

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: P239341

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T2U-7030-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 4840 lumens
Efficiency: N/A
Efficacy: 58.3 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): 83
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

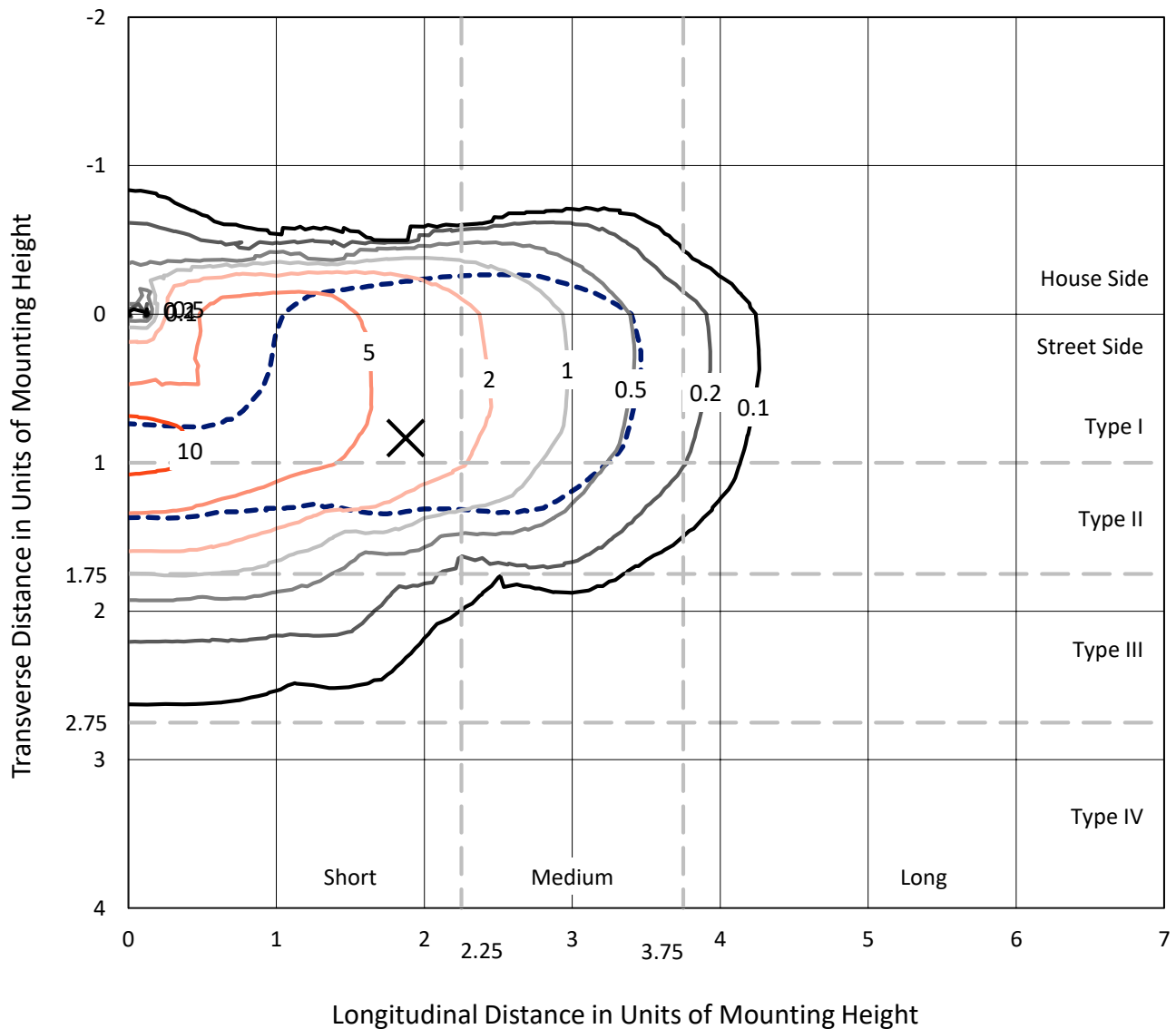


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

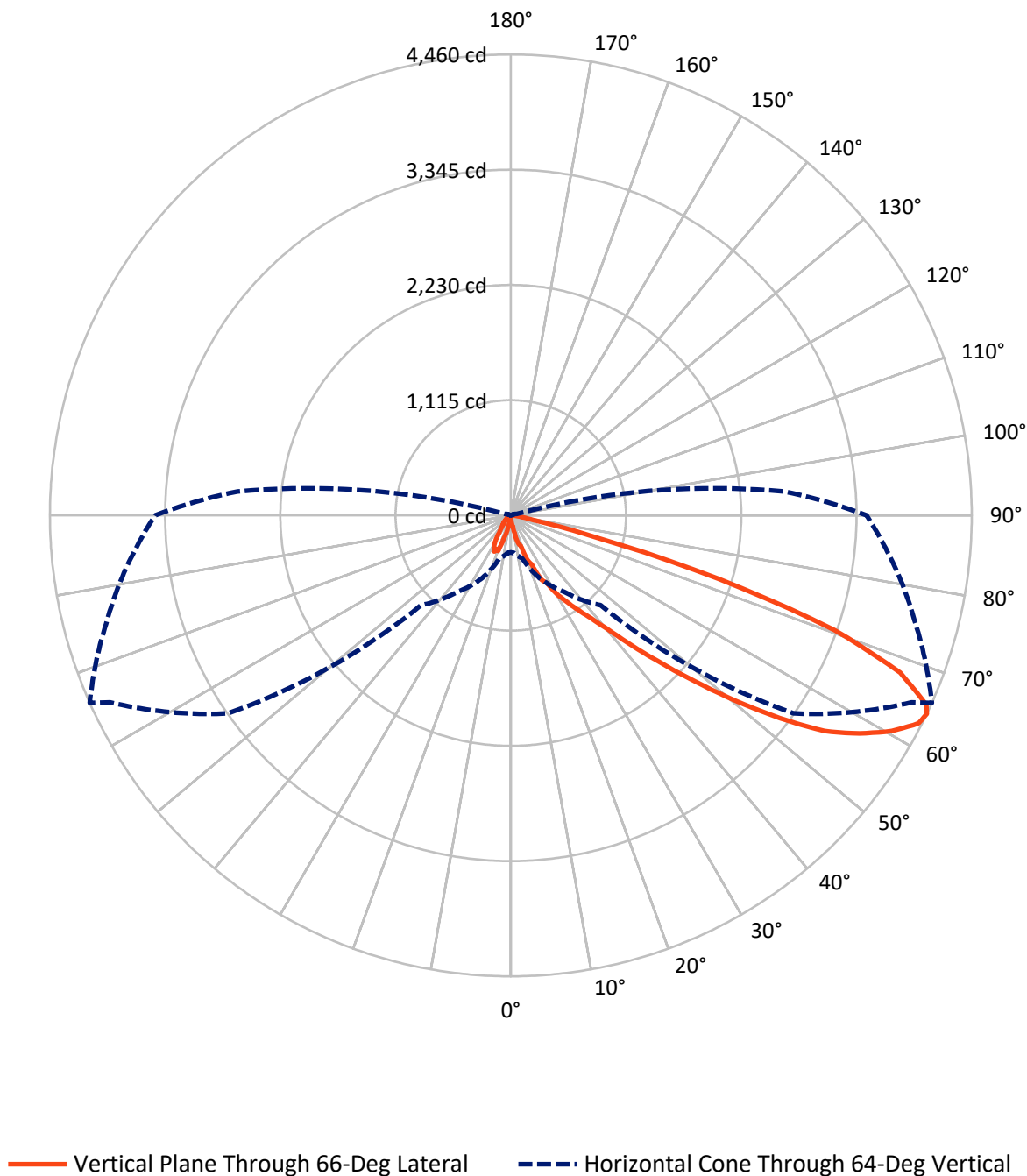


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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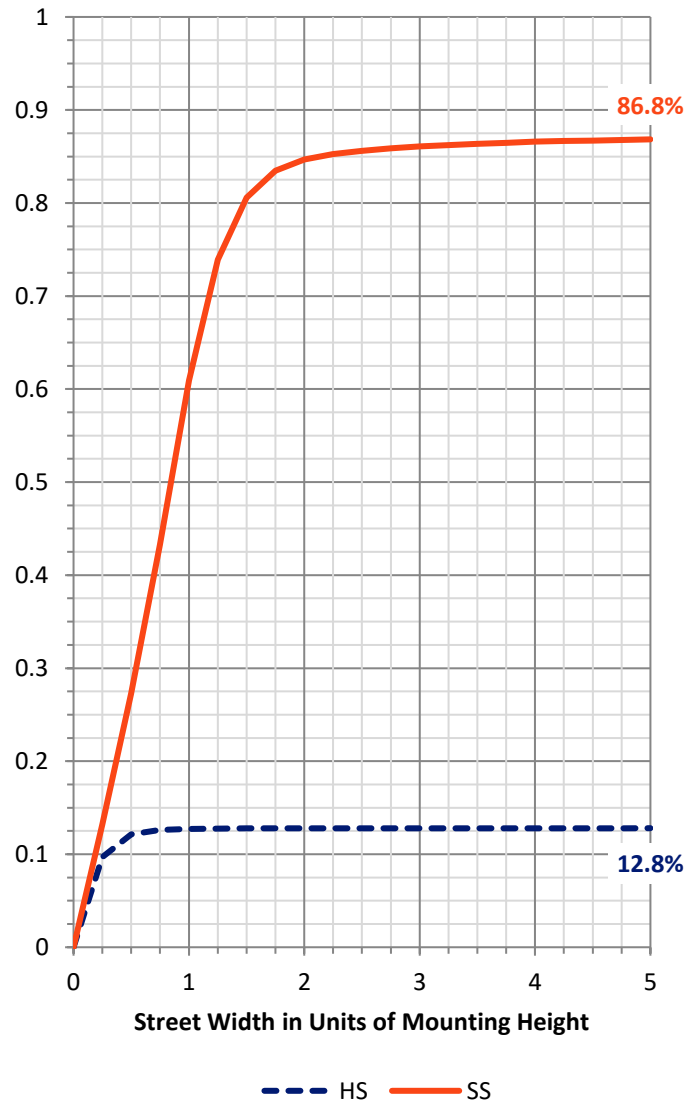
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	627.2	0.0	627.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4212.8	0.0	4212.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	4840.0	0.0	4840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	63.2	1.3
20°-30°	196.3	4.1
30°-40°	493.0	10.2
40°-50°	1069.3	22.1
50°-60°	1447.8	29.9
60°-70°	1138.1	23.5
70°-80°	402.5	8.3
80°-90°	24.2	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°	4840.0	100.0
