

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: P240918

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-CL**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P240918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-43)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-100-D-U-5WQ-CL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8840.4 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G2

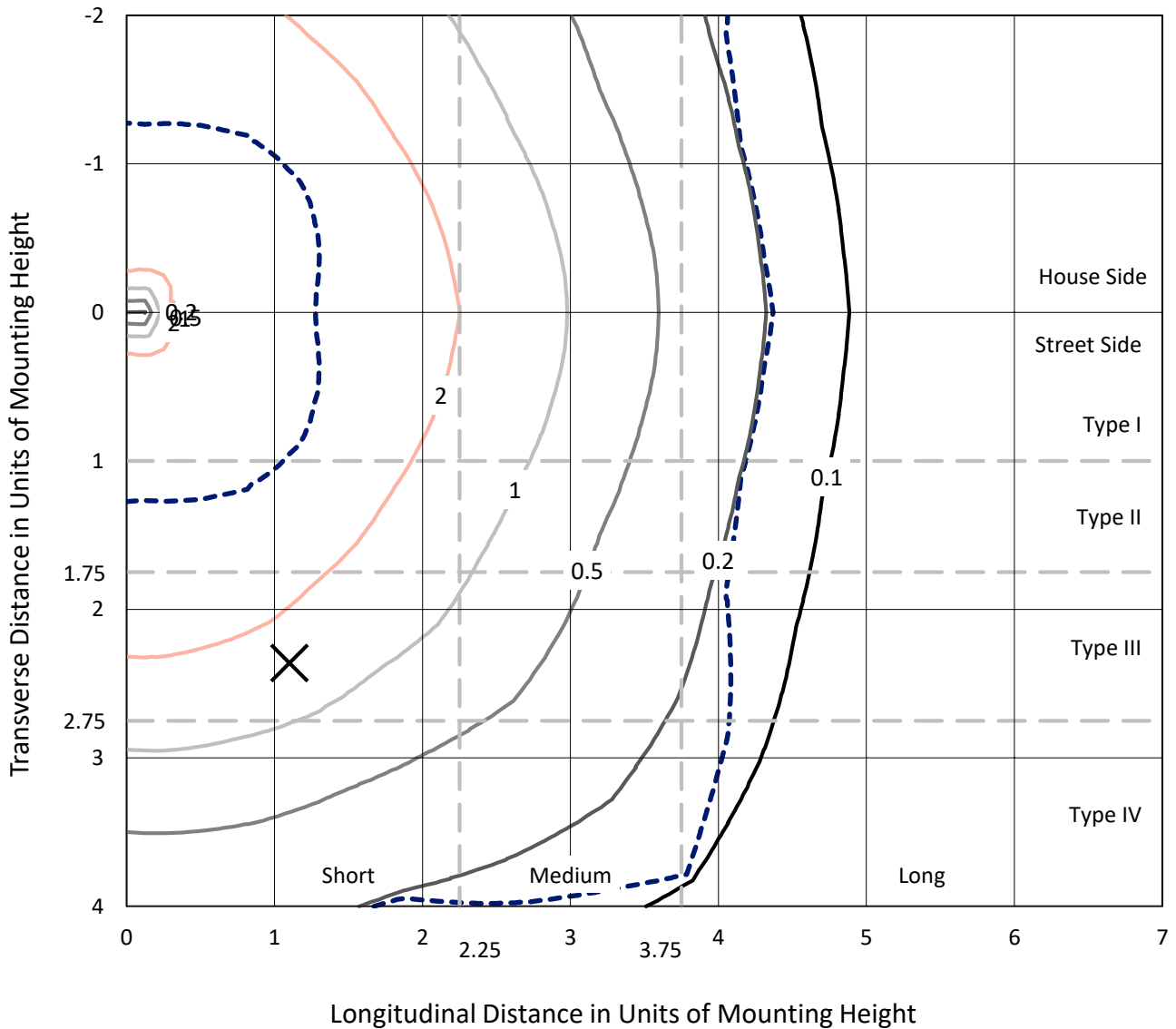
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

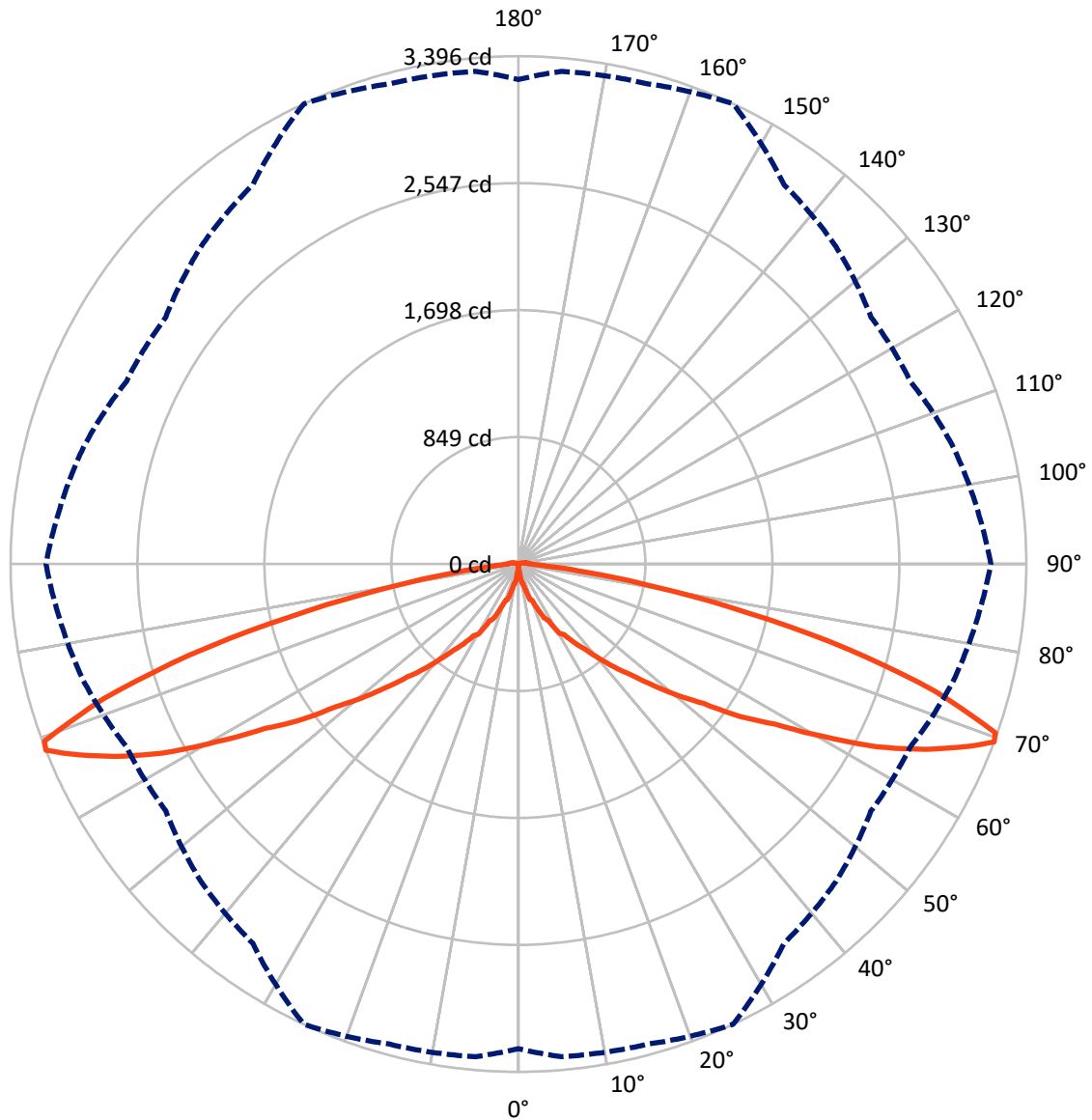
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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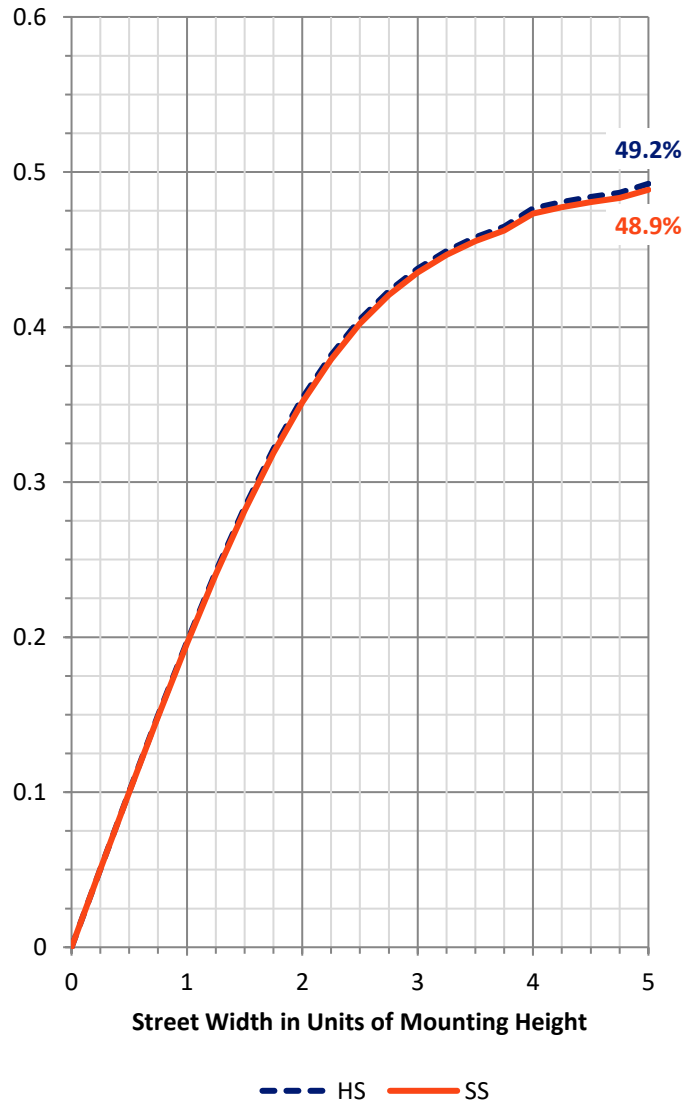
