

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: P266507

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266507
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-AF24-90-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 5138.1 lumens
Efficiency: N/A
Efficacy: 54.7 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): 94
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

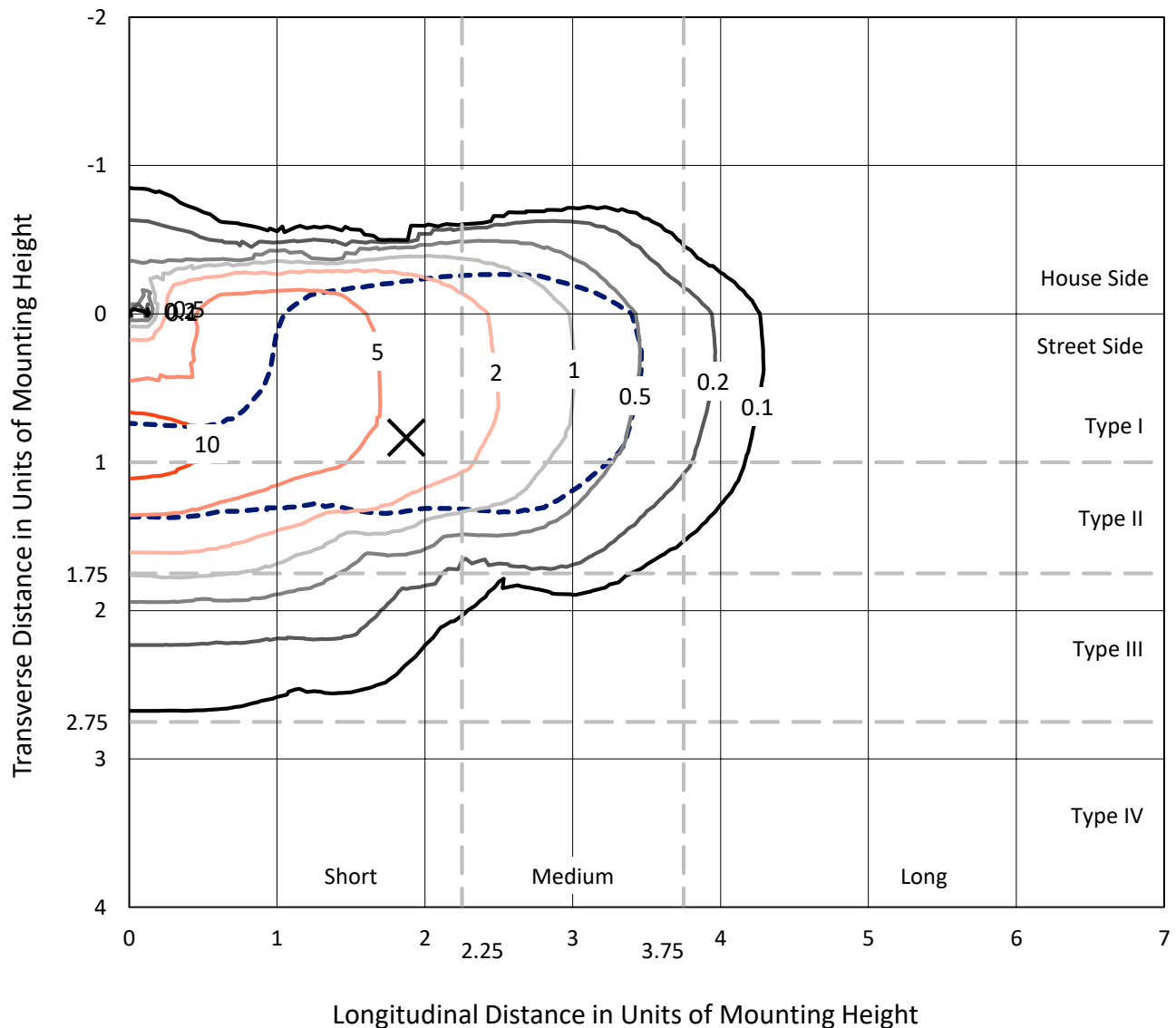


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

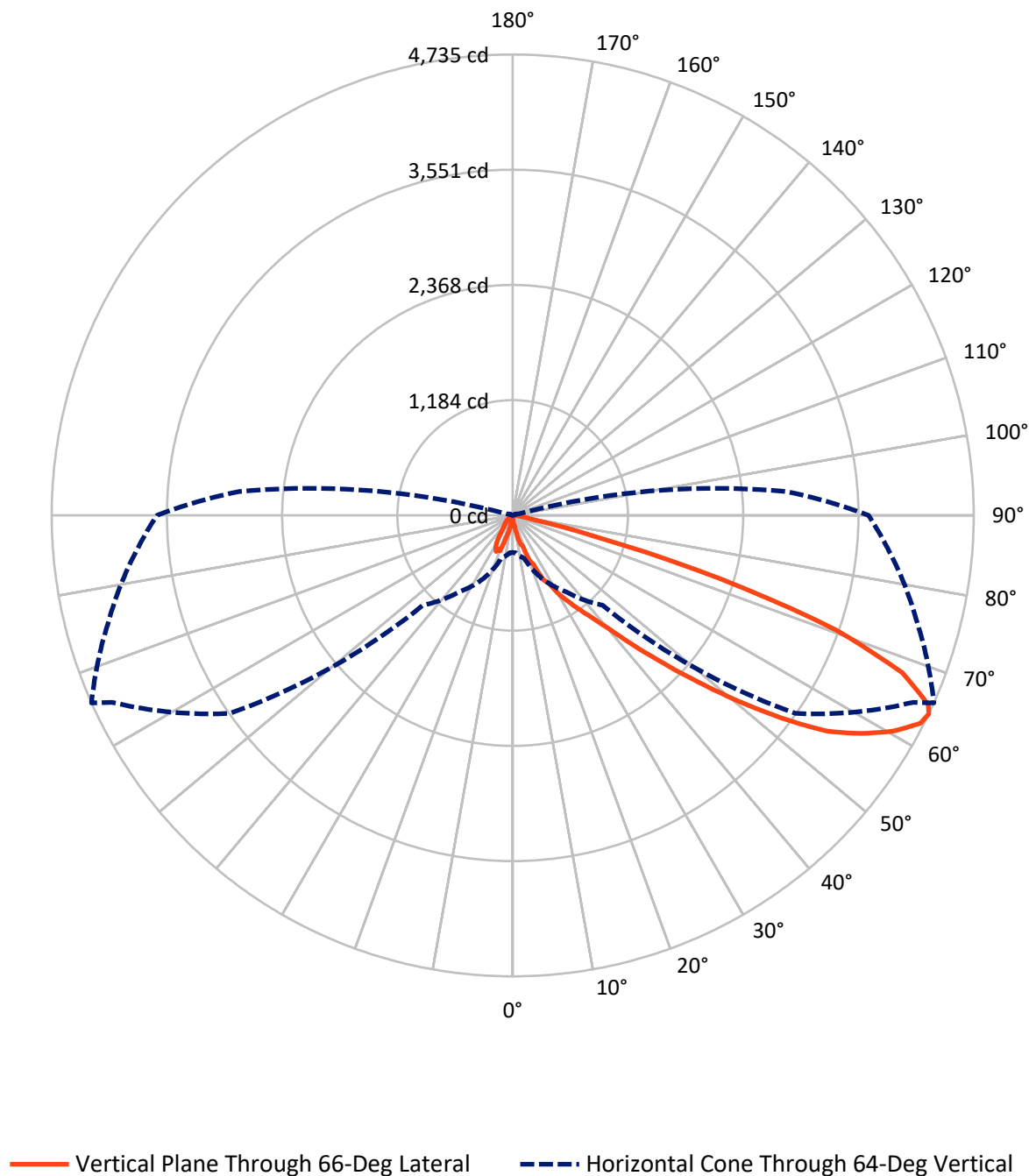


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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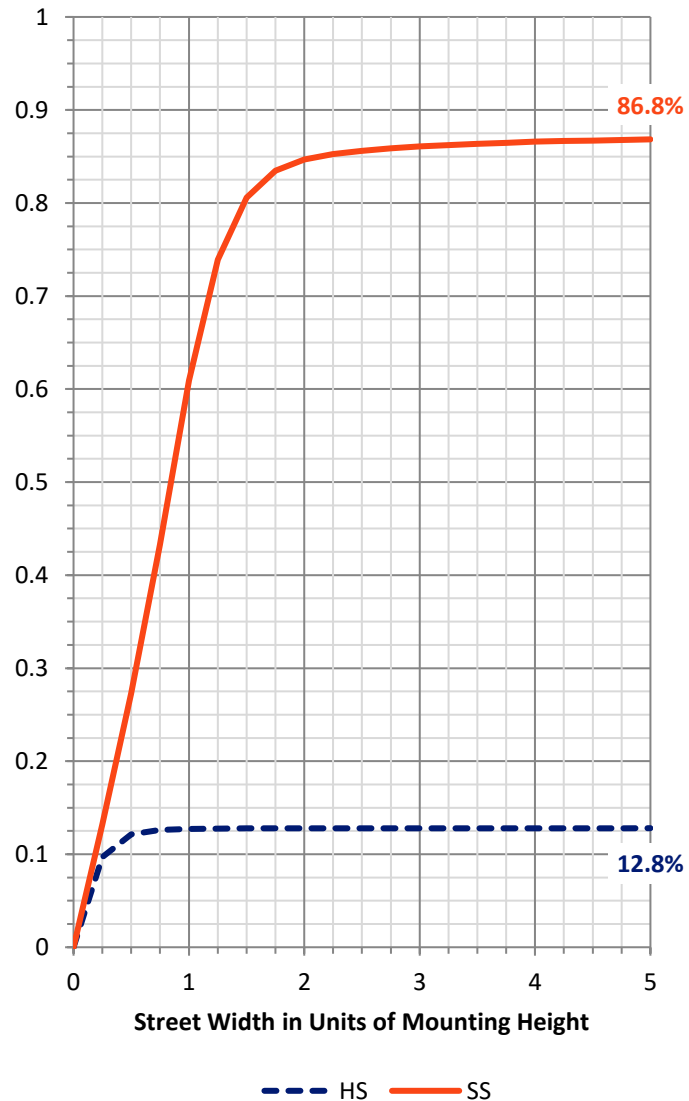
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	665.8	0.0	665.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4472.3	0.0	4472.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	5138.1	0.0	5138.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	67.1	1.3
20°-30°	208.4	4.1
30°-40°	523.4	10.2
40°-50°	1135.1	22.1
50°-60°	1537.0	29.9
60°-70°	1208.2	23.5