0°-180°	4840.0	100.0

Coefficient of Utilization



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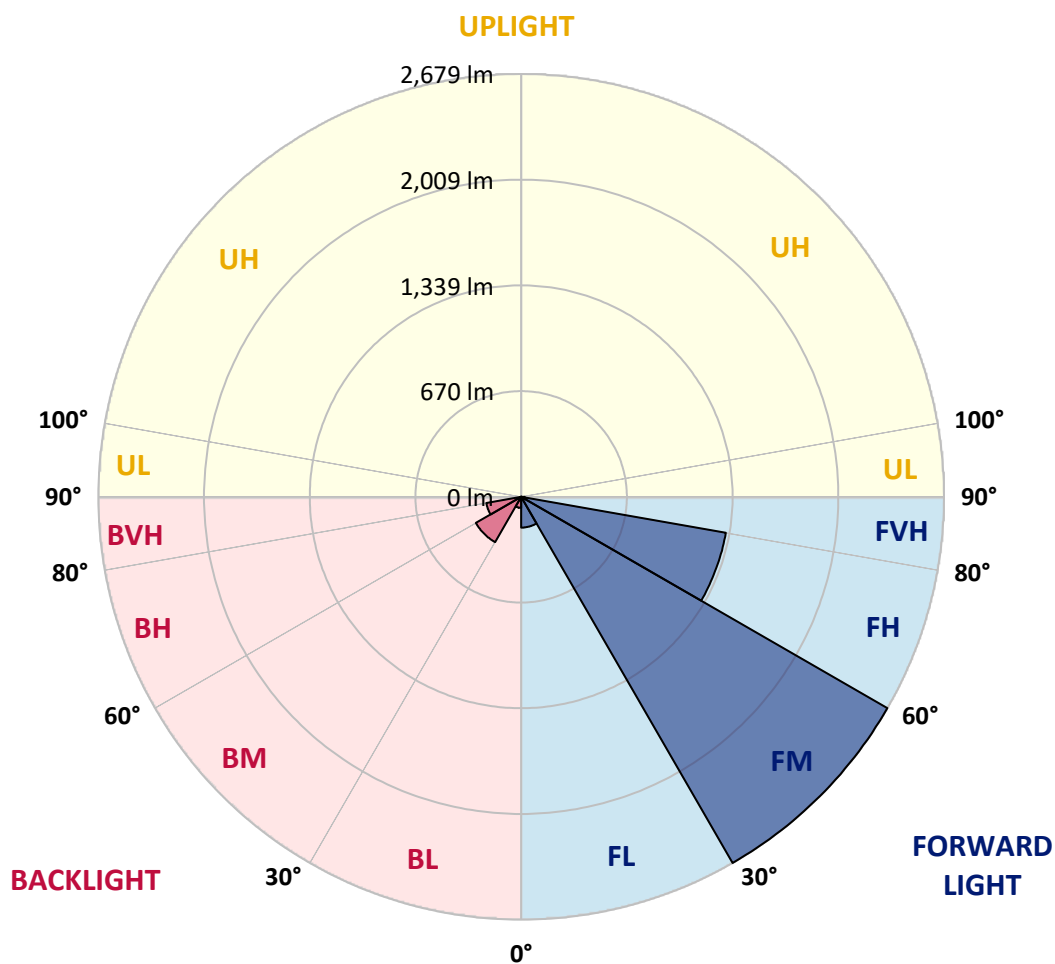
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.0	4.0			
FM	(30°-60°)	2678.8	55.3			
FH	(60°-80°)	1316.5	27.2			G1/1800
FVH	(80°-90°)	22.6	0.5			G1/100
BL	(0°-30°)	70.1	1.4	B0/110		
BM	(30°-60°)	331.3	6.8	B1/1000		
BH	(60°-80°)	224.1	4.6	B1/500		G1/500
BVH	(80°-90°)	1.7	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-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°	18.0	17.2	14.7	11.4	4.1	2.5	0.0	0.0	0.0	0.0	0.0
5°	145.5	146.3	147.1	147.1	147.1	146.3	55.6	4.1	3.3	0.0	0.0
7.5°	141.4	142.2	142.2	142.2	143.0	143.0	143.0	138.1	113.6	2.5	0.0
10°	267.3	268.1	269.7	196.2	146.3	140.6	140.6	114.4	110.3	14.7	5.7
12.5°	263.2	264.0	265.6	266.5	268.1	178.2	148.8	204.3	218.2	283.6	185.5
15°	304.1	317.9	286.9	268.9	268.9	252.6	299.1	289.3	290.2	295.1	190.4
17.5°	398.0	397.2	400.5	403.8	295.1	370.3	388.2	303.2	306.5	344.1	349.8
20°	411.9	413.6	409.5	416.0	488.0	389.1	388.2	462.6	459.3	460.2	414.4
