

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: P239826

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
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-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5606 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

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

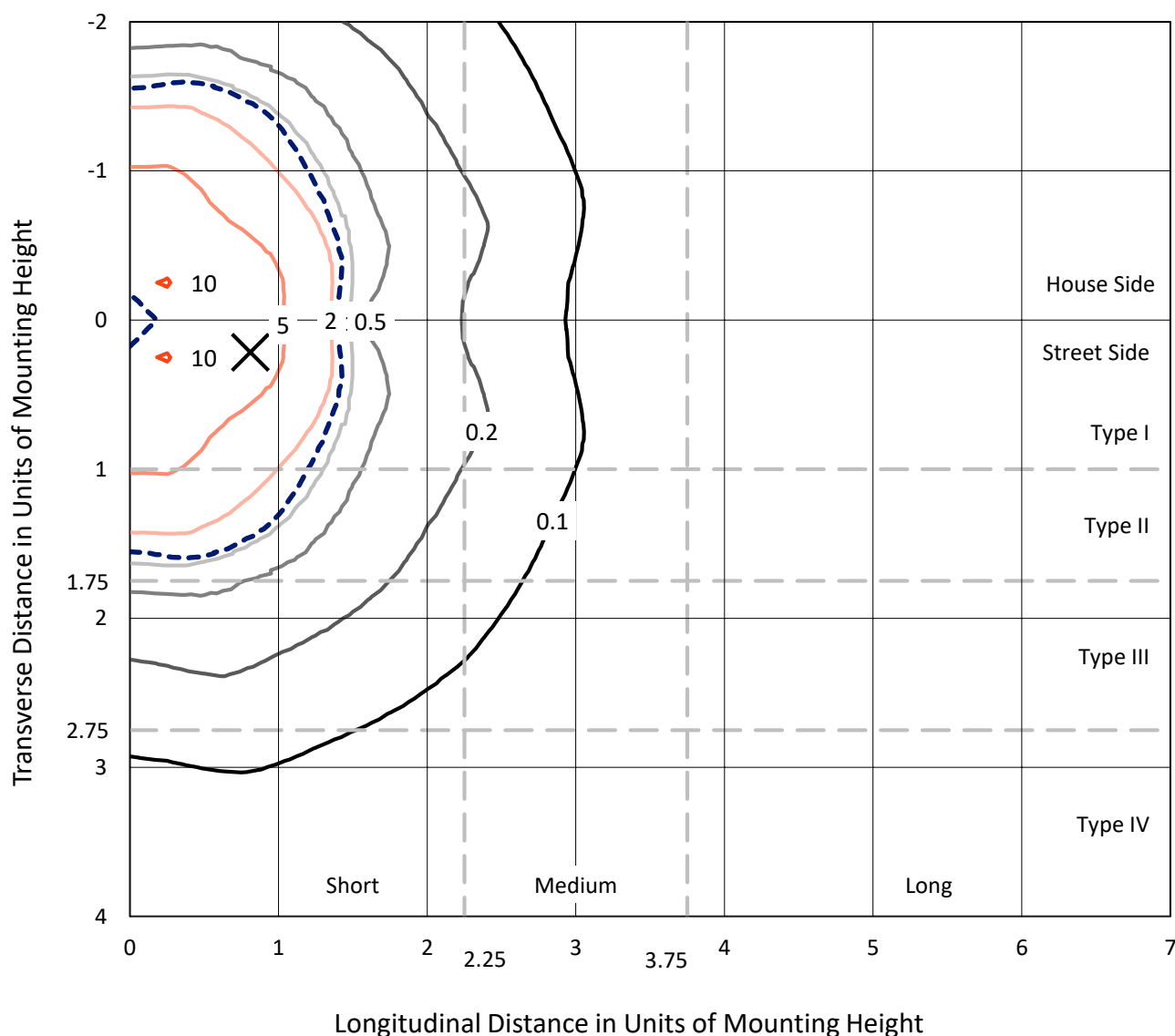


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

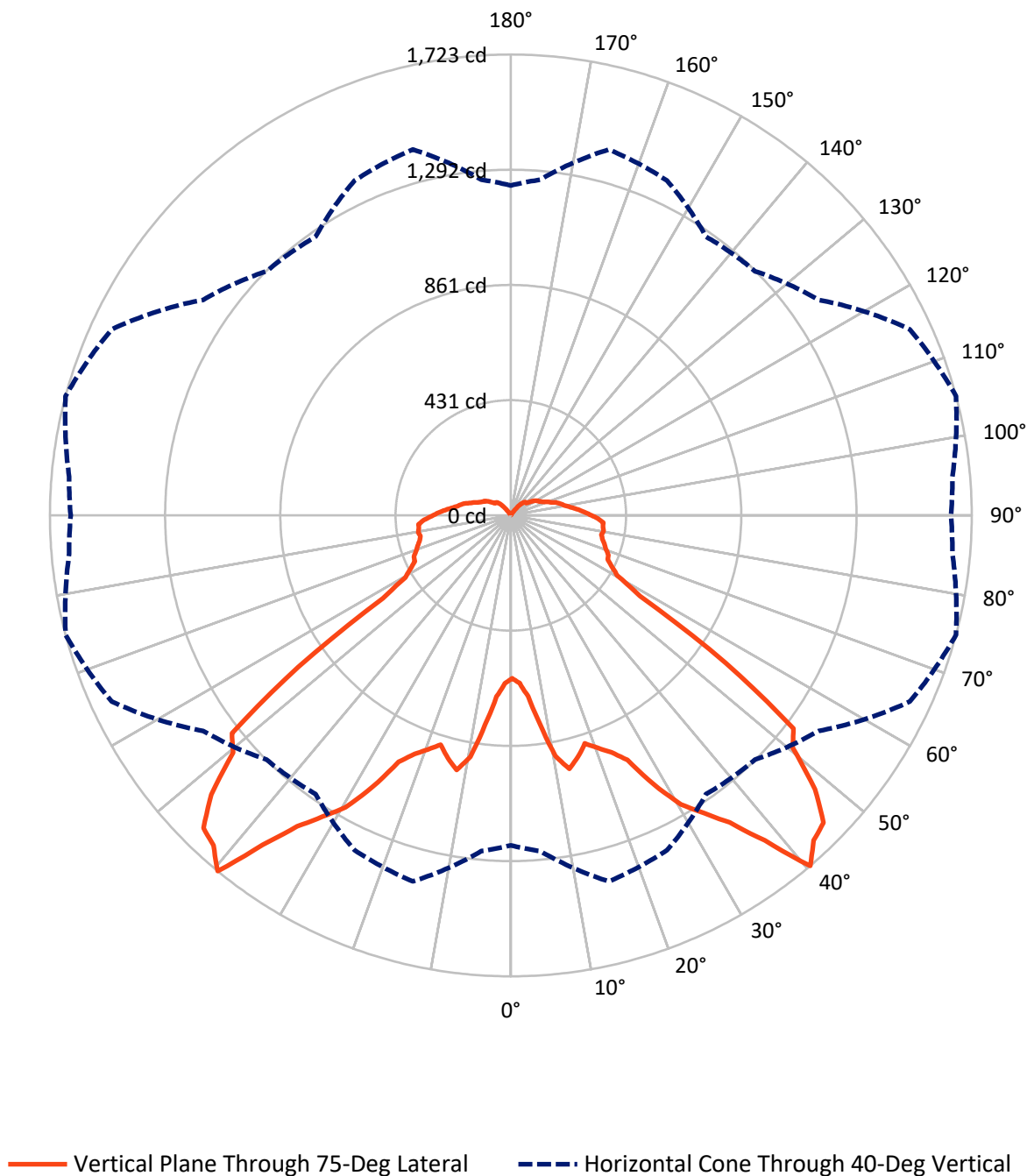


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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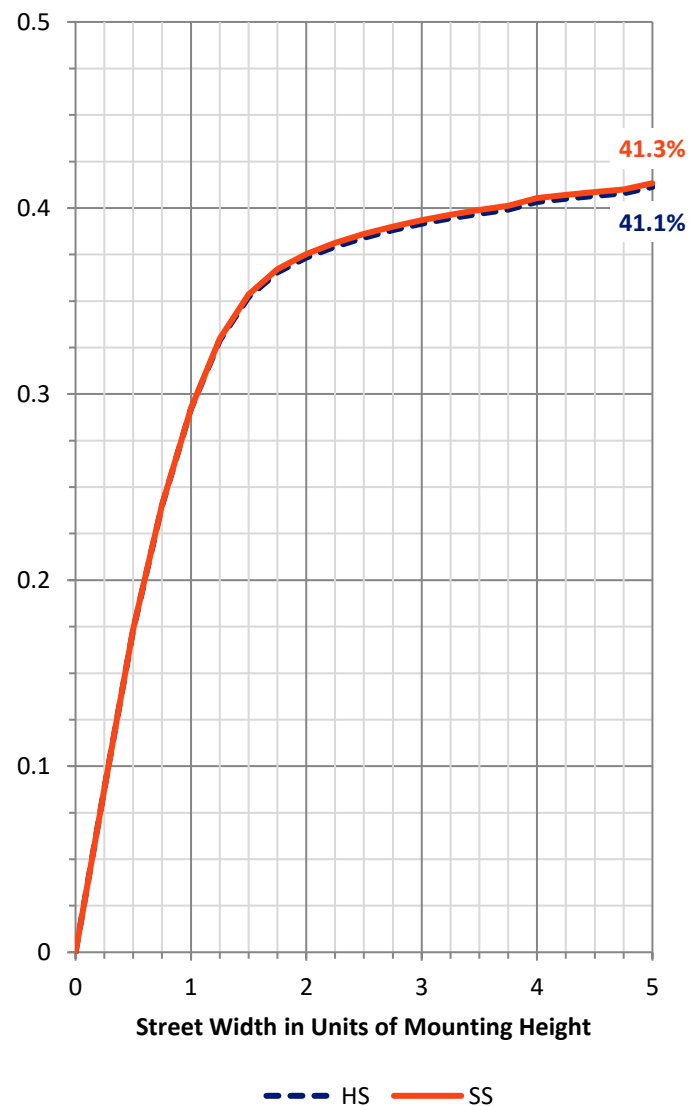
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2423.2	379.8	2803.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2423.2	379.8	2803.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	4846.4	759.5	5606.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.3
10°-20°	292.0	5.2
20°-30°	521.6	9.3
30°-40°	825.7	14.7
40°-50°	1107.9	19.8
50°-60°	881.9	15.7
60°-70°	404.7	7.2
70°-80°	369.0	6.6
80°-90°	371.7	6.6
90°-100°	285.8	5.1
100°-110°	199.6	3.6
110°-120°	131.8	2.4
120°-130°	82.4	1.5
130°-140°	48.2	0.9
140°-150°	10.9	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4846.4	86.5
0°-180°	5606.0	100.0

