

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: P239350

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239350
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-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 5468 lumens
Efficiency: N/A
Efficacy: 65.9 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

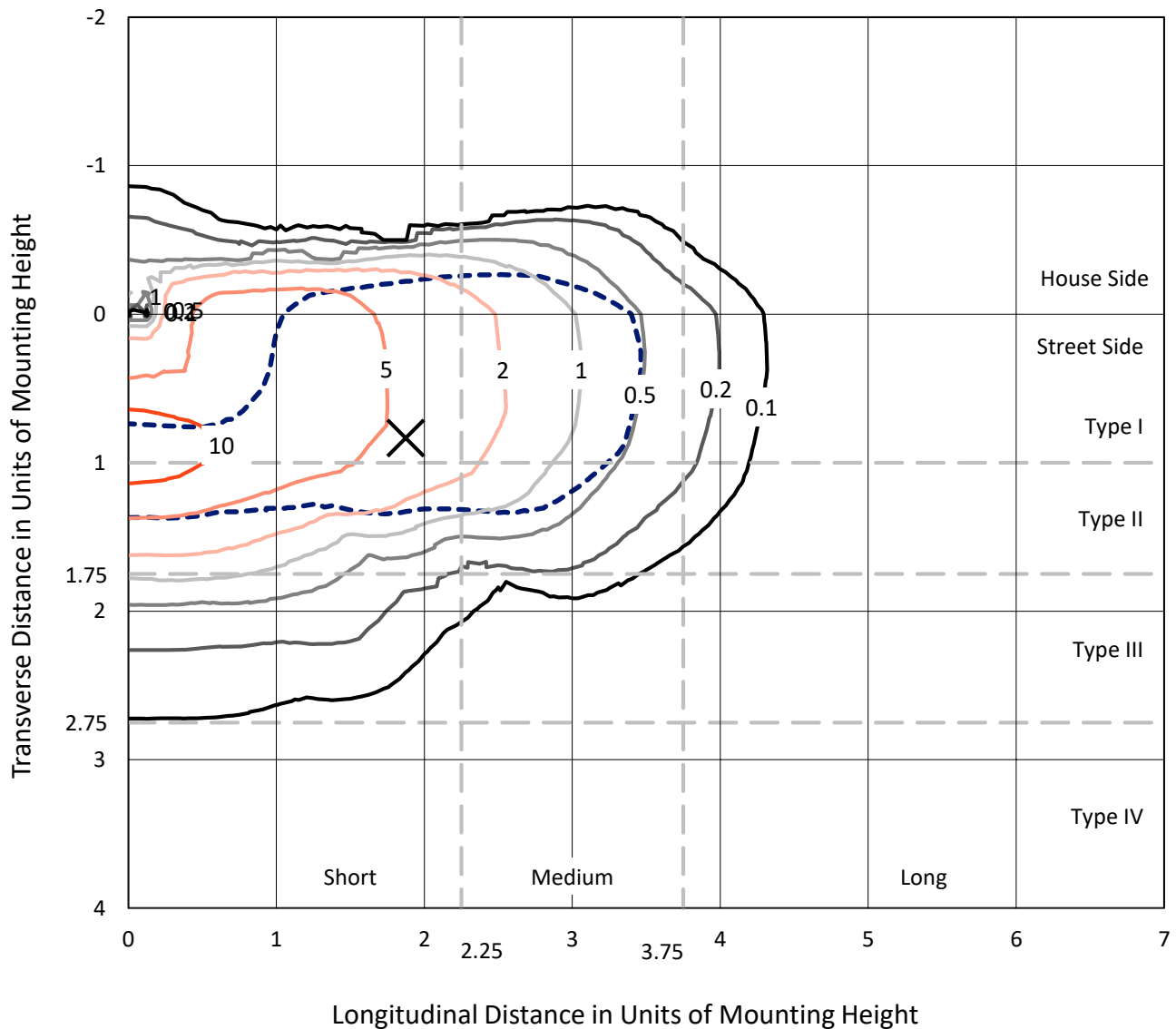


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

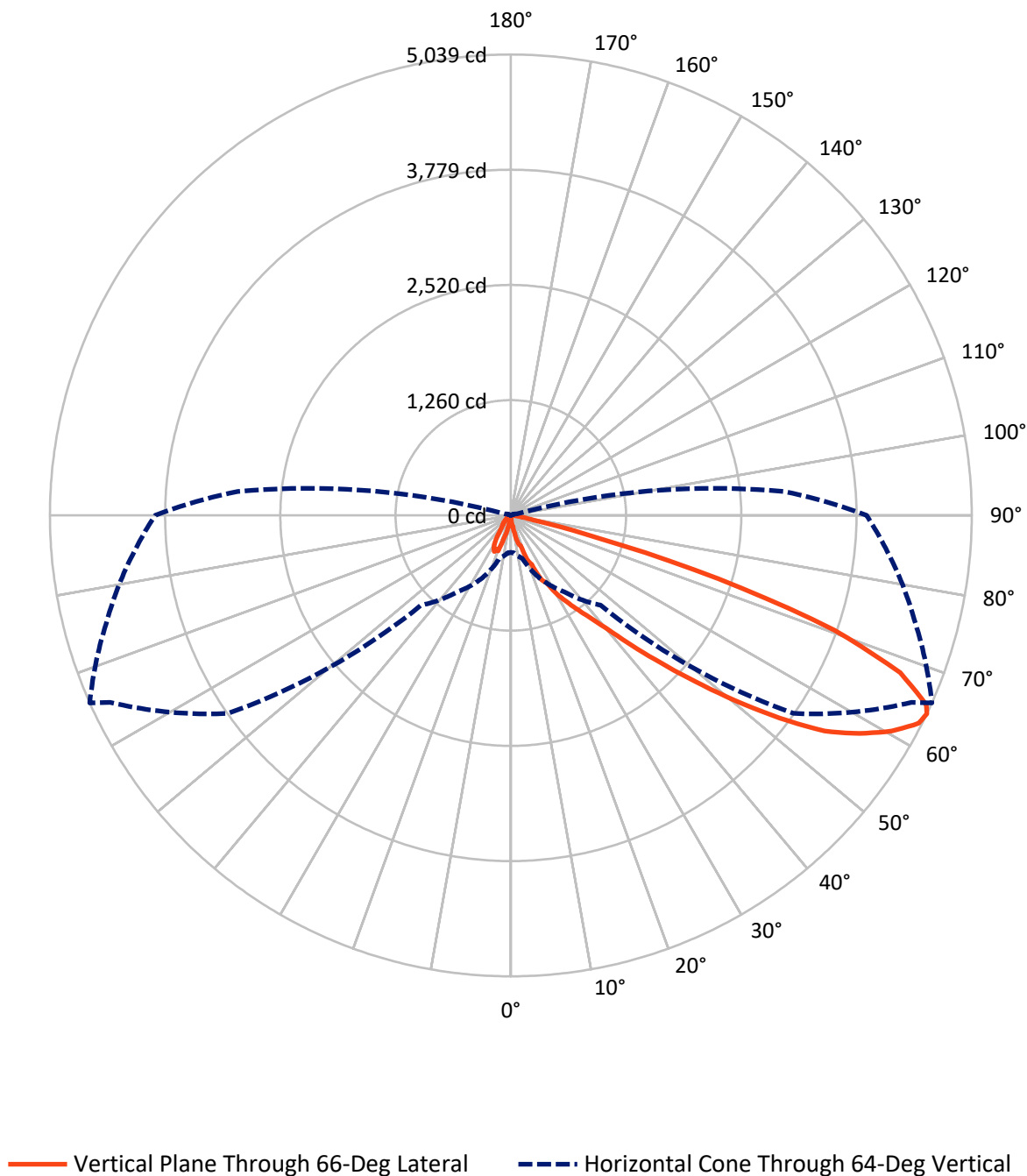


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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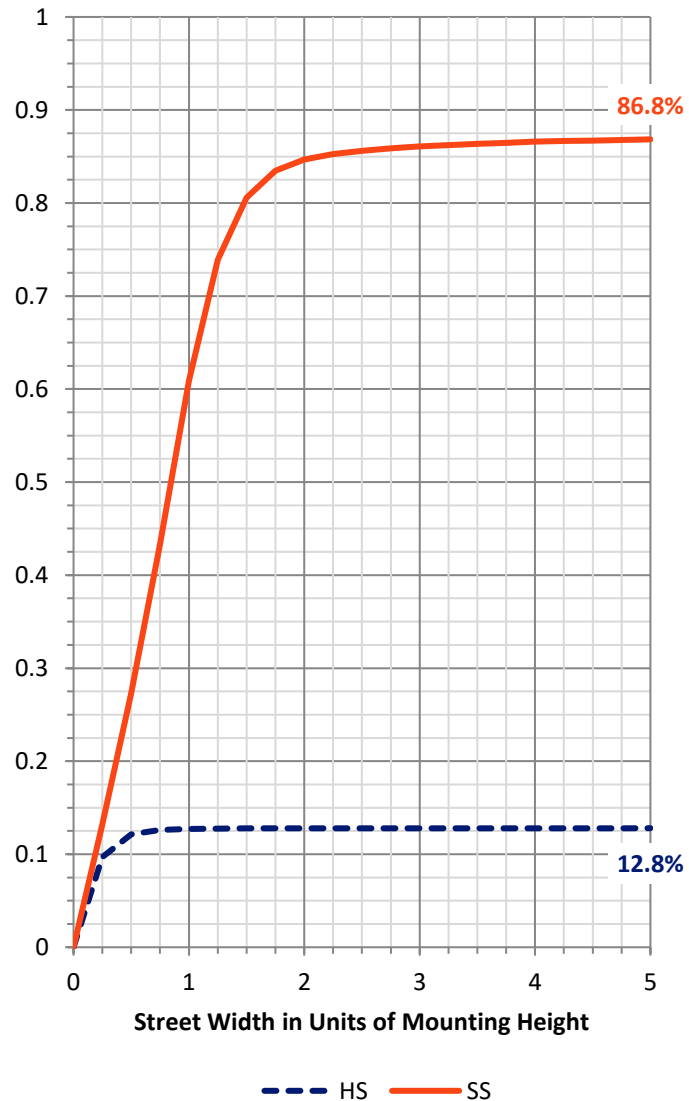
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.5	0.0	708.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4759.5	0.0	4759.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	5468.0	0.0	5468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.1
10°-20°	71.4	1.3
20°-30°	221.8	4.1
30°-40°	557.0	10.2
40°-50°	1208.0	22.1
50°-60°	1635.7	29.9
60°-70°	1285.8	23.5
70°-80°	454.7	8.3
80°-90°	27.4	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°	5468.0	100.0
