

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: P239611

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
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: 7139 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



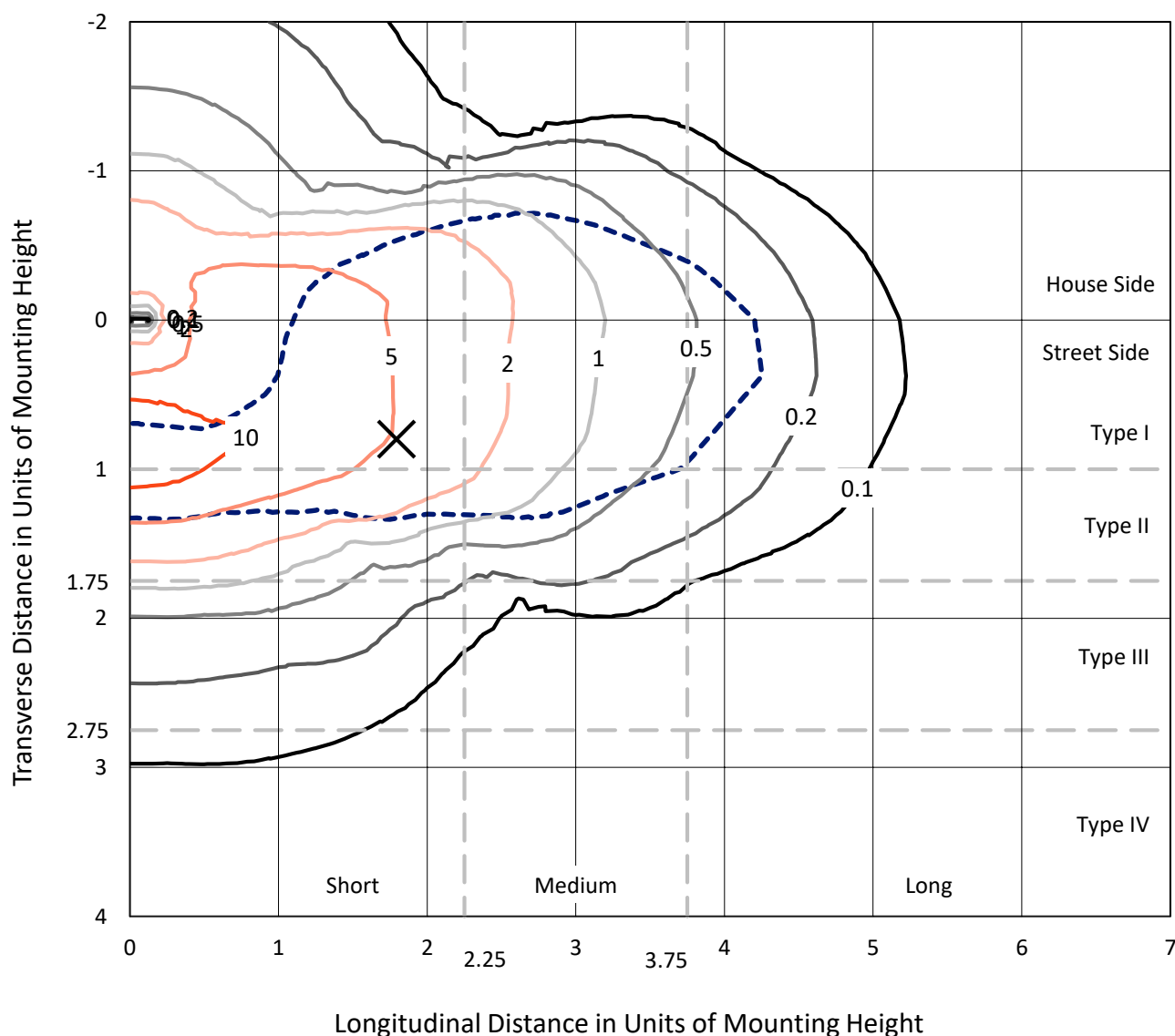
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

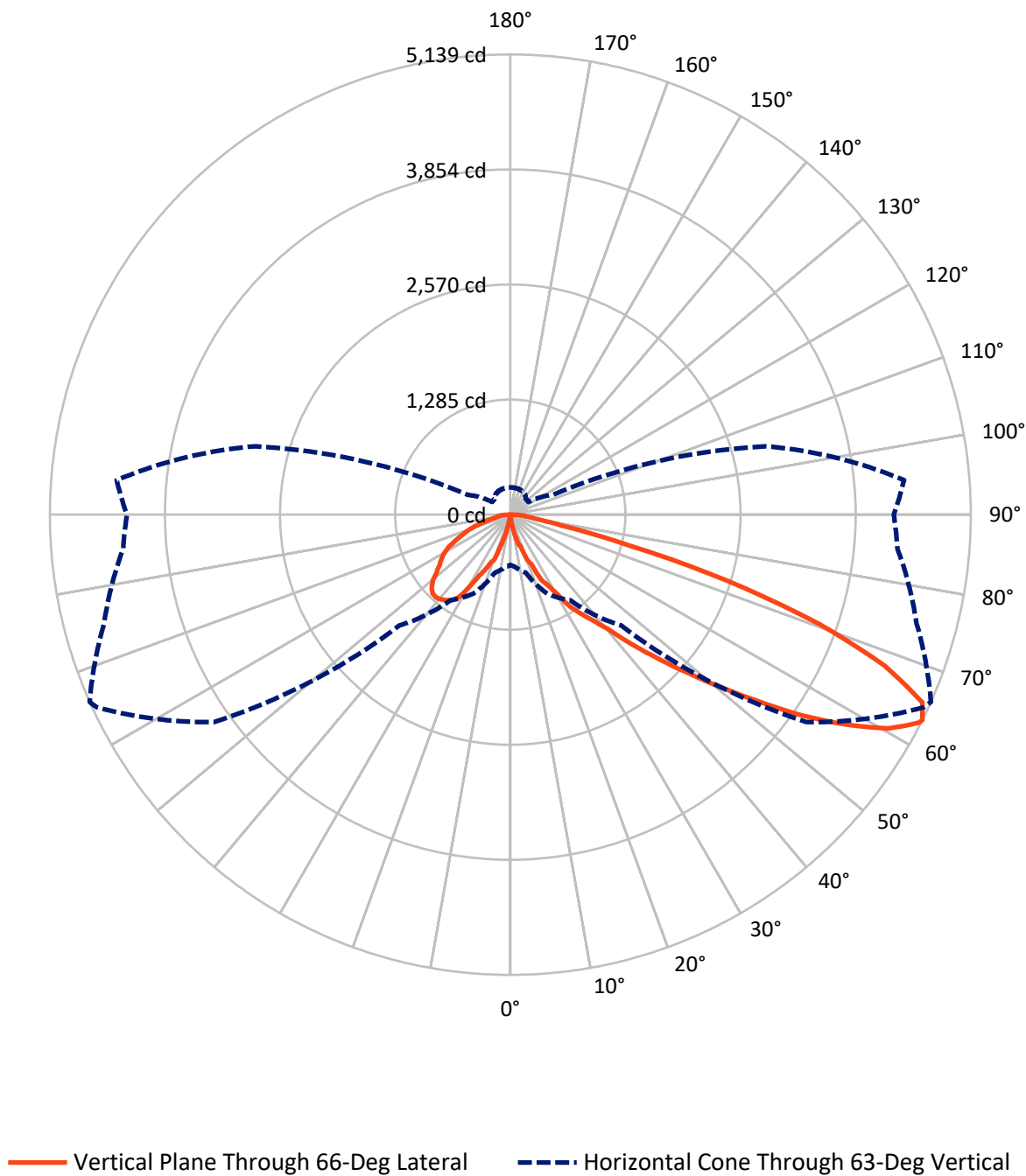


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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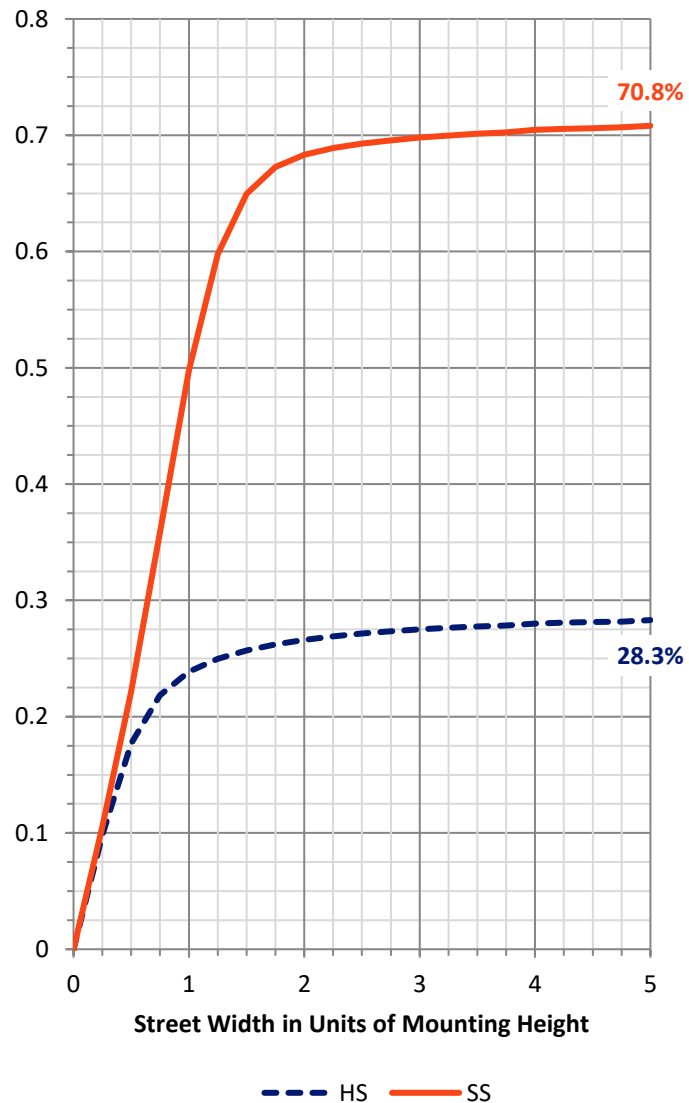
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.1	0.0	2056.1
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5082.9	0.0	5082.9
	% Fixture	71.2	0.0	71.2
Total	Lumens	7139.0	0.0	7139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.1
10°-20°	94.3	1.3
20°-30°	346.6	4.9
30°-40°	788.7	11.0
40°-50°	1420.3	19.9
50°-60°	1854.2	26.0
60°-70°	1647.4	23.1
70°-80°	836.8	11.7
80°-90°	143.8	2.0
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°	7139.0	100.0
0°-180°	7139.0	100.0

Coefficient of Utilization



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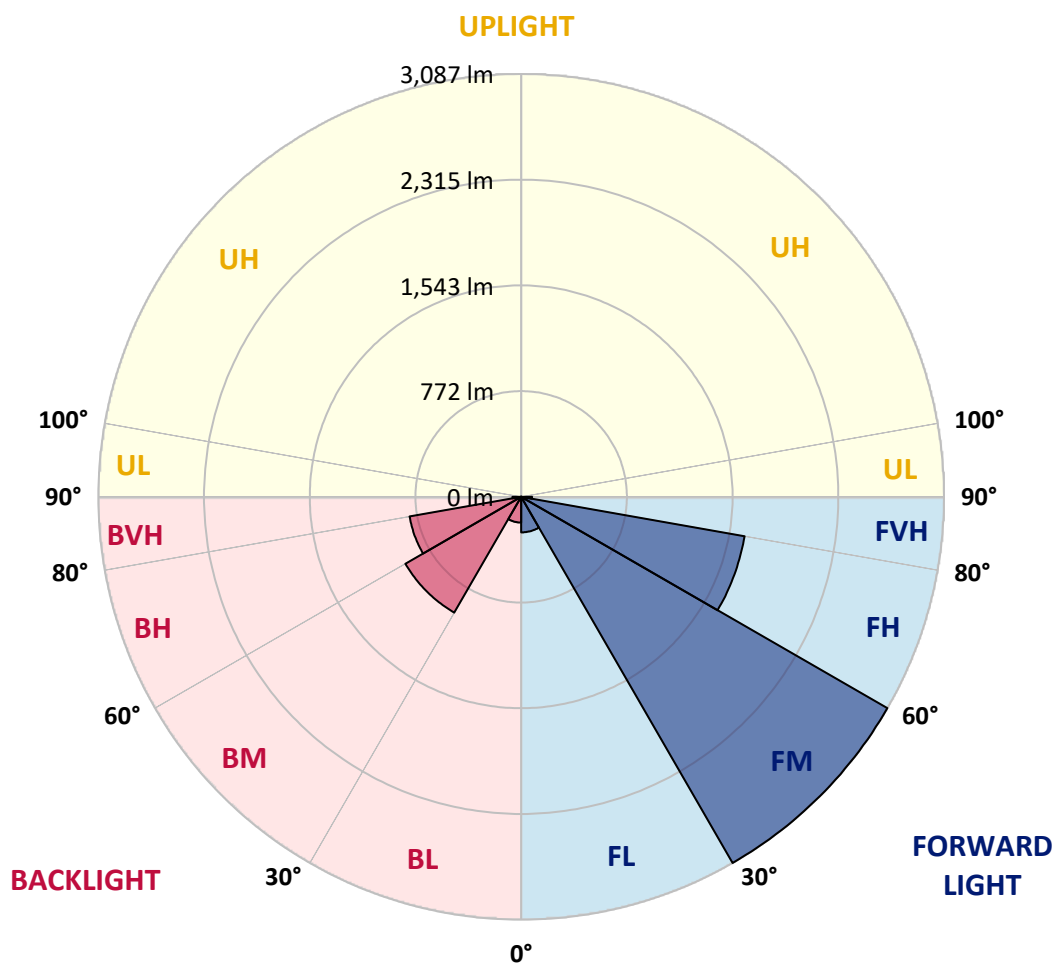