Coefficient of Utilization



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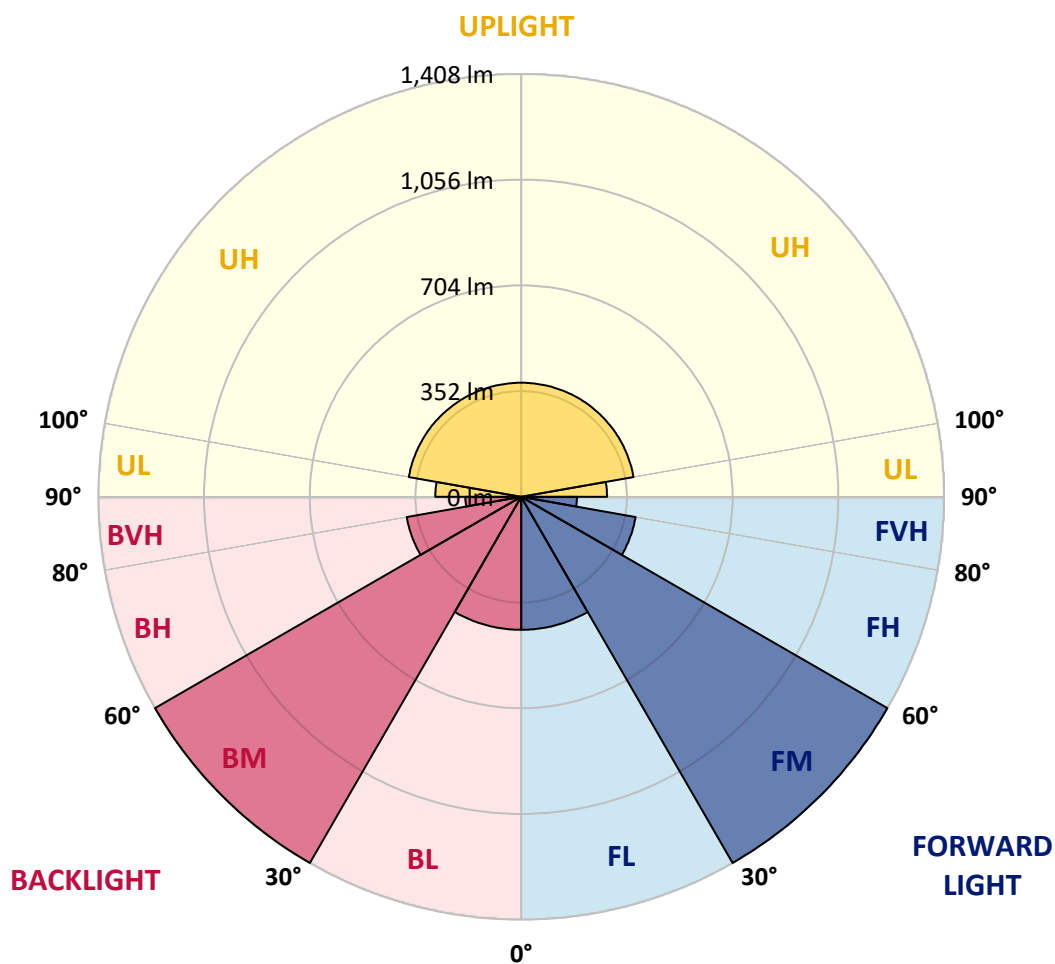
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.7	7.9			
FM	(30°-60°)	1407.8	25.1			
FH	(60°-80°)	386.9	6.9			G0/660
FVH	(80°-90°)	185.9	3.3			G2/225
BL	(0°-30°)	442.7	7.9	B1/500		
BM	(30°-60°)	1407.8	25.1	B2/2500		
BH	(60°-80°)	386.9	6.9	B1/500		G0/660
BVH	(80°-90°)	185.9	3.3			G2/225
UL	(90°-100°)	285.8	5.1		U3/500	
UH	(100°-180°)	379.8	6.8		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1	609.1
2.5°	625.6	625.6	625.6	624.1	625.6	627.1	628.6	628.6	627.8	625.6	624.1
5°	669.6	669.6	668.9	670.4	670.4	667.4	668.9	674.1	679.3	675.6	674.1
7.5°	776.4	774.1	768.9	764.4	759.2	759.2	770.4	777.1	789.1	790.5	786.8
10°	883.9	886.8	889.8	889.8	902.5	916.7	926.4	923.4	914.5	907.7	903.3
12.5°	915.2	917.5	943.6	1009.3	1057.8	1097.4	1063.8	1013.0	972.7	946.6	943.6
15°	939.1	945.1	977.9	1060.0	1181.7	1214.6	1145.1	1016.0	937.6	900.3	892.1
17.5°	963.0	969.7	1024.9	1143.6	1239.9	1231.7	1148.1	1010.0	895.8	846.5	840.6
20°	942.1	949.6	1027.2	1186.2	1256.4	1216.8	1187.7	1057.8	927.9	871.2	864.5
22.5°	950.3	957.8	1036.1	1190.7	1234.0	1236.2	1191.4	1113.8	961.5	896.6	886.1
25°	965.2	971.2	1068.2	1224.3	1225.0	1219.0	1196.6	1154.1	1012.3	950.3	941.3
27.5°	965.2	970.5	1079.4	1210.1	1218.3	1204.9	1233.2	1248.9	1139.9	1084.7	1086.9
30°	1008.5	1011.5	1124.2	1208.6	1189.9	1200.4	1280.3	1328.0	1253.4	1164.5	1163.8
32.5°	1092.9	1107.1	1225.8	1260.1	1186.9	1196.6	1292.2	1375.8	1327.3	1220.5	1208.6
35°	1201.1	1204.9	1313.8	1304.9	1208.6	1203.4	1320.6	1451.2	1410.1	1304.9	1301.2
37.5°	1236.2	1241.4	1371.3	1347.4	1234.7	1239.2	1367.6	1543.0	1541.5	1457.2	1430.3
