

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: P266405

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266405
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-AF24-60-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3879.8 lumens
Efficiency: N/A
Efficacy: 60.6 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): 64
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

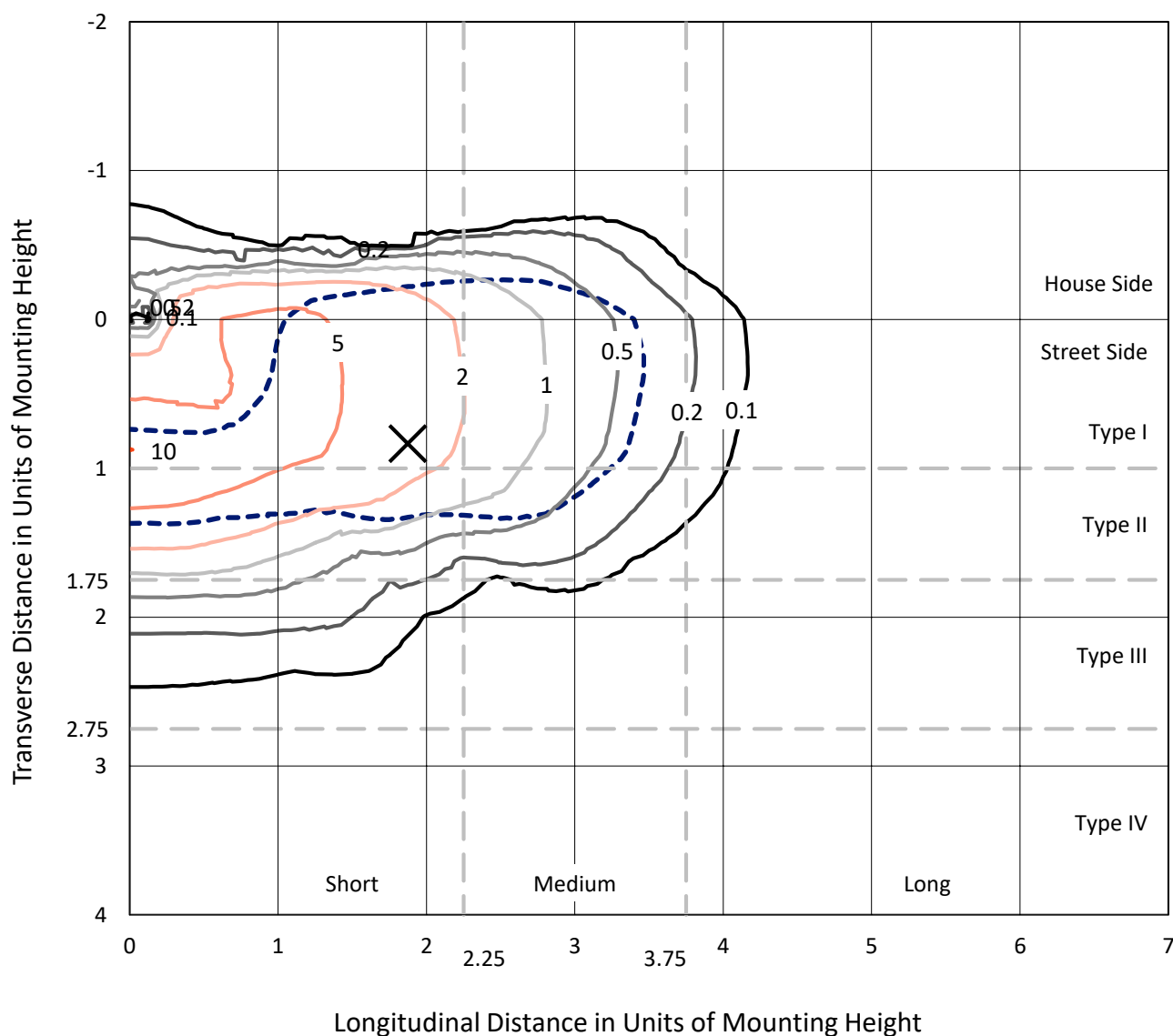


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

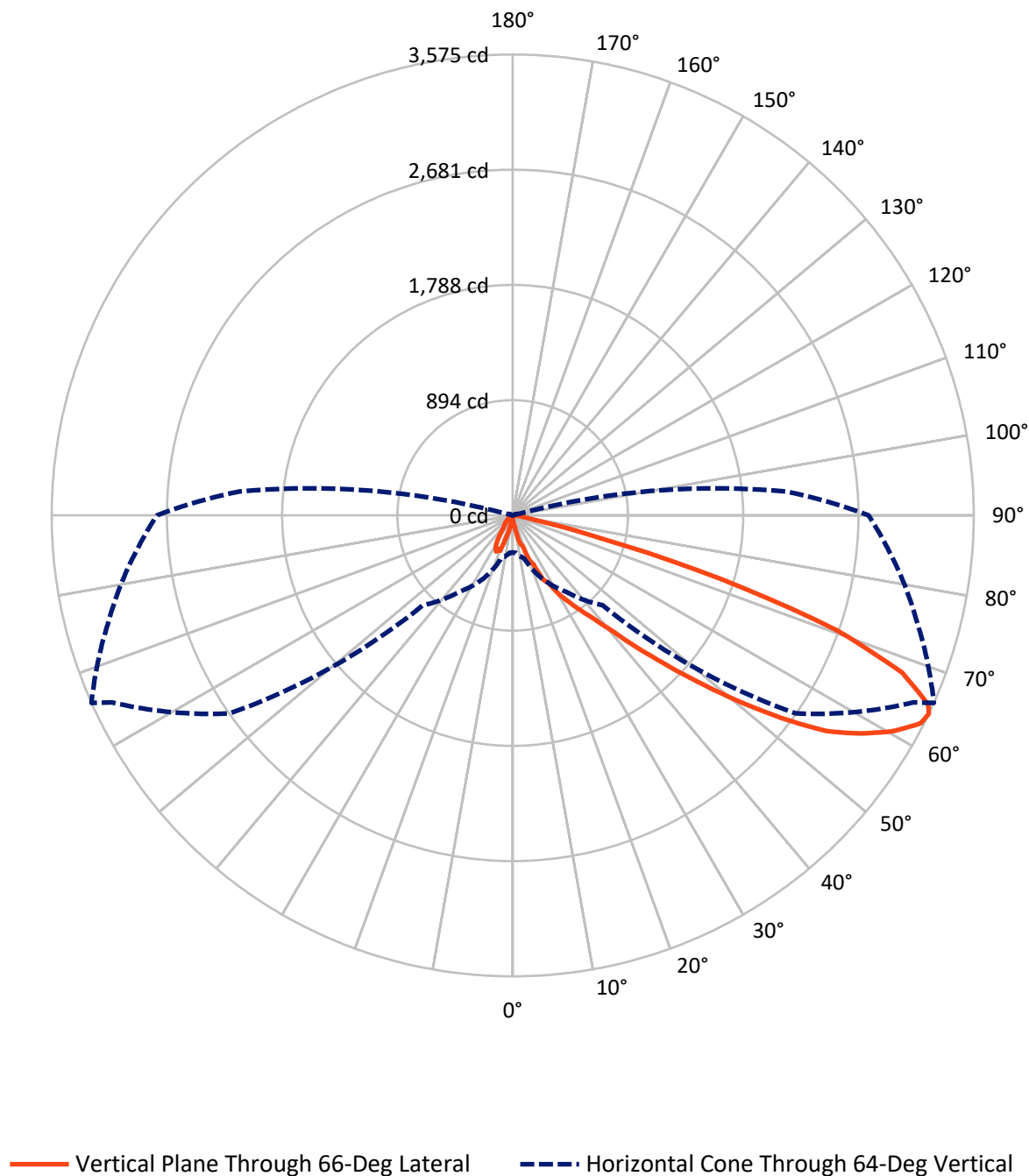


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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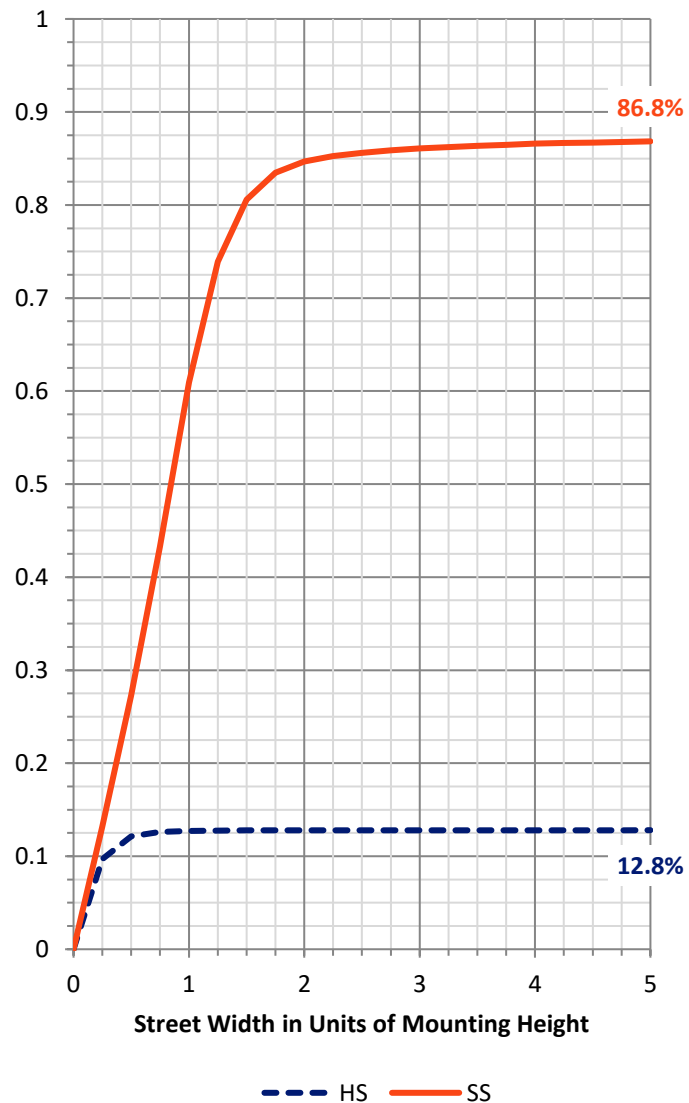
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.7	0.0	502.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3377.1	0.0	3377.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	3879.8	0.0	3879.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	50.7	1.3
20°-30°	157.4	4.1
30°-40°	395.2	10.2
40°-50°	857.1	22.1
50°-60°	1160.6	29.9
60°-70°	912.3	23.5
