

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: P239340

Luminaire Tested: **UTLD-AF24-70-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239340
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-AF24-70-D-U-T2U-7030-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 4424 lumens
Efficiency: N/A
Efficacy: 59.8 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



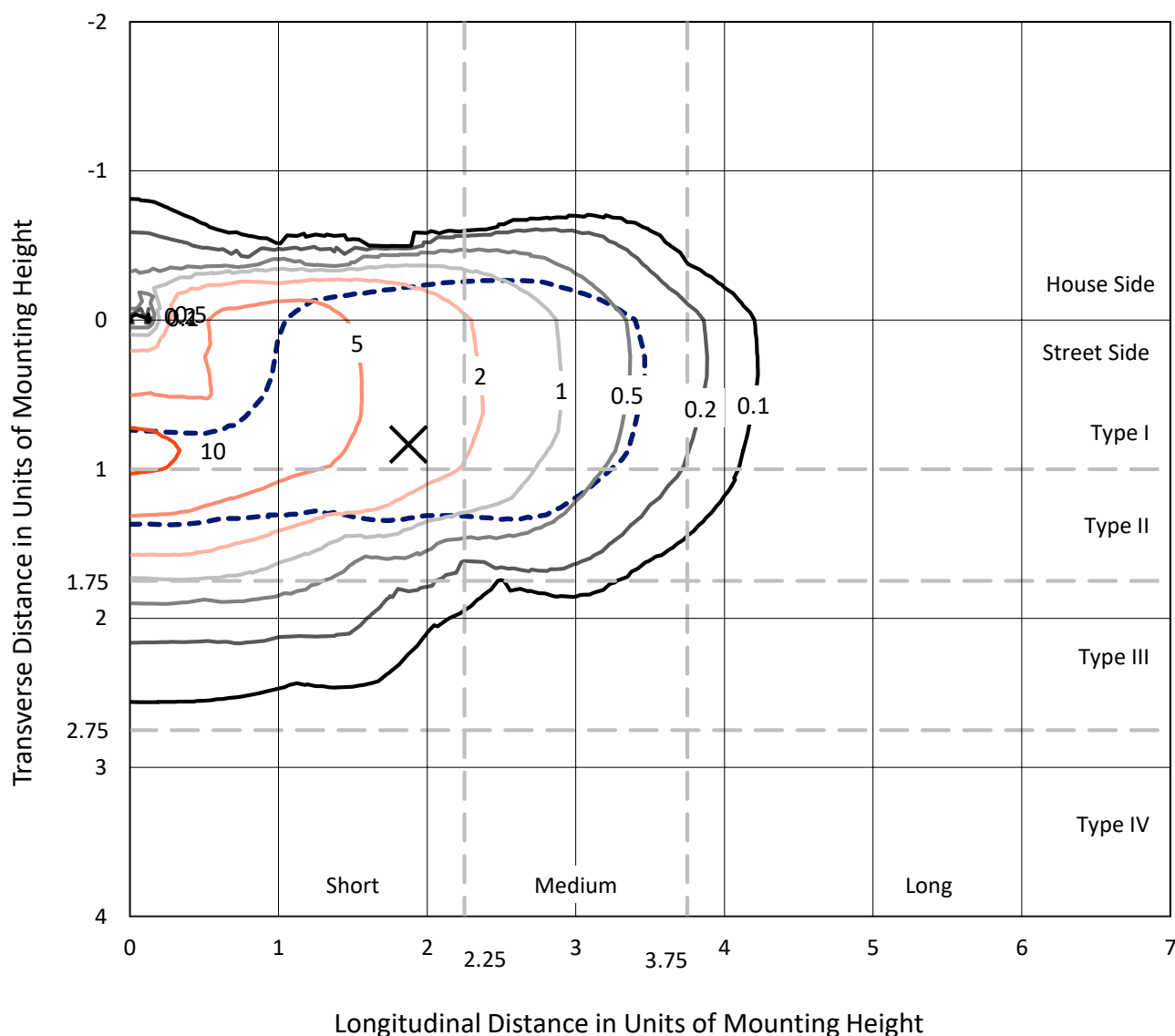
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

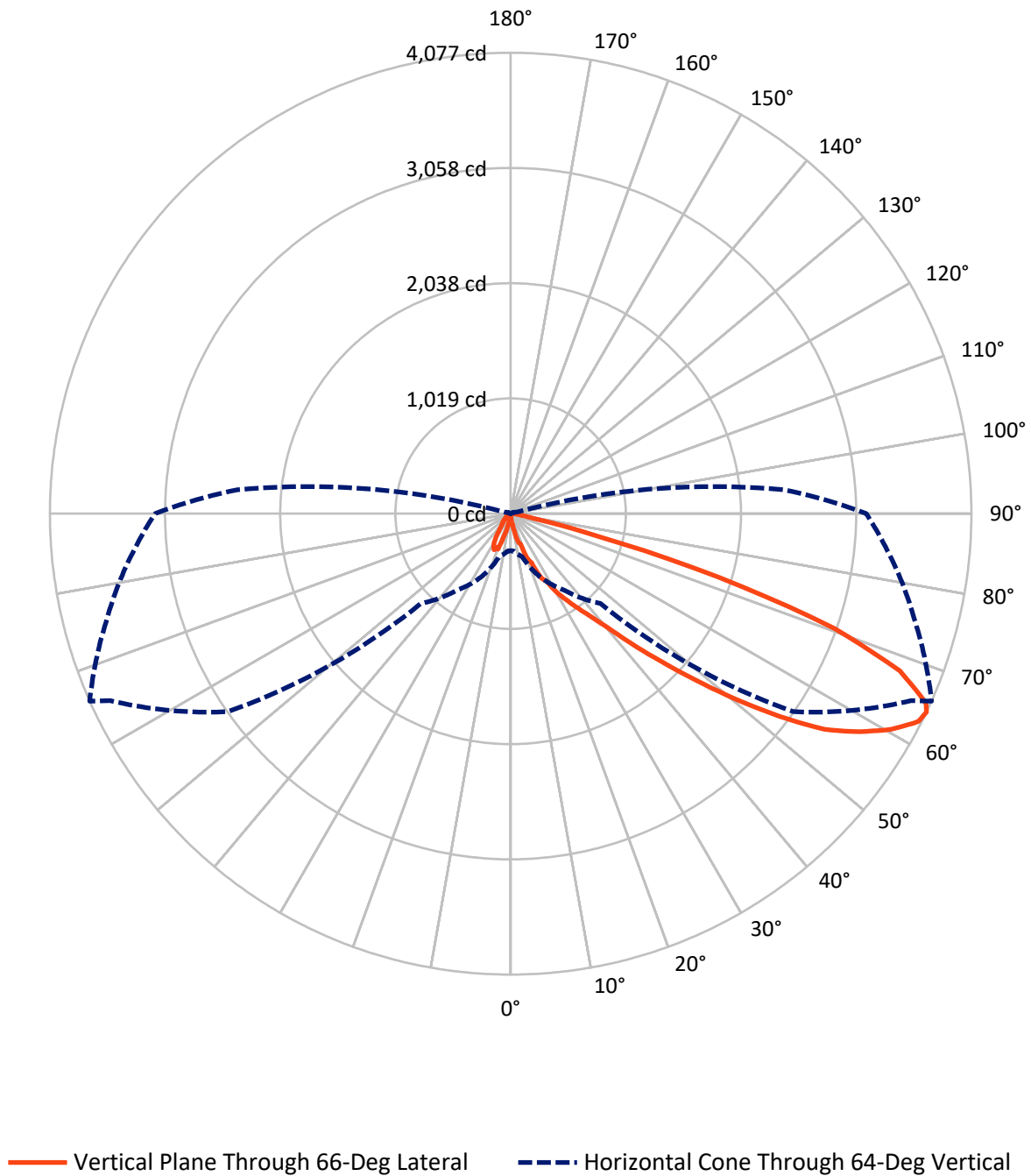


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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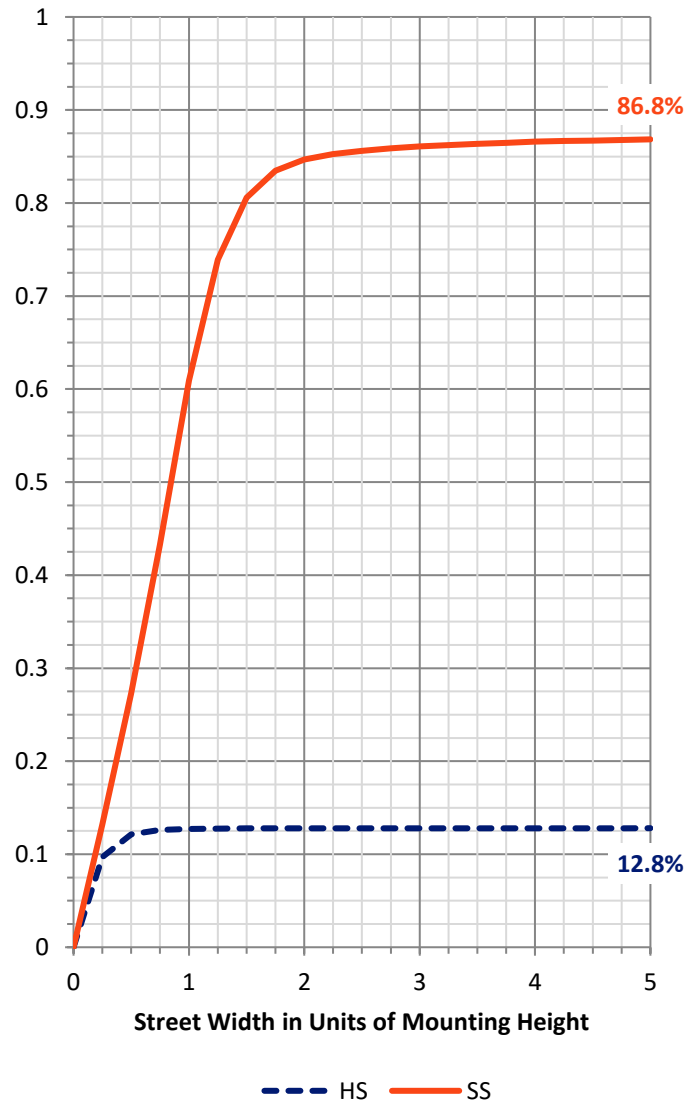
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.2	0.0	573.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3850.7	0.0	3850.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	4424.0	0.0	4424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	57.8	1.3
20°-30°	179.5	4.1
30°-40°	450.6	10.2
40°-50°	977.4	22.1
50°-60°	1323.4	29.9
60°-70°	1040.3	23.5
70°-80°	367.9	8.3