40°	1233.2	1259.4	1416.1	1381.0	1272.0	1290.7	1404.2	1646.0	1722.9	1657.2	1645.3
42.5°	1455.7	1469.1	1560.9	1434.0	1306.4	1306.4	1419.1	1625.9	1660.2	1534.8	1510.2
45°	1478.8	1478.1	1578.9	1477.3	1315.3	1284.7	1366.1	1549.0	1638.6	1555.7	1519.1
47.5°	1431.0	1449.7	1575.1	1452.7	1298.9	1223.5	1275.0	1460.9	1530.3	1402.7	1373.6
50°	1379.5	1393.7	1489.3	1340.0	1217.5	1163.8	1202.6	1337.0	1364.6	1210.8	1188.4
52.5°	1238.4	1239.9	1353.4	1235.5	1146.6	1091.4	1122.7	1247.4	1322.8	1175.7	1160.1
55°	1049.6	1069.7	1213.8	1140.7	1063.0	1015.2	1021.2	1042.1	975.7	755.5	704.0
57.5°	802.5	828.6	996.6	1000.3	940.6	864.5	780.8	661.4	569.6	365.8	351.6
60°	546.4	568.8	695.7	727.1	751.0	663.6	540.5	471.8	457.6	317.3	306.8
62.5°	338.2	356.8	475.5	486.7	539.0	484.5	428.5	407.6	424.0	303.1	295.6
65°	312.8	325.5	412.8	396.4	409.1	406.1	381.5	377.7	397.9	295.6	290.4
67.5°	302.3	312.8	382.2	370.3	375.5	380.0	362.8	365.8	393.4	301.6	295.6
70°	297.1	308.3	372.5	364.3	369.5	374.0	363.5	359.1	377.0	303.8	295.6
72.5°	293.4	305.3	357.6	352.3	366.5	378.5	368.0	358.3	365.8	305.3	297.1
75°	286.7	298.6	344.1	347.1	368.8	383.0	369.5	354.6	353.8	302.3	292.6
77.5°	285.2	298.6	330.0	348.6	369.5	388.2	377.7	356.1	346.4	303.8	291.9
80°	282.9	297.9	336.7	360.6	375.5	385.2	380.7	365.8	351.6	315.0	302.3
82.5°	295.6	309.1	342.6	369.5	374.0	372.5	372.5	362.8	347.1	315.8	303.8
85°	311.3	321.7	356.8	372.5	368.8	359.1	354.6	353.8	346.4	324.0	314.3
87.5°	308.3	315.8	339.7	354.6	356.1	336.7	337.4	332.9	324.7	302.3	294.1
90°	288.2	293.4	320.2	335.9	326.2	310.5	303.8	294.9	295.6	275.5	269.5
92.5°	274.7	280.7	300.1	309.1	307.6	281.4	277.0	276.2	271.7	254.6	250.8
95°	256.8	260.5	277.0	288.9	281.4	254.6	250.1	246.3	247.1	240.4	241.1