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.6	3.6			
FM	(30°-60°)	3086.9	43.2			
FH	(60°-80°)	1656.6	23.2			G1/1800
FVH	(80°-90°)	79.8	1.1			G1/100
BL	(0°-30°)	188.2	2.6	B1/500		
BM	(30°-60°)	976.3	13.7	B1/1000		
BH	(60°-80°)	827.6	11.6	B2/1000		G2/1000
BVH	(80°-90°)	64.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	18.0	18.0	15.5	12.3	9.8	8.2	5.7	4.1	4.1	2.5	1.6
5°	165.1	165.1	164.3	163.5	161.9	155.3	28.6	9.0	8.2	4.1	2.5
7.5°	168.4	167.6	167.6	166.0	165.1	161.9	159.4	62.1	52.3	9.0	4.9
10°	301.7	300.0	297.6	201.1	170.0	166.0	165.1	130.0	129.2	27.8	20.4
12.5°	314.8	315.6	313.1	310.7	304.1	190.5	182.3	235.5	239.5	275.5	214.2
15°	358.9	354.0	336.0	324.6	318.8	299.2	340.9	340.1	341.7	322.9	245.3
17.5°	509.3	507.7	503.6	472.5	350.7	449.6	430.0	366.3	371.2	423.5	423.5
20°	574.7	573.9	559.2	542.0	601.7	484.8	461.9	537.9	542.0	547.8	506.9
22.5°	863.3	862.5	827.3	636.0	676.1	608.2	611.5	613.2	598.4	590.3	634.4
25°	1001.5	994.9	975.3	918.1	802.0	810.2	668.7	804.5	811.0	806.1	796.3
27.5°	1412.7	1413.5	1250.0	1083.2	984.3	911.6	919.7	892.8	891.9	877.2	916.5
30°	1646.5	1635.1	1577.8	1416.0	1174.8	1077.5	1032.6	1049.7	1023.6	1115.9	1108.6