80°-90°	22.1	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°	4424.0	100.0
0°-180°	4424.0	100.0

Coefficient of Utilization



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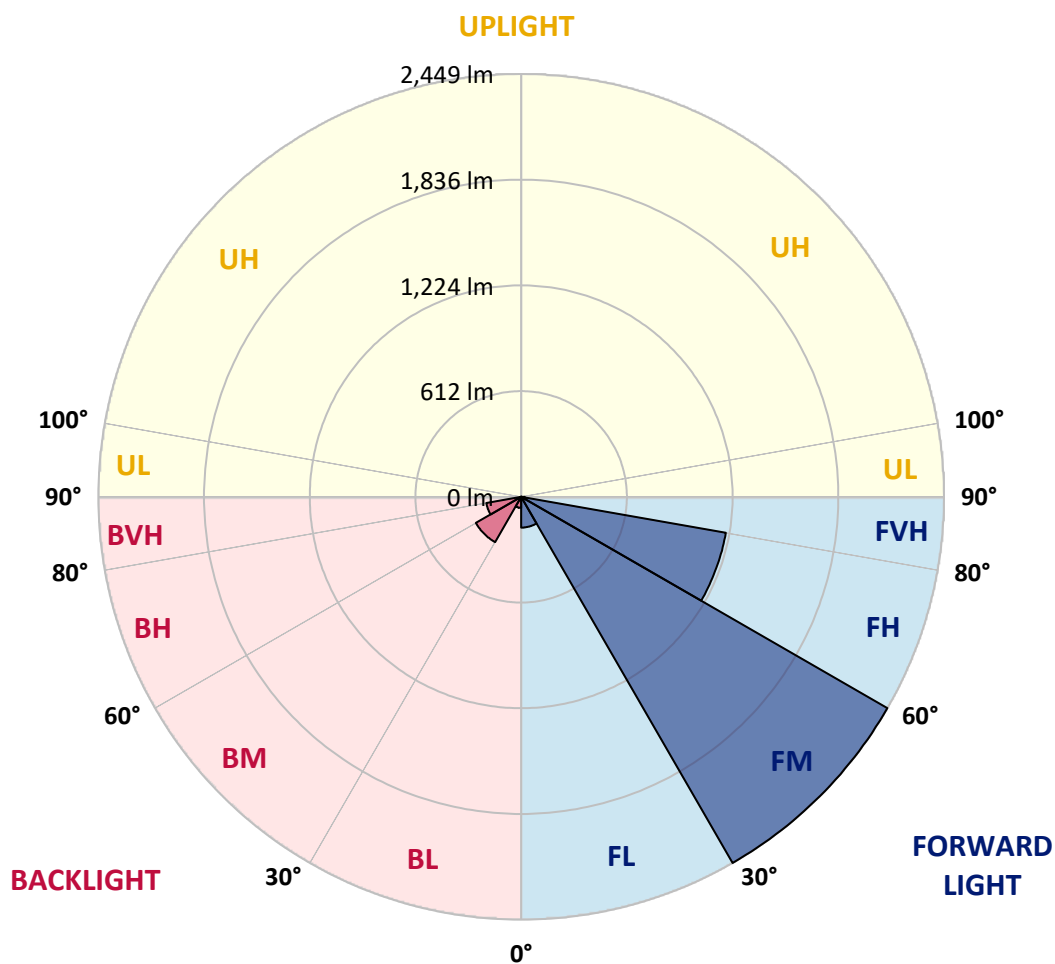
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.2	4.0			
FM	(30°-60°)	2448.6	55.3			
FH	(60°-80°)	1203.3	27.2			G1/1800
FVH	(80°-90°)	20.6	0.5			G1/100
BL	(0°-30°)	64.0	1.4	B0/110		
BM	(30°-60°)	302.8	6.8	B1/1000		
BH	(60°-80°)	204.9	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°	16.4	15.7	13.4	10.5	3.7	2.2	0.0	0.0	0.0	0.0	0.0
5°	133.0	133.7	134.5	134.5	134.5	133.7	50.8	3.7	3.0	0.0	0.0
7.5°	129.2	130.0	130.0	130.0	130.7	130.7	130.7	126.3	103.8	2.2	0.0
10°	244.3	245.0	246.5	179.3	133.7	128.5	128.5	104.6	100.9	13.4	5.2
12.5°	240.6	241.3	242.8	243.6	245.0	162.9	136.0	186.8	199.5	259.2	169.6
15°	277.9	290.6	262.2	245.8	245.8	230.9	273.4	264.5	265.2	269.7	174.1
17.5°	363.8	363.1	366.1	369.1	269.7	338.4	354.9	277.2	280.2	314.5	319.8
20°	376.5	378.0	374.3	380.3	446.0	355.6	354.9	422.9	419.9	420.6	378.8