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4365.2	55.0	4420.2
	% Fixture	49.4	0.6	50.0
<b>Street Side</b>	Lumens	4365.2	55.0	4420.2
	% Fixture	49.4	0.6	50.0
<b>Total</b>	Lumens	8730.4	110.1	8840.4
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	52.2	0.6
20°-30°	194.3	2.2
30°-40°	441.1	5.0
40°-50°	845.6	9.6
50°-60°	1631.1	18.5
60°-70°	2806.1	31.7
70°-80°	2395.3	27.1
80°-90°	359.8	4.1
90°-100°	58.8	0.7
100°-110°	26.7	0.3
110°-120°	10.6	0.1
120°-130°	7.0	0.1
130°-140°	4.3	0.0
140°-150°	2.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8730.4	98.8
0°-180°	8840.4	100.0



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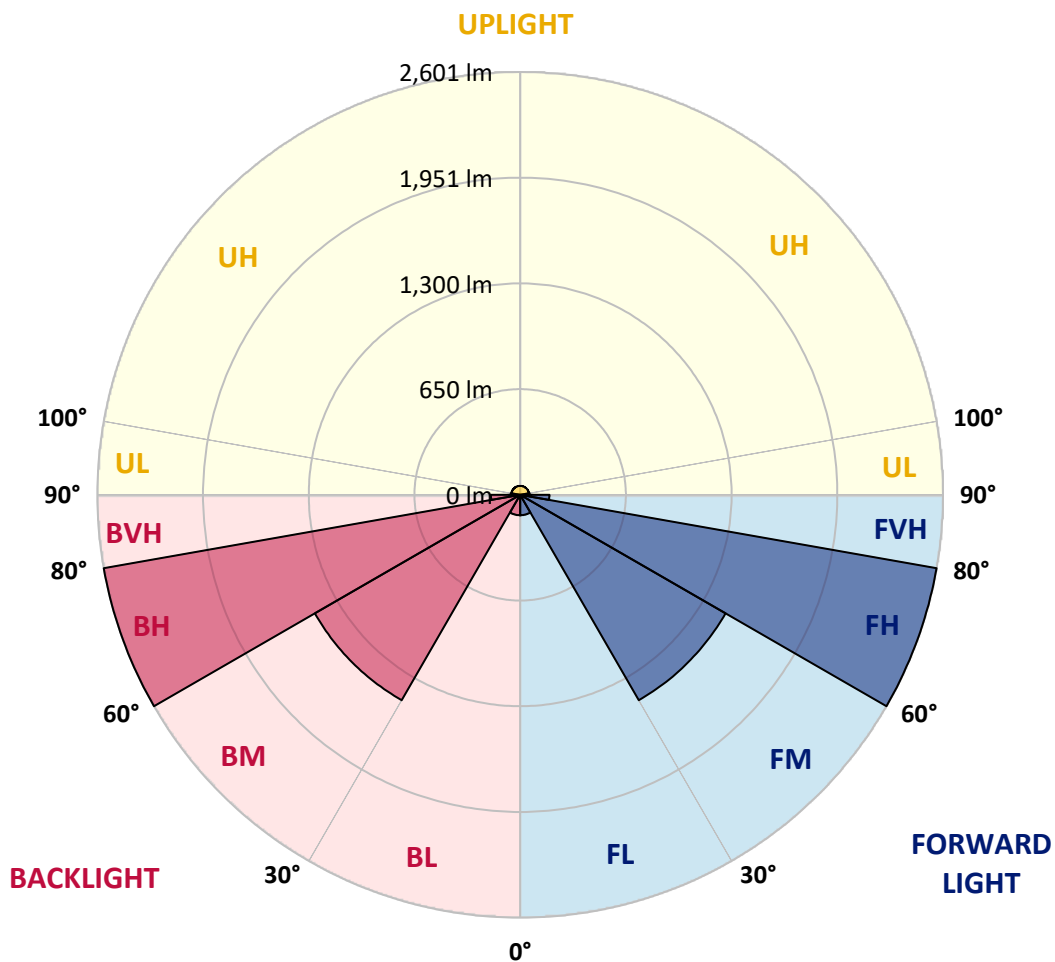
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.7	1.4			