70°-80°	427.3	8.3
80°-90°	25.7	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°	5138.1	100.0
0°-180°	5138.1	100.0

Coefficient of Utilization



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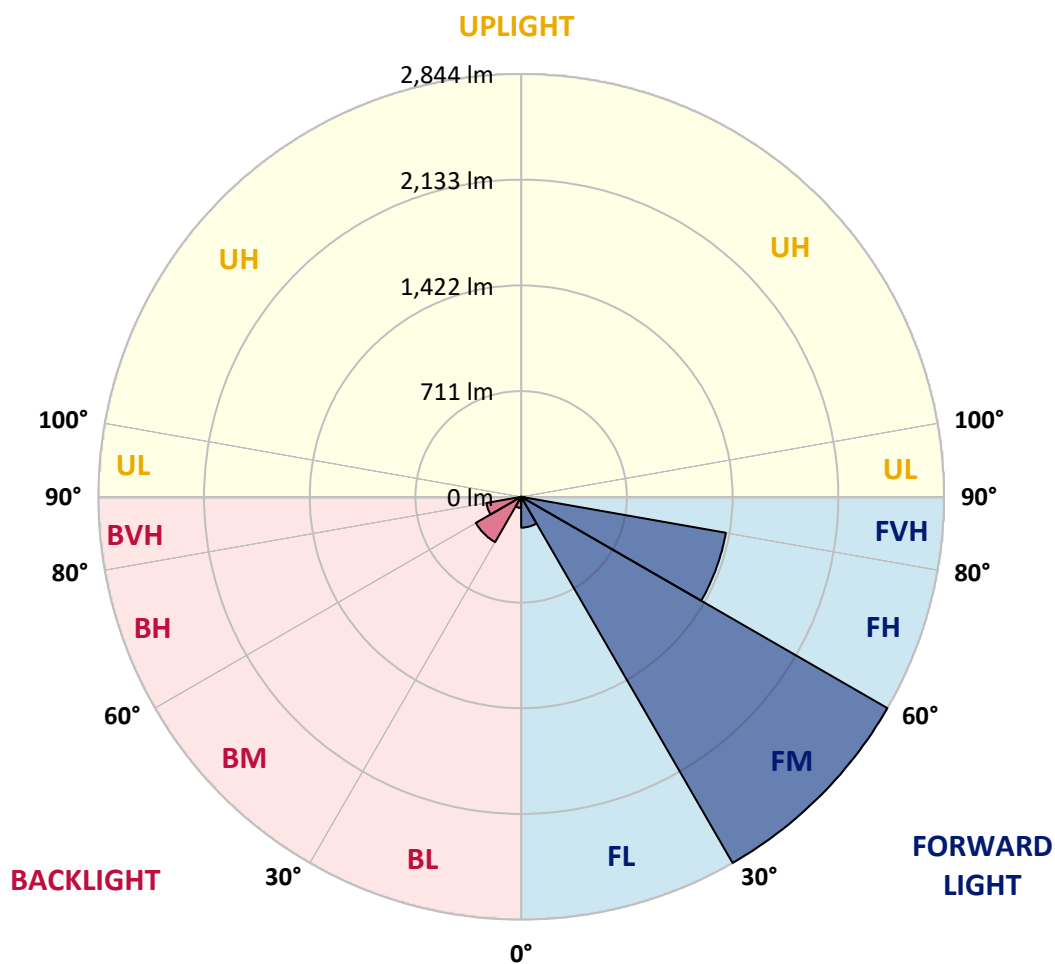
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.0	4.0			
FM	(30°-60°)	2843.8	55.3			
FH	(60°-80°)	1397.5	27.2			G1/1800
FVH	(80°-90°)	23.9	0.5			G1/100
BL	(0°-30°)	74.4	1.4	B0/110		
BM	(30°-60°)	351.7	6.8	B1/1000		
BH	(60°-80°)	237.9	4.6	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	19.0	18.2	15.6	12.1	4.3	2.6	0.0	0.0	0.0	0.0	0.0
5°	154.5	155.2	156.1	156.1	156.1	155.2	59.0	4.3	3.5	0.0	0.0
7.5°	150.0	150.9	150.9	150.9	151.9	151.9	151.9	146.7	120.6	2.6	0.0
10°	283.8	284.7	286.3	208.2	155.2	149.3	149.3	121.5	117.0	15.6	6.1
12.5°	279.5	280.2	282.0	282.8	284.7	189.2	157.9	216.9	231.7	301.1	197.0
15°	322.9	337.6	304.5	285.5	285.5	268.1	317.6	307.2	307.9	313.1	202.2
17.5°	422.6	421.7	425.2	428.6	313.1	393.1	412.1	322.0	325.4	365.3	371.4
20°	437.4	439.0	434.7	441.6	518.1	413.0	412.1	491.2	487.6	488.5	439.9