0°-180°	5468.0	100.0

Coefficient of Utilization



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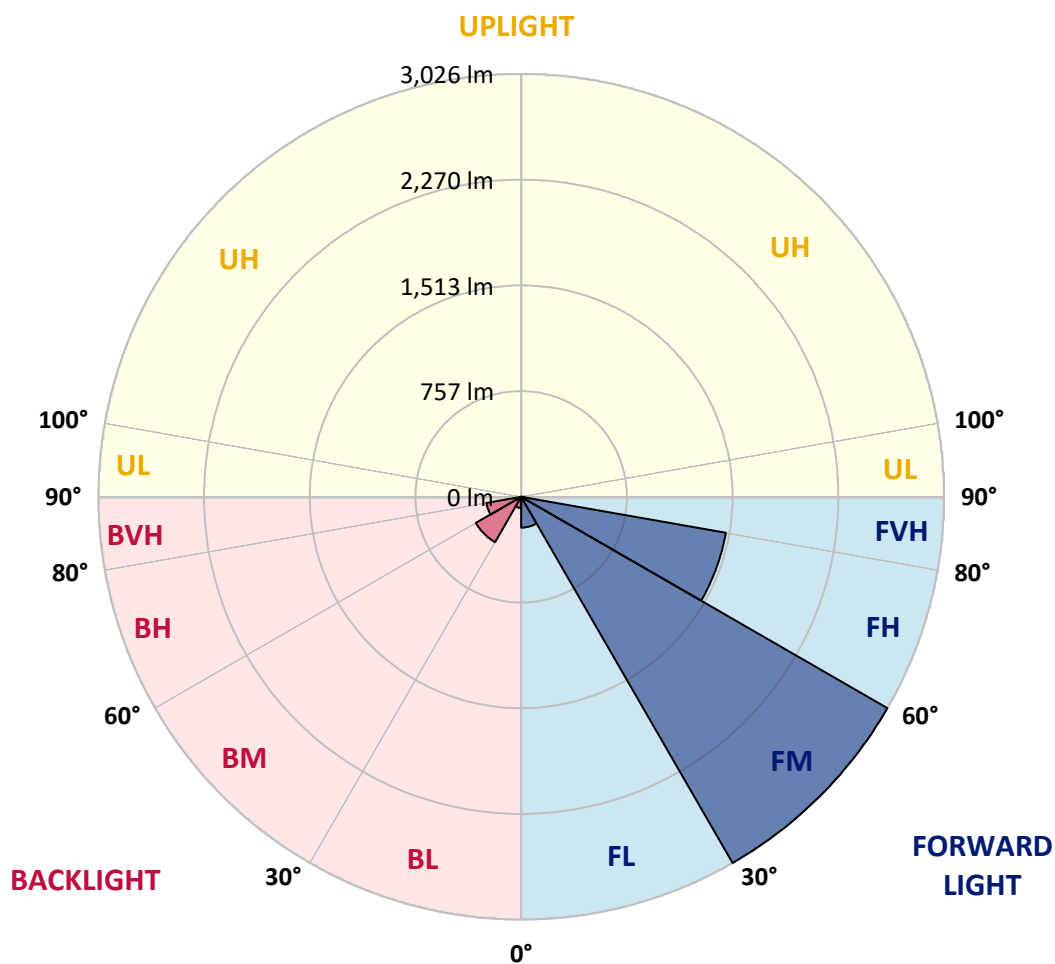
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.3	4.0			
FM	(30°-60°)	3026.4	55.3			
FH	(60°-80°)	1487.3	27.2			G1/1800
FVH	(80°-90°)	25.5	0.5			G1/100
BL	(0°-30°)	79.2	1.4	B0/110		
BM	(30°-60°)	374.3	6.8	B1/1000		
BH	(60°-80°)	253.2	4.6	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	20.3	19.4	16.6	12.9	4.6	2.8	0.0	0.0	0.0	0.0	0.0
5°	164.4	165.3	166.2	166.2	166.2	165.3	62.8	4.6	3.7	0.0	0.0
7.5°	159.7	160.7	160.7	160.7	161.6	161.6	161.6	156.1	128.4	2.8	0.0
10°	302.0	302.9	304.7	221.6	165.3	158.8	158.8	129.3	124.7	16.6	6.5
12.5°	297.3	298.3	300.1	301.0	302.9	201.3	168.1	230.8	246.5	320.4	209.6
15°	343.5	359.2	324.1	303.8	303.8	285.3	338.0	326.9	327.8	333.3	215.2
17.5°	449.7	448.8	452.5	456.2	333.3	418.3	438.6	342.6	346.3	388.7	395.2
20°	465.4	467.2	462.6	470.0	551.3	439.5	438.6	522.6	518.9	519.9	468.2
22.5°	633.4	635.3	641.8	532.8	576.2	543.9	572.5	583.6	583.6	546.7	551.3