32.5°	2197.5	2197.5	1999.7	1643.3	1416.0	1335.9	1200.1	1205.1	1224.7	1211.6	1230.4
35°	2585.1	2548.3	2352.9	2063.5	1605.6	1501.8	1420.9	1349.8	1357.9	1335.0	1353.0
37.5°	2996.3	2959.5	2743.7	2372.5	1940.8	1756.1	1606.5	1518.2	1497.7	1499.4	1513.3
40°	3315.9	3295.5	3163.1	2753.5	2271.9	2027.5	1823.9	1703.8	1681.7	1721.7	1766.7
42.5°	3539.1	3530.9	3452.5	3091.1	2662.7	2438.7	2134.6	1960.5	1964.5	1985.8	2030.8
45°	3628.2	3609.4	3607.0	3304.5	3015.1	2902.3	2540.9	2253.1	2267.9	2325.9	2334.9
47.5°	3530.9	3491.7	3562.8	3392.8	3307.8	3315.1	3005.3	2630.8	2616.1	2671.7	2666.8
50°	3174.5	3161.4	3298.0	3324.9	3452.5	3621.7	3514.6	3051.9	3009.4	3014.3	2980.7
52.5°	2621.8	2653.7	2833.6	3021.6	3384.6	3787.7	3970.0	3496.6	3459.8	3356.0	3291.4
55°	2107.6	2146.0	2340.6	2487.0	3040.4	3776.2	4302.7	3941.4	3961.8	3695.3	3575.1
57.5°	1542.7	1592.6	1850.9	1974.4	2491.0	3500.7	4471.9	4374.6	4424.5	4030.5	3844.9
60°	986.0	1004.8	1265.5	1510.8	1812.5	2852.4	4455.6	4788.3	4848.0	4391.8	4095.9
62.5°	615.6	636.0	721.1	1063.6	1281.9	1933.5	4140.0	5063.0	5117.8	4651.0	4305.2
63°	560.8	584.5	672.0	972.1	1168.3	1749.5	4035.4	5090.8	5139.0	4694.3	4336.2