22.5°	595.2	597.0	603.0	500.6	541.4	511.0	537.9	548.3	548.3	513.7	518.1
25°	640.3	636.9	642.9	633.5	637.7	617.8	581.4	700.1	733.1	701.0	697.7
27.5°	889.4	881.5	863.4	706.2	694.1	655.9	766.2	785.3	786.0	780.1	808.7
30°	1053.4	1056.0	1005.7	920.7	772.3	755.7	846.8	917.1	941.5	1021.3	996.9
32.5°	1571.3	1539.2	1396.1	1093.2	953.6	889.4	942.3	1077.6	1061.2	1114.1	1114.1
35°	2054.7	1998.3	1780.5	1473.3	1115.9	990.9	1119.3	1161.0	1193.0	1238.1	1253.9
37.5°	2537.2	2514.5	2287.3	1869.8	1437.7	1158.4	1263.3	1343.1	1339.7	1398.8	1429.1
40°	2965.8	2937.1	2787.0	2365.2	1821.3	1411.6	1466.4	1545.4	1539.2	1651.2	1692.9
42.5°	3285.0	3266.0	3168.0	2741.0	2295.0	1842.1	1770.1	1803.8	1825.5	1945.3	1987.9
45°	3459.5	3425.5	3397.0	3039.4	2707.1	2358.3	2171.8	2131.0	2157.0	2275.0	2304.5
47.5°	3422.2	3380.5	3421.3	3217.4	3069.9	2809.5	2701.1	2564.8	2545.7	2697.6	2642.1
50°	3130.6	3104.5	3231.3	3217.4	3278.1	3183.6	3299.7	3021.3	2990.8	3075.9	2978.7
52.5°	2614.2	2614.2	2810.3	2938.8	3274.6	3451.6	3822.1	3508.1	3458.6	3442.9	3234.6