25°	681.5	677.8	684.2	674.1	678.7	657.5	618.7	745.2	780.3	746.1	742.4
27.5°	946.5	938.2	918.8	751.6	738.7	698.1	815.4	835.7	836.6	830.1	860.6
30°	1121.0	1123.8	1070.2	979.7	821.8	804.3	901.2	976.0	1001.9	1086.8	1061.0
32.5°	1672.3	1638.1	1485.7	1163.5	1014.8	946.5	1002.8	1146.9	1129.3	1185.6	1185.6
35°	2186.6	2126.6	1894.8	1567.9	1187.5	1054.5	1191.2	1235.5	1269.7	1317.7	1334.3
37.5°	2700.0	2676.0	2434.1	1989.9	1530.1	1232.7	1344.5	1429.4	1425.7	1488.5	1520.8
40°	3156.2	3125.7	2965.9	2517.2	1938.2	1502.4	1560.5	1644.6	1638.1	1757.2	1801.5
42.5°	3496.0	3475.7	3371.3	2917.0	2442.4	1960.4	1883.7	1919.7	1942.8	2070.3	2115.5
45°	3681.6	3645.6	3615.1	3234.7	2881.0	2509.8	2311.3	2267.9	2295.6	2421.1	2452.5
47.5°	3641.9	3597.6	3641.0	3424.0	3267.0	2990.0	2874.5	2729.6	2709.2	2870.8	2811.7
50°	3331.6	3303.9	3438.7	3424.0	3488.6	3387.9	3511.7	3215.3	3182.9	3273.4	3170.0
52.5°	2782.2	2782.2	2990.9	3127.5	3484.9	3673.3	4067.6	3733.3	3680.7	3664.0	3442.4
55°	2217.1	2231.8	2427.6	2625.2	3181.1	3749.9	4532.0	4208.8	4162.7	3942.9	3647.4