65°	417.8	427.6	473.4	655.7	857.6	1098.8	3304.5	4993.5	5054.0	4731.1	4348.5
67.5°	364.6	368.7	385.1	432.5	613.2	639.3	1925.3	4473.6	4511.2	4592.1	4194.0
70°	333.6	336.0	365.4	368.7	480.7	453.7	706.4	3514.6	3656.8	4310.1	3925.0
72.5°	289.4	292.7	327.0	358.9	372.8	360.5	381.8	2373.3	2545.0	3682.2	3629.9
75°	242.0	245.3	275.5	318.0	324.6	286.1	313.1	1243.5	1365.3	2699.5	3175.3
77.5°	198.7	201.1	228.1	257.5	298.4	219.9	254.3	468.4	580.5	1667.8	2285.8
80°	136.5	143.1	172.5	199.5	228.1	199.5	190.5	268.2	283.7	809.4	1168.3
82.5°	103.8	105.5	134.1	145.5	161.1	197.0	149.6	201.9	213.4	376.9	379.3
85°	71.9	70.3	94.8	101.4	112.0	124.3	125.1	147.2	152.1	217.5	159.4
87.5°	32.7	31.1	51.5	49.9	56.4	61.3	89.1	80.9	82.6	136.5	85.8
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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	1.6	1.6	1.6	2.5	2.5	2.5	1.6	0.8	0.8	0.8	0.8
5°	1.6	1.6	1.6	2.5	2.5	3.3	4.1	4.1	4.9	5.7	5.7
7.5°	4.1	3.3	3.3	3.3	4.9	7.4	19.6	85.0	148.8	157.0	159.4
10°	18.0	18.0	13.1	10.6	12.3	134.1	173.3	179.0	182.3	183.9	183.9
12.5°	223.2	249.3	233.0	125.1	134.9	166.8	185.6	189.7	194.6	236.3	244.4
