.4	53.4	43.9	41.1	41.1
20°	390.9	383.4	335.1	325.5	180.4	108.5	54.9	36.7	41.9	46.9	46.9
22.5°	480.2	476.6	352.0	310.2	179.7	65.9	43.9	43.9	43.3	41.1	41.1
25°	577.2	580.8	496.5	328.5	122.4	54.9	45.5	38.1	33.7	36.7	37.4
27.5°	703.9	611.6	500.0	302.8	83.6	51.4	38.8	36.7	35.9	34.5	34.5
30°	847.6	827.9	640.1	252.2	63.8	46.3	36.7	32.2	28.6	30.1	30.1
32.5°	946.6	885.8	628.5	190.6	54.9	40.3	31.5	27.0	27.8	28.6	27.8
35°	1046.3	977.4	633.6	122.4	49.1	33.0	25.6	24.3	23.4	26.4	26.4
37.5°	1187.9	1100.7	624.1	77.0	41.1	27.0	22.0	21.3	22.0	22.7	22.7
40°	1361.7	1261.8	601.2	57.9	33.7	22.0	18.3	17.5	19.0	19.0	19.0
42.5°	1569.9	1437.8	541.9	50.6	28.6	17.5	14.6	14.6	16.1	16.1	16.1
45°	1818.4	1652.7	466.4	44.7	24.3	14.6	11.8	12.4	13.1	13.1	13.1
47.5°	2092.1	1888.9	370.3	38.8	20.5	11.8	9.5	9.5	10.3	10.3	10.3
50°	2344.9	2083.9	291.8	34.5	16.9	9.5	7.4	7.4	7.4	7.4	7.4
52.5°	2531.2	2212.3	212.7	30.1	14.6	7.4	5.1	5.1	5.1	5.1	5.1
55°	2683.0	2297.2	154.0	25.6	11.8	5.8	3.7	3.0	3.7	3.0	3.0
57.5°	2816.5	2350.9	110.8	21.3	9.5	3.7	1.4	1.4	1.4	1.4	1.4
60°	2937.5	2379.4	82.1	17.5	8.1	2.2	1.4	0.7	0.7	0.0	0.0
62.5°	3047.4	2389.8	62.3	14.0	6.6	1.4	0.7	0.0	0.0	0.0	0.0
64°	3087.7	2380.1	53.4	12.4	5.8	0.7	0.7	0.0	0.0	0.0	0.0
65°	3100.2	2357.4	48.4	11.0	5.1	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	3062.1	2254.0	35.9	8.9	4.4	0.7	0.7	0.0	0.0	0.0	0.0
70°	2913.3	2058.9	26.4	7.4	3.0	0.0	0.7	0.0	0.0	0.0	0.0
72.5°	2382.3	1554.4	19.0	5.8	3.0	0.0	0.7	0.0	0.0	0.0	0.0
75°	1430.6	655.6	14.0	4.4	3.0	0.0	1.4	0.0	0.0	0.0	0.0
77.5°	431.8	211.2	10.3	3.7	3.7	0.0	2.2	0.7	0.0	0.0	0.0
80°	57.9	31.5	5.8	3.0	3.7	0.0	3.0	0.7	0.0	0.0	0.0
82.5°	21.3	10.3	3.7	3.0	3.7	0.0	3.0	2.2	0.7	0.7	0.0
85°	8.1	5.8	3.0	2.2	4.4	0.0	3.7	2.2	0.7	0.7	0.0
87.5°	3.7	3.0	2.2	2.2	4.4	0.0	3.7	3.0	0.7	0.7	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)