55°	2083.3	2097.2	2281.2	2466.8	2989.1	3523.6	4258.5	3954.9	3911.5	3705.0	3427.4
57.5°	1507.1	1522.7	1785.7	1941.0	2451.1	3277.2	4425.1	4243.9	4226.4	3915.0	3605.2
60°	883.4	920.7	1199.1	1460.4	1770.1	2638.6	4359.3	4442.5	4498.1	4084.1	3735.3
62.5°	520.6	536.2	633.5	990.0	1223.4	1795.3	3998.3	4541.4	4702.7	4227.3	3836.9
64°	380.1	387.9	457.2	716.7	958.0	1304.1	3544.4	4541.4	4735.0	4304.6	3864.7
65°	310.6	314.0	362.6	573.6	810.5	997.8	3118.5	4503.3	4692.3	4342.8	3858.6
67.5°	252.6	255.1	267.2	328.1	557.8	548.3	1843.9	4165.7	4315.0	4384.4	3764.8
70°	227.4	230.0	250.7	255.9	412.1	365.3	594.4	3423.9	3524.5	4169.3	3565.4
72.5°	172.7	179.7	216.9	249.0	285.5	273.4	284.7	2111.0	2228.2	3174.8	3042.1
75°	117.9	125.0	161.3	211.7	220.4	205.6	214.3	810.5	907.6	1649.5	1835.1
77.5°	75.5	76.4	100.6	153.6	197.0	140.6	162.2	228.2	265.4	558.7	571.9
80°	49.4	51.3	60.7	98.1	134.4	117.0	99.8	123.2	125.0	164.8	87.7
82.5°	30.4	29.6	40.0	60.7	82.5	99.0	61.7	79.8	83.4	97.1	37.3
85°	13.0	13.8	25.2	39.0	51.3	47.7	38.2	48.6	50.3	64.1	21.6
87.5°	5.2	5.2	14.7	21.6	22.5	22.5	23.4	26.1	26.1	40.0	13.8