15°	271.4	273.9	276.3	256.7	355.6	262.4	219.1	331.1	336.8	339.3	338.5
17.5°	412.0	419.4	387.5	345.0	377.7	390.8	318.8	349.1	354.8	359.7	359.7
20°	534.7	535.5	502.0	537.1	459.5	475.8	415.3	394.1	506.1	511.0	510.1
22.5°	658.9	668.7	553.5	573.1	604.2	504.4	524.9	467.6	492.2	492.2	491.3
25°	815.9	812.6	758.7	663.0	634.4	596.8	538.8	488.1	555.1	587.0	587.0
27.5°	967.1	920.5	790.6	762.8	727.6	626.2	532.2	560.0	544.5	548.6	547.8
30°	1142.1	1128.2	1010.5	908.3	747.2	608.2	556.7	506.9	533.9	565.7	562.5
32.5°	1230.4	1194.4	1053.8	1097.1	783.2	586.2	484.8	476.6	484.8	496.2	497.9
35°	1346.5	1287.6	1149.5	1157.6	788.9	514.2	431.7	426.8	471.7	493.0	495.4
37.5°	1496.1	1425.8	1309.7	1184.6	740.7	453.7	382.6	409.6	425.1	434.9	431.7
40°	1688.2	1604.8	1518.2	1192.0	659.8	391.6	355.6	377.7	392.4	394.9	394.9
42.5°	1923.7	1808.4	1732.4	1187.9	554.3	358.9	337.6	354.8	373.6	372.0	370.3
45°	2201.6	2062.6	1907.3	1160.1	451.3	340.9	328.7	340.1	354.0	348.3	345.8
47.5°	2501.7	2352.1	2061.8	1103.7	384.2	327.8	323.7	323.7	339.3	337.6	336.8
50°	2805.8	2652.1	2223.7	1017.0	347.5	316.4	307.4	318.0	336.0	332.7	331.1
52.5°	3106.6	2968.5	2349.6	896.8	324.6	306.6	300.9	314.8	331.1	327.8	327.0