22.5°	512.5	514.0	519.2	431.1	466.2	440.0	463.2	472.2	472.2	442.3	446.0
25°	551.4	548.4	553.6	545.4	549.1	531.9	500.6	602.9	631.3	603.7	600.7
27.5°	765.8	759.0	743.4	608.1	597.7	564.8	659.7	676.1	676.9	671.6	696.3
30°	907.0	909.2	865.9	792.7	664.9	650.7	729.2	789.7	810.6	879.3	858.4
32.5°	1353.0	1325.3	1202.1	941.3	821.1	765.8	811.3	927.9	913.7	959.3	959.3
35°	1769.1	1720.6	1533.0	1268.6	960.8	853.2	963.8	999.6	1027.3	1066.1	1079.5
37.5°	2184.5	2165.1	1969.3	1610.0	1237.9	997.4	1087.8	1156.5	1153.5	1204.3	1230.5
40°	2553.6	2528.9	2399.7	2036.6	1568.1	1215.5	1262.6	1330.6	1325.3	1421.7	1457.6
42.5°	2828.5	2812.1	2727.6	2360.1	1976.1	1586.1	1524.1	1553.2	1571.9	1675.0	1711.6
45°	2978.7	2949.5	2924.9	2617.1	2330.9	2030.6	1870.0	1834.9	1857.3	1958.9	1984.3
47.5°	2946.5	2910.7	2945.8	2770.2	2643.2	2419.1	2325.7	2208.4	2192.0	2322.7	2274.9
50°	2695.5	2673.1	2782.2	2770.2	2822.5	2741.1	2841.2	2601.4	2575.2	2648.4	2564.8
52.5°	2251.0	2251.0	2419.8	2530.4	2819.5	2971.9	3290.9	3020.5	2977.9	2964.5	2785.2