70°-80°	322.6	8.3
80°-90°	19.4	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°	3879.8	100.0
0°-180°	3879.8	100.0

Coefficient of Utilization



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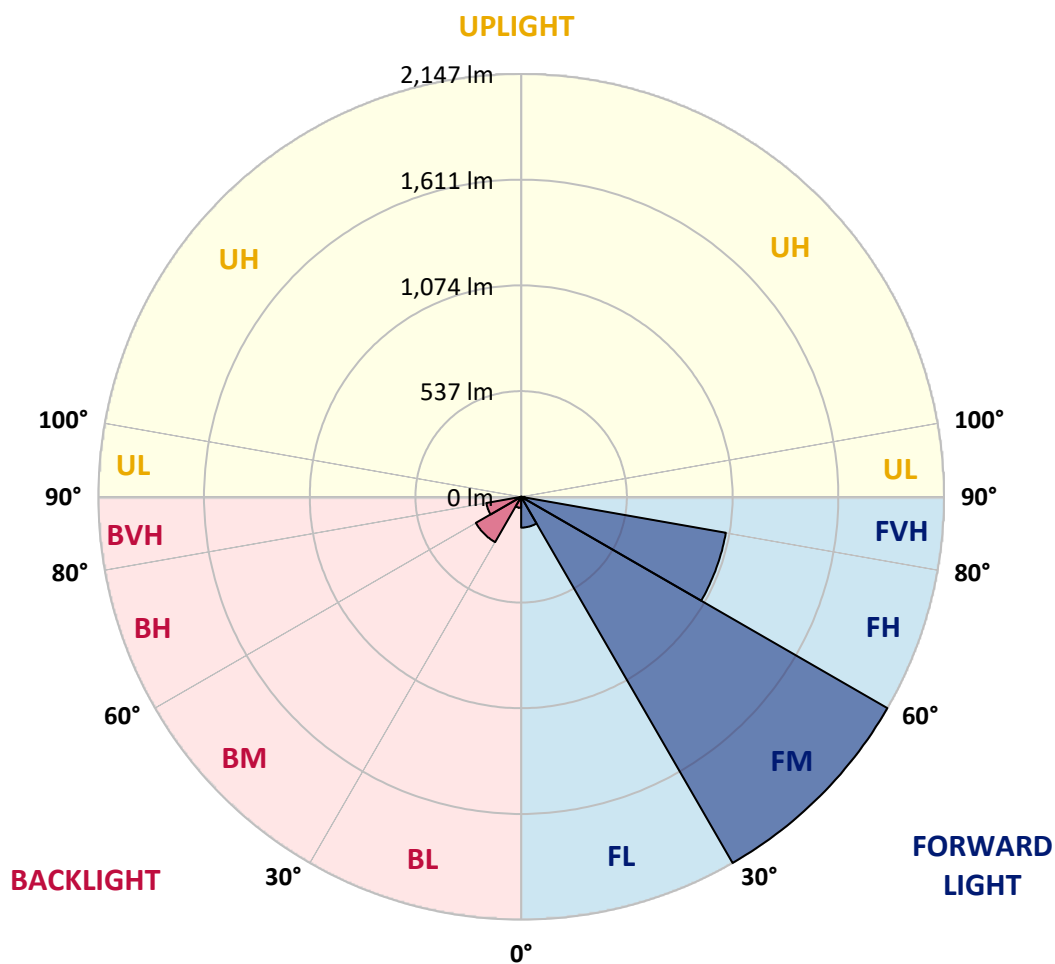
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.3	4.0			
FM	(30°-60°)	2147.4	55.3			
FH	(60°-80°)	1055.3	27.2			G1/1800
FVH	(80°-90°)	18.1	0.5			G1/100
BL	(0°-30°)	56.2	1.4	B0/110		
BM	(30°-60°)	265.6	6.8	B1/1000		
BH	(60°-80°)	179.7	4.6	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	14.5	13.7	11.8	9.2	3.2	1.9	0.0	0.0	0.0	0.0	0.0
5°	116.6	117.3	117.9	117.9	117.9	117.3	44.6	3.2	2.6	0.0	0.0
7.5°	113.4	114.1	114.1	114.1	114.7	114.7	114.7	110.8	91.1	1.9	0.0
10°	214.2	215.0	216.2	157.3	117.3	112.6	112.6	91.7	88.5	11.8	4.6
12.5°	211.0	211.6	213.0	213.5	215.0	142.8	119.3	163.9	174.9	227.4	148.7
15°	243.7	254.8	230.0	215.6	215.6	202.5	239.8	231.9	232.7	236.6	152.6
17.5°	319.1	318.4	321.1	323.7	236.6	296.8	311.3	243.1	245.6	275.8	280.5
20°	330.1	331.6	328.2	333.5	391.1	311.9	311.3	370.8	368.2	368.8	332.2