55°	3383.8	3294.7	2484.5	801.2	300.9	289.4	300.9	312.3	325.4	322.1	322.1
57.5°	3669.9	3643.8	2652.9	725.2	281.2	276.3	297.6	308.2	318.8	317.2	317.2
60°	3956.9	4028.8	2807.4	644.2	265.7	260.8	291.0	303.3	312.3	311.5	311.5
62.5°	4234.0	4367.3	2929.2	549.4	251.0	248.5	282.9	296.8	304.1	305.8	305.8
63°	4279.0	4410.6	2947.2	521.6	247.7	246.9	281.2	295.1	301.7	304.1	304.1
65°	4362.4	4516.1	2975.8	429.2	233.8	237.9	272.2	289.4	293.5	299.2	297.6
67.5°	4287.2	4415.5	2890.8	331.1	216.6	224.8	258.3	277.1	281.2	289.4	285.3
70°	4118.8	4110.6	2603.0	269.8	203.6	210.9	242.8	263.2	264.9	273.1	264.9
72.5°	3801.6	3513.8	2051.2	228.9	190.5	197.0	226.5	246.1	246.9	250.2	242.0
75°	3177.8	2733.0	1232.8	197.8	174.1	179.0	208.5	224.8	227.3	222.4	218.3
77.5°	2169.7	1718.5	561.6	173.3	159.4	160.2	186.4	201.1	201.9	191.3	191.3
80°	1044.0	805.3	233.8	155.3	144.7	141.4	163.5	175.0	174.1	161.9	157.0
82.5°	330.3	294.3	174.1	135.7	129.2	121.8	142.3	147.2	148.0	148.8	119.4
85°	131.6	136.5	134.9	112.0	108.7	92.4	113.6	120.2	117.7	98.9	84.2
87.5°	68.7	84.2	82.6	75.2	77.7	58.9	78.5	75.2	76.8	51.5	40.1
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)