55°	1793.8	1805.7	1964.1	2124.0	2573.7	3033.9	3666.7	3405.3	3367.9	3190.1	2951.0
57.5°	1297.7	1311.1	1537.5	1671.2	2110.5	2821.8	3810.2	3654.0	3639.1	3370.9	3104.2
60°	760.5	792.7	1032.5	1257.4	1524.1	2271.9	3753.4	3825.1	3872.9	3516.6	3216.2
62.5°	448.3	461.7	545.4	852.4	1053.4	1545.7	3442.6	3910.3	4049.2	3639.8	3303.6
64°	327.2	334.0	393.7	617.1	824.8	1122.9	3051.9	3910.3	4076.9	3706.3	3327.6
65°	267.5	270.4	312.3	493.8	697.8	859.2	2685.1	3877.4	4040.3	3739.2	3322.3
67.5°	217.4	219.6	230.1	282.4	480.4	472.2	1587.6	3586.8	3715.3	3775.1	3241.6
70°	195.7	198.0	215.9	220.4	354.9	314.5	511.8	2948.0	3034.7	3589.8	3069.8
72.5°	148.7	154.6	186.8	214.4	245.8	235.3	245.0	1817.7	1918.5	2733.6	2619.3
75°	101.6	107.6	139.0	182.3	189.8	177.1	184.5	697.8	781.5	1420.2	1580.1
77.5°	65.0	65.7	86.7	132.2	169.6	121.0	139.7	196.5	228.6	481.1	492.3
80°	42.6	44.1	52.3	84.4	115.8	100.9	85.9	106.1	107.6	141.9	75.5
82.5°	26.1	25.4	34.4	52.3	71.0	85.2	53.0	68.7	71.7	83.7	32.1
85°	11.2	12.0	21.7	33.6	44.1	41.1	32.9	41.8	43.3	55.3	18.7
87.5°	4.5	4.5	12.7	18.7	19.4	19.4	20.2	22.4	22.4	34.4	12.0