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	3.5	79.8	114.5	114.5
10°	6.1	5.2	0.0	0.9	0.9	40.0	127.6	127.6	125.0	123.2	122.3
12.5°	195.2	224.8	215.1	92.9	72.0	113.6	120.6	106.7	95.4	90.2	88.6
15°	233.4	232.5	226.5	184.0	257.8	115.4	91.9	111.1	95.4	82.5	82.5
17.5°	388.7	368.8	307.9	249.9	233.4	156.1	92.9	63.3	52.0	48.6	48.6
20°	462.4	453.9	396.5	385.3	213.4	128.4	65.0	43.4	49.4	55.5	55.5
22.5°	568.4	564.0	416.5	367.0	212.5	78.2	52.0	52.0	51.3	48.6	48.6
25°	682.8	687.3	587.4	388.7	144.8	65.0	53.8	45.2	40.0	43.4	44.2
27.5°	833.0	723.7	591.8	358.3	99.0	60.7	46.1	43.4	42.5	40.9	40.9
30°	1003.0	979.6	757.5	298.4	75.5	54.6	43.4	38.2	33.9	35.6	35.6
32.5°	1120.1	1048.1	743.5	225.7	65.0	47.7	37.3	32.1	33.0	33.9	33.0
35°	1238.1	1156.6	749.6	144.8	58.1	39.0	30.4	28.7	27.8	31.3	31.3
37.5°	1405.7	1302.5	738.3	91.1	48.6	32.1	26.1	25.2	26.1	26.9	26.9
40°	1611.3	1493.3	711.5	68.5	40.0	26.1	21.6	20.8	22.5	22.5	22.5
42.5°	1857.7	1701.5	641.2	59.8	33.9	20.8	17.3	17.3	19.0	19.0	19.0
45°	2151.8	1955.7	551.9	52.9	28.7	17.3	13.8	14.7	15.6	15.6	15.6