22.5°	560.7	562.3	568.1	471.6	510.0	481.4	506.8	516.6	516.6	483.9	488.0
25°	603.2	599.9	605.7	596.7	600.7	581.9	547.6	659.6	690.7	660.4	657.1
27.5°	837.8	830.4	813.3	665.3	653.9	617.9	721.7	739.7	740.5	734.8	761.8
30°	992.3	994.7	947.3	867.2	727.4	711.9	797.7	863.9	886.8	962.0	939.1
32.5°	1480.2	1450.0	1315.1	1029.9	898.3	837.8	887.6	1015.1	999.6	1049.5	1049.5
35°	1935.5	1882.3	1677.2	1387.9	1051.1	933.4	1054.4	1093.6	1123.8	1166.4	1181.1
37.5°	2389.9	2368.7	2154.5	1761.4	1354.3	1091.2	1190.1	1265.2	1262.0	1317.6	1346.2
40°	2793.7	2766.7	2625.3	2228.1	1715.6	1329.8	1381.3	1455.7	1450.0	1555.4	1594.6
42.5°	3094.5	3076.5	2984.1	2582.0	2161.9	1735.2	1667.4	1699.3	1719.7	1832.5	1872.5
45°	3258.8	3226.9	3199.9	2863.2	2550.1	2221.5	2045.8	2007.4	2031.9	2143.1	2170.9
47.5°	3223.6	3184.4	3222.8	3030.7	2891.8	2646.6	2544.4	2416.1	2398.1	2541.1	2488.8
50°	2949.0	2924.5	3043.8	3030.7	3087.9	2998.8	3108.4	2846.0	2817.4	2897.5	2805.9
52.5°	2462.7	2462.7	2647.4	2768.3	3084.7	3251.4	3600.4	3304.5	3257.9	3243.2	3047.1
55°	1962.4	1975.5	2148.8	2323.7	2815.8	3319.2	4011.5	3725.5	3684.6	3490.1	3228.5