22.5°	449.4	450.8	455.4	378.0	408.9	385.9	406.3	414.1	414.1	387.9	391.1
25°	483.6	481.0	485.5	478.3	481.6	466.5	439.0	528.7	553.6	529.5	526.8
27.5°	671.6	665.6	651.9	533.4	524.2	495.3	578.6	592.9	593.6	589.0	610.7
30°	795.4	797.3	759.3	695.2	583.1	570.7	639.5	692.6	710.9	771.1	752.8
32.5°	1186.5	1162.2	1054.3	825.5	720.0	671.6	711.5	813.8	801.3	841.3	841.3
35°	1551.6	1509.0	1344.5	1112.6	842.6	748.2	845.1	876.7	900.9	935.0	946.8
37.5°	1915.7	1898.7	1727.1	1412.0	1085.6	874.7	954.0	1014.2	1011.6	1056.1	1079.1
40°	2239.5	2217.8	2104.5	1786.1	1375.2	1066.0	1107.3	1166.9	1162.2	1246.8	1278.3
42.5°	2480.6	2466.1	2392.0	2069.8	1733.0	1390.9	1336.6	1362.1	1378.4	1469.0	1501.1
45°	2612.2	2586.7	2565.1	2295.1	2044.3	1780.8	1639.9	1609.1	1628.7	1717.9	1740.1
47.5°	2584.1	2552.7	2583.4	2429.5	2318.0	2121.4	2039.6	1936.7	1922.4	2036.9	1995.0
50°	2363.9	2344.2	2439.9	2429.5	2475.3	2404.0	2491.7	2281.3	2258.5	2322.7	2249.3
52.5°	1974.0	1974.0	2122.2	2219.2	2472.7	2606.3	2886.2	2648.9	2611.6	2599.9	2442.5