57.5°	1603.9	1620.6	1900.3	2065.6	2608.6	3487.7	4709.3	4516.3	4497.9	4166.4	3836.7
60°	940.0	979.7	1276.1	1554.1	1883.7	2808.0	4639.1	4727.8	4786.9	4346.4	3975.2
62.5°	554.0	570.7	674.1	1053.6	1302.0	1910.5	4255.0	4833.1	5004.8	4498.8	4083.3
64°	404.4	412.8	486.6	762.7	1019.4	1387.9	3772.1	4833.1	5039.0	4581.0	4112.8
65°	330.6	334.3	386.0	610.4	862.5	1061.9	3318.7	4792.4	4993.7	4621.6	4106.3
67.5°	268.7	271.5	284.4	349.0	593.7	583.6	1962.2	4433.2	4592.1	4665.9	4006.6
70°	241.9	244.7	266.9	272.4	438.6	388.7	632.5	3643.7	3750.8	4436.9	3794.2
72.5°	183.8	191.1	230.8	265.0	303.8	290.9	302.9	2246.6	2371.3	3378.7	3237.4
75°	125.6	133.0	171.8	225.3	234.5	218.8	228.1	862.5	965.9	1755.4	1953.0
77.5°	80.3	81.3	107.1	163.4	209.6	149.6	172.7	242.9	282.6	594.7	608.5
80°	52.6	54.5	64.6	104.3	143.1	124.7	106.2	131.1	133.0	175.4	93.3
82.5°	32.3	31.4	42.5	64.6	87.7	105.3	65.6	85.0	88.6	103.4	39.7
85°	13.9	14.8	26.8	41.6	54.5	50.8	40.6	51.7	53.6	68.3	23.1
87.5°	5.5	5.5	15.7	23.1	24.0	24.0	24.9	27.7	27.7	42.5	14.8