57.5°	1419.7	1434.4	1682.1	1828.4	2309.0	3087.1	4168.5	3997.6	3981.3	3687.9	3396.1
60°	832.1	867.2	1129.6	1375.6	1667.4	2485.5	4106.3	4184.8	4237.1	3847.2	3518.7
62.5°	490.4	505.1	596.7	932.6	1152.5	1691.1	3766.3	4278.0	4430.0	3982.1	3614.3
64°	358.0	365.4	430.7	675.1	902.3	1228.5	3338.9	4278.0	4460.2	4054.8	3640.5
65°	292.6	295.9	341.6	540.3	763.4	939.9	2937.5	4242.0	4420.2	4090.8	3634.7
67.5°	237.8	240.3	251.7	309.0	525.6	516.6	1736.9	3924.1	4064.7	4130.0	3546.5
70°	214.1	216.6	236.2	241.1	388.2	344.1	559.9	3225.2	3320.1	3927.3	3358.5
72.5°	162.7	169.2	204.3	234.6	268.9	257.5	268.1	1988.6	2098.9	2990.7	2865.6
75°	111.2	117.7	152.0	199.4	207.6	193.7	201.9	763.4	854.9	1553.8	1728.7
77.5°	71.1	71.9	94.8	144.7	185.5	132.4	152.8	215.0	250.1	526.4	538.6
80°	46.6	48.2	57.2	92.4	126.7	110.3	94.0	116.1	117.7	155.3	82.6
82.5°	28.6	27.8	37.6	57.2	77.6	93.2	58.0	75.2	78.5	91.5	35.1
85°	12.3	13.1	23.7	36.8	48.2	45.0	36.0	45.8	47.4	60.5	20.4
87.5°	4.9	4.9	13.9	20.4	21.3	21.3	22.1	24.5	24.5	37.6	13.1