55°	1573.1	1583.6	1722.5	1862.7	2257.1	2660.7	3215.8	2986.3	2953.5	2797.7	2587.9
57.5°	1138.1	1149.9	1348.4	1465.7	1850.9	2474.7	3341.4	3204.6	3191.5	2956.2	2722.4
60°	667.0	695.2	905.5	1102.7	1336.6	1992.4	3291.7	3354.6	3396.5	3084.1	2820.6
62.5°	393.1	404.9	478.3	747.6	923.8	1355.6	3019.2	3429.3	3551.1	3192.0	2897.3
64°	287.0	292.8	345.3	541.1	723.3	984.7	2676.5	3429.3	3575.3	3250.3	2918.2
65°	234.5	237.2	273.9	433.2	611.9	753.5	2354.7	3400.4	3543.3	3279.3	2913.7
67.5°	190.7	192.6	201.8	247.7	421.2	414.1	1392.4	3145.5	3258.2	3310.8	2842.9
70°	171.7	173.6	189.4	193.2	311.3	275.8	448.9	2585.4	2661.4	3148.2	2692.2
72.5°	130.3	135.6	163.9	188.0	215.6	206.4	215.0	1594.1	1682.5	2397.3	2297.1
75°	89.1	94.3	121.9	159.9	166.5	155.2	161.9	611.9	685.3	1245.5	1385.7
77.5°	57.0	57.6	75.9	116.1	148.7	106.1	122.4	172.4	200.5	421.9	431.7
80°	37.4	38.6	45.9	74.0	101.6	88.5	75.4	93.1	94.3	124.4	66.1
82.5°	22.9	22.3	30.2	45.9	62.3	74.6	46.5	60.2	62.9	73.4	28.1
85°	9.8	10.5	19.0	29.5	38.6	36.0	28.8	36.7	38.0	48.5	16.3
87.5°	4.0	4.0	11.0	16.3	17.1	17.1	17.6	19.7	19.7	30.2	10.5