47.5°	2475.5	2235.2	438.2	46.1	24.3	13.8	11.3	11.3	12.1	12.1	12.1
50°	2774.9	2465.9	345.4	40.9	19.9	11.3	8.7	8.7	8.7	8.7	8.7
52.5°	2995.2	2617.8	251.6	35.6	17.3	8.7	6.1	6.1	6.1	6.1	6.1
55°	3174.8	2718.5	182.3	30.4	13.8	6.9	4.3	3.5	4.3	3.5	3.5
57.5°	3332.7	2781.8	131.1	25.2	11.3	4.3	1.7	1.7	1.7	1.7	1.7
60°	3475.9	2815.6	97.1	20.8	9.5	2.6	1.7	0.9	0.9	0.0	0.0
62.5°	3606.1	2827.8	73.8	16.4	7.8	1.7	0.9	0.0	0.0	0.0	0.0
64°	3653.8	2816.5	63.3	14.7	6.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	3668.6	2789.5	57.2	13.0	6.1	0.9	0.9	0.0	0.0	0.0	0.0
67.5°	3623.5	2667.2	42.5	10.4	5.2	0.9	0.9	0.0	0.0	0.0	0.0
70°	3447.2	2436.5	31.3	8.7	3.5	0.0	0.9	0.0	0.0	0.0	0.0
72.5°	2819.2	1839.5	22.5	6.9	3.5	0.0	0.9	0.0	0.0	0.0	0.0
75°	1692.9	775.6	16.4	5.2	3.5	0.0	1.7	0.0	0.0	0.0	0.0
77.5°	511.0	249.9	12.1	4.3	4.3	0.0	2.6	0.9	0.0	0.0	0.0
80°	68.5	37.3	6.9	3.5	4.3	0.0	3.5	0.9	0.0	0.0	0.0
82.5°	25.2	12.1	4.3	3.5	4.3	0.0	3.5	2.6	0.9	0.9	0.0
85°	9.5	6.9	3.5	2.6	5.2	0.0	4.3	2.6	0.9	0.9	0.0
87.5°	4.3	3.5	2.6	2.6	5.2	0.0	4.3	3.5	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)