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°	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	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	3.3	75.2	107.9	107.9
10°	5.7	4.9	0.0	0.8	0.8	37.6	120.1	120.1	117.7	116.1	115.2
12.5°	183.9	211.7	202.7	87.5	67.8	107.1	113.6	100.5	89.9	85.0	83.4
15°	219.9	219.0	213.3	173.3	242.8	108.7	86.6	104.6	89.9	77.6	77.6
17.5°	366.2	347.4	290.2	235.4	219.9	147.1	87.5	59.7	49.0	45.8	45.8
20°	435.6	427.5	373.5	362.9	201.1	121.0	61.3	40.9	46.6	52.3	52.3
22.5°	535.4	531.3	392.3	345.7	200.2	73.6	49.0	49.0	48.2	45.8	45.8
25°	643.2	647.3	553.3	366.2	136.5	61.3	50.7	42.5	37.6	40.9	41.7
27.5°	784.7	681.7	557.4	337.6	93.2	57.2	43.3	40.9	40.0	38.4	38.4
30°	944.8	922.8	713.5	281.2	71.1	51.5	40.9	36.0	31.9	33.5	33.5
32.5°	1055.2	987.4	700.5	212.5	61.3	45.0	35.1	30.2	31.1	31.9	31.1
35°	1166.4	1089.5	706.2	136.5	54.8	36.8	28.6	27.0	26.2	29.4	29.4
37.5°	1324.1	1226.8	695.6	85.8	45.8	30.2	24.5	23.7	24.5	25.3	25.3
40°	1517.8	1406.6	670.2	64.6	37.6	24.5	20.4	19.6	21.3	21.3	21.3
42.5°	1749.9	1602.8	604.0	56.4	31.9	19.6	16.3	16.3	18.0	18.0	18.0
45°	2027.0	1842.3	519.8	49.9	27.0	16.3	13.1	13.9	14.7	14.7	14.7