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	2.6	60.2	86.4	86.4
10°	4.6	4.0	0.0	0.7	0.7	30.2	96.3	96.3	94.3	93.1	92.3
12.5°	147.4	169.7	162.6	70.1	54.3	85.8	91.1	80.6	72.0	68.1	66.8
15°	176.2	175.6	170.9	138.9	194.7	87.1	69.4	83.8	72.0	62.3	62.3
17.5°	293.6	278.5	232.7	188.7	176.2	117.9	70.1	47.8	39.3	36.7	36.7
20°	349.3	342.7	299.4	291.0	161.2	96.9	49.1	32.8	37.4	42.0	42.0
22.5°	429.1	425.8	314.4	277.1	160.5	59.0	39.3	39.3	38.6	36.7	36.7
25°	515.6	519.0	443.6	293.6	109.5	49.1	40.7	34.0	30.2	32.8	33.3
27.5°	629.1	546.3	446.8	270.6	74.6	45.9	34.8	32.8	32.1	30.8	30.8
30°	757.5	739.8	572.0	225.4	57.0	41.3	32.8	28.8	25.5	26.9	26.9
32.5°	845.8	791.4	561.5	170.4	49.1	36.0	28.1	24.3	25.0	25.5	25.0
35°	935.0	873.3	566.1	109.5	43.8	29.5	22.9	21.6	21.0	23.5	23.5
37.5°	1061.3	983.5	557.6	68.8	36.7	24.3	19.7	19.0	19.7	20.3	20.3
40°	1216.7	1127.6	537.2	51.7	30.2	19.7	16.3	15.7	17.1	17.1	17.1
42.5°	1402.8	1284.8	484.1	45.3	25.5	15.7	13.1	13.1	14.5	14.5	14.5
45°	1624.9	1476.9	416.8	40.0	21.6	13.1	10.5	11.0	11.8	11.8	11.8