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	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	3.7	85.0	121.9	121.9
10°	6.5	5.5	0.0	0.9	0.9	42.5	135.7	135.7	133.0	131.1	130.2
12.5°	207.8	239.2	229.0	98.8	76.6	121.0	128.4	113.6	101.6	96.0	94.2
15°	248.4	247.5	241.0	195.8	274.2	122.8	97.9	118.2	101.6	87.7	87.7
17.5°	413.7	392.4	327.8	265.9	248.4	166.2	98.8	67.4	55.4	51.7	51.7
20°	492.2	482.9	422.0	410.0	227.2	136.7	69.3	46.2	52.6	59.1	59.1
22.5°	604.8	600.2	443.2	390.6	226.2	83.1	55.4	55.4	54.5	51.7	51.7
25°	726.7	731.3	625.1	413.7	154.2	69.3	57.3	48.0	42.5	46.2	47.1
27.5°	886.5	770.1	629.8	381.4	105.3	64.6	48.9	46.2	45.2	43.4	43.4
30°	1067.4	1042.5	806.1	317.6	80.3	58.2	46.2	40.6	36.0	37.9	37.9
32.5°	1192.1	1115.5	791.4	240.1	69.3	50.8	39.7	34.2	35.1	36.0	35.1
35°	1317.7	1230.9	797.8	154.2	61.9	41.6	32.3	30.5	29.5	33.2	33.2
37.5°	1495.9	1386.0	785.8	97.0	51.7	34.2	27.7	26.8	27.7	28.6	28.6
40°	1714.7	1589.2	757.2	72.9	42.5	27.7	23.1	22.2	24.0	24.0	24.0
42.5°	1977.0	1810.8	682.4	63.7	36.0	22.2	18.5	18.5	20.3	20.3	20.3
45°	2290.0	2081.3	587.3	56.3	30.5	18.5	14.8	15.7	16.6	16.6	16.6