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	68.7	98.6	98.6
10°	5.2	4.5	0.0	0.7	0.7	34.4	109.8	109.8	107.6	106.1	105.3
12.5°	168.1	193.5	185.3	79.9	62.0	97.9	103.8	91.9	82.2	77.7	76.2
15°	201.0	200.2	195.0	158.4	221.9	99.4	79.2	95.6	82.2	71.0	71.0
17.5°	334.7	317.5	265.2	215.2	201.0	134.5	79.9	54.5	44.8	41.8	41.8
20°	398.2	390.7	341.4	331.7	183.8	110.6	56.0	37.4	42.6	47.8	47.8
22.5°	489.3	485.6	358.6	316.0	183.0	67.2	44.8	44.8	44.1	41.8	41.8
25°	588.0	591.7	505.8	334.7	124.8	56.0	46.3	38.8	34.4	37.4	38.1
27.5°	717.2	623.1	509.5	308.5	85.2	52.3	39.6	37.4	36.6	35.1	35.1
30°	863.6	843.5	652.2	257.0	65.0	47.1	37.4	32.9	29.1	30.6	30.6
32.5°	964.5	902.5	640.3	194.2	56.0	41.1	32.1	27.6	28.4	29.1	28.4
35°	1066.1	995.9	645.5	124.8	50.1	33.6	26.1	24.7	23.9	26.9	26.9
37.5°	1210.3	1121.4	635.8	78.4	41.8	27.6	22.4	21.7	22.4	23.2	23.2
40°	1387.4	1285.7	612.6	59.0	34.4	22.4	18.7	17.9	19.4	19.4	19.4
42.5°	1599.5	1465.0	552.1	51.5	29.1	17.9	14.9	14.9	16.4	16.4	16.4
45°	1852.8	1683.9	475.2	45.6	24.7	14.9	12.0	12.7	13.4	13.4	13.4