47.5°	1869.3	1687.7	330.8	34.8	18.3	10.5	8.5	8.5	9.2	9.2	9.2
50°	2095.2	1862.0	260.8	30.8	15.1	8.5	6.6	6.6	6.6	6.6	6.6
52.5°	2261.8	1976.7	190.0	26.9	13.1	6.6	4.6	4.6	4.6	4.6	4.6
55°	2397.3	2052.6	137.6	22.9	10.5	5.2	3.2	2.6	3.2	2.6	2.6
57.5°	2516.6	2100.5	99.0	19.0	8.5	3.2	1.3	1.3	1.3	1.3	1.3
60°	2624.7	2126.1	73.4	15.7	7.1	1.9	1.3	0.7	0.7	0.0	0.0
62.5°	2723.0	2135.4	55.7	12.4	5.8	1.3	0.7	0.0	0.0	0.0	0.0
64°	2759.1	2126.7	47.8	11.0	5.2	0.7	0.7	0.0	0.0	0.0	0.0
65°	2770.2	2106.4	43.3	9.8	4.6	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	2736.1	2014.1	32.1	7.8	4.0	0.7	0.7	0.0	0.0	0.0	0.0
70°	2603.1	1839.8	23.5	6.6	2.6	0.0	0.7	0.0	0.0	0.0	0.0
72.5°	2128.8	1389.0	17.1	5.2	2.6	0.0	0.7	0.0	0.0	0.0	0.0
75°	1278.3	585.8	12.4	4.0	2.6	0.0	1.3	0.0	0.0	0.0	0.0
77.5°	385.9	188.7	9.2	3.2	3.2	0.0	1.9	0.7	0.0	0.0	0.0
80°	51.7	28.1	5.2	2.6	3.2	0.0	2.6	0.7	0.0	0.0	0.0
82.5°	19.0	9.2	3.2	2.6	3.2	0.0	2.6	1.9	0.7	0.7	0.0
85°	7.1	5.2	2.6	1.9	4.0	0.0	3.2	1.9	0.7	0.7	0.0
87.5°	3.2	2.6	1.9	1.9	4.0	0.0	3.2	2.6	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)