47.5°	2331.9	2105.5	412.8	43.3	22.9	13.1	10.6	10.6	11.4	11.4	11.4
50°	2613.9	2322.9	325.3	38.4	18.8	10.6	8.2	8.2	8.2	8.2	8.2
52.5°	2821.5	2465.9	237.0	33.5	16.3	8.2	5.7	5.7	5.7	5.7	5.7
55°	2990.7	2560.7	171.6	28.6	13.1	6.5	4.1	3.3	4.1	3.3	3.3
57.5°	3139.4	2620.4	123.4	23.7	10.6	4.1	1.6	1.6	1.6	1.6	1.6
60°	3274.3	2652.3	91.5	19.6	9.0	2.5	1.6	0.8	0.8	0.0	0.0
62.5°	3396.9	2663.7	69.5	15.5	7.4	1.6	0.8	0.0	0.0	0.0	0.0
64°	3441.8	2653.1	59.7	13.9	6.5	0.8	0.8	0.0	0.0	0.0	0.0
65°	3455.7	2627.8	53.9	12.3	5.7	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	3413.2	2512.5	40.0	9.8	4.9	0.8	0.8	0.0	0.0	0.0	0.0
70°	3247.3	2295.1	29.4	8.2	3.3	0.0	0.8	0.0	0.0	0.0	0.0
72.5°	2655.6	1732.8	21.3	6.5	3.3	0.0	0.8	0.0	0.0	0.0	0.0
75°	1594.6	730.7	15.5	4.9	3.3	0.0	1.6	0.0	0.0	0.0	0.0
77.5°	481.4	235.4	11.4	4.1	4.1	0.0	2.5	0.8	0.0	0.0	0.0
80°	64.6	35.1	6.5	3.3	4.1	0.0	3.3	0.8	0.0	0.0	0.0
82.5°	23.7	11.4	4.1	3.3	4.1	0.0	3.3	2.5	0.8	0.8	0.0
85°	9.0	6.5	3.3	2.5	4.9	0.0	4.1	2.5	0.8	0.8	0.0
87.5°	4.1	3.3	2.5	2.5	4.9	0.0	4.1	3.3	0.8	0.8	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)