47.5°	2634.4	2378.7	466.3	48.9	25.9	14.8	12.0	12.0	12.9	12.9	12.9
50°	2953.0	2624.3	367.5	43.4	21.2	12.0	9.2	9.2	9.2	9.2	9.2
52.5°	3187.6	2785.9	267.8	37.9	18.5	9.2	6.5	6.5	6.5	6.5	6.5
55°	3378.7	2893.0	193.9	32.3	14.8	7.4	4.6	3.7	4.6	3.7	3.7
57.5°	3546.8	2960.4	139.4	26.8	12.0	4.6	1.8	1.8	1.8	1.8	1.8
60°	3699.1	2996.4	103.4	22.2	10.2	2.8	1.8	0.9	0.9	0.0	0.0
62.5°	3837.6	3009.3	78.5	17.5	8.3	1.8	0.9	0.0	0.0	0.0	0.0
64°	3888.4	2997.3	67.4	15.7	7.4	0.9	0.9	0.0	0.0	0.0	0.0
65°	3904.1	2968.7	60.9	13.9	6.5	0.9	0.9	0.0	0.0	0.0	0.0
67.5°	3856.1	2838.5	45.2	11.1	5.5	0.9	0.9	0.0	0.0	0.0	0.0
70°	3668.7	2592.9	33.2	9.2	3.7	0.0	0.9	0.0	0.0	0.0	0.0
72.5°	3000.1	1957.6	24.0	7.4	3.7	0.0	0.9	0.0	0.0	0.0	0.0
75°	1801.5	825.5	17.5	5.5	3.7	0.0	1.8	0.0	0.0	0.0	0.0
77.5°	543.9	265.9	12.9	4.6	4.6	0.0	2.8	0.9	0.0	0.0	0.0
80°	72.9	39.7	7.4	3.7	4.6	0.0	3.7	0.9	0.0	0.0	0.0
82.5°	26.8	12.9	4.6	3.7	4.6	0.0	3.7	2.8	0.9	0.9	0.0
85°	10.2	7.4	3.7	2.8	5.5	0.0	4.6	2.8	0.9	0.9	0.0
87.5°	4.6	3.7	2.8	2.8	5.5	0.0	4.6	3.7	0.9	0.9	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)