97.5°	252.3	255.3	267.2	265.0	252.3	229.2	226.2	224.7	224.0	220.2	219.5
100°	242.6	242.6	246.3	239.6	224.7	207.5	203.0	203.8	204.5	200.1	198.6
102.5°	226.2	226.9	228.4	222.5	208.3	190.4	185.9	189.6	191.1	189.6	188.9
105°	214.2	213.5	214.2	207.5	191.9	176.2	170.9	174.7	178.4	179.2	177.7
107.5°	196.3	195.6	195.6	188.9	176.9	164.2	159.8	157.5	157.5	157.5	157.5
110°	170.2	170.9	170.9	168.0	162.0	154.5	148.6	144.1	145.6	144.8	146.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	158.3	158.3	156.8	154.5	148.6	141.1	134.4	131.4	129.9	129.1	129.9
115°	145.6	146.3	141.8	140.3	134.4	129.9	123.2	120.9	120.9	123.2	124.7
117.5°	134.4	134.4	131.4	127.7	122.4	118.7	115.7	114.2	114.2	117.2	117.2
120°	121.7	121.7	118.7	114.2	112.0	106.7	107.5	106.7	109.0	112.7	113.5
122.5°	107.5	107.5	104.5	100.8	102.3	98.5	97.0	94.1	98.5	103.0	103.8
125°	95.6	94.8	91.8	87.3	93.3	93.3	89.6	79.9	85.8	89.6	90.3
127.5°	87.3	86.6	82.9	78.4	85.8	90.3	82.1	72.4	75.4	79.1	80.6
130°	82.9	82.1	78.4	73.2	75.4	85.8	73.9	69.4	73.2	76.9	76.9
132.5°	79.9	79.1	76.1	70.9	67.2	78.4	66.4	67.9	73.2	76.9	76.9
135°	73.9	73.9	70.2	62.7	53.7	57.5	53.7	61.2	67.2	70.2	70.9
137.5°	63.5	63.5	60.5	53.7	43.3	41.1	42.6	52.3	59.0	62.0	62.0
140°	50.0	49.3	46.3	40.3	28.4	19.4	27.6	39.6	46.3	49.3	49.3
142.5°	35.1	34.3	30.6	24.6	14.9	6.7	14.9	23.9	30.6	33.6	34.3
145°	22.4	22.4	19.4	14.9	7.5	2.2	6.0	14.2	18.7	21.6	21.6
147.5°	14.2	14.2	11.9	8.2	2.2	1.5	2.2	6.7	11.2	13.4	14.2
150°	8.2	8.2	6.0	3.0	1.5	0.7	1.5	2.2	4.5	6.7	6.7
152.5°	3.0	2.2	1.5	1.5	0.7	0.7	0.7	1.5	1.5	2.2	2.2
155°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
162.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)