47.5°	2131.5	1924.5	377.3	39.6	20.9	12.0	9.7	9.7	10.5	10.5	10.5
50°	2389.2	2123.2	297.3	35.1	17.2	9.7	7.5	7.5	7.5	7.5	7.5
52.5°	2579.0	2254.0	216.7	30.6	14.9	7.5	5.2	5.2	5.2	5.2	5.2
55°	2733.6	2340.6	156.9	26.1	12.0	6.0	3.7	3.0	3.7	3.0	3.0
57.5°	2869.6	2395.2	112.8	21.7	9.7	3.7	1.5	1.5	1.5	1.5	1.5
60°	2992.9	2424.3	83.7	17.9	8.2	2.2	1.5	0.7	0.7	0.0	0.0
62.5°	3104.9	2434.8	63.5	14.2	6.7	1.5	0.7	0.0	0.0	0.0	0.0
64°	3146.0	2425.1	54.5	12.7	6.0	0.7	0.7	0.0	0.0	0.0	0.0
65°	3158.7	2401.9	49.3	11.2	5.2	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	3119.9	2296.6	36.6	9.0	4.5	0.7	0.7	0.0	0.0	0.0	0.0
70°	2968.2	2097.8	26.9	7.5	3.0	0.0	0.7	0.0	0.0	0.0	0.0
72.5°	2427.3	1583.8	19.4	6.0	3.0	0.0	0.7	0.0	0.0	0.0	0.0
75°	1457.6	667.9	14.2	4.5	3.0	0.0	1.5	0.0	0.0	0.0	0.0
77.5°	440.0	215.2	10.5	3.7	3.7	0.0	2.2	0.7	0.0	0.0	0.0
80°	59.0	32.1	6.0	3.0	3.7	0.0	3.0	0.7	0.0	0.0	0.0
82.5°	21.7	10.5	3.7	3.0	3.7	0.0	3.0	2.2	0.7	0.7	0.0
85°	8.2	6.0	3.0	2.2	4.5	0.0	3.7	2.2	0.7	0.7	0.0
87.5°	3.7	3.0	2.2	2.2	4.5	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)