FM	(30°-60°)	1458.9	16.5			
FH	(60°-80°)	2600.7	29.4			G2/5000
FVH	(80°-90°)	179.9	2.0			G2/225
BL	(0°-30°)	125.7	1.4	B1/500		
BM	(30°-60°)	1458.9	16.5	B2/2500		
BH	(60°-80°)	2600.7	29.4	B4/5000		G2/5000
BVH	(80°-90°)	179.9	2.0			G2/225
UL	(90°-100°)	58.8	0.7		U3/500	
UH	(100°-180°)	55.0	0.6		U3/500	

**BUG Rating: B4-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	39.9	39.9	39.9	37.8	37.8	41.9	28.6	22.5	21.5	18.4	18.4
5°	45.0	46.0	43.0	40.9	39.9	41.9	43.0	39.9	24.6	19.4	17.4
7.5°	75.7	81.8	74.7	66.5	63.4	44.0	38.9	43.0	32.7	20.5	19.4
10°	133.0	132.0	135.0	125.8	91.0	70.6	58.3	39.9	48.1	36.8	34.8
12.5°	135.0	133.0	134.0	134.0	129.9	116.6	84.9	93.1	100.2	107.4	103.3
15°	235.3	231.2	210.7	182.1	129.9	158.6	160.6	165.7	149.4	143.2	140.1
17.5°	266.0	262.9	258.8	248.6	226.1	198.5	195.4	195.4	219.9	248.6	232.2
20°	294.6	288.5	260.9	256.8	277.2	249.6	240.4	291.5	315.1	339.6	330.4
22.5°	413.3	425.5	416.3	321.2	299.7	299.7	334.5	347.8	349.8	361.1	352.9
25°	423.5	429.6	419.4	399.0	378.5	349.8	373.4	388.7	451.1	473.6	468.5
27.5°	539.1	543.2	489.0	428.6	432.7	418.4	420.4	478.7	536.0	540.1	562.6
30°	581.0	586.2	559.6	537.0	476.7	475.7	499.2	539.1	606.6	655.7	695.6
32.5°	712.0	689.5	616.8	564.7	538.1	529.9	548.3	624.0	697.7	738.6	787.7
35°	785.6	795.9	780.5	647.5	587.2	617.9	622.0	652.6	720.2	791.8	820.4
37.5°	903.3	906.3	805.1	724.2	645.5	697.7	720.2	721.2	808.1	893.0	916.6
40°	979.0	1007.6	942.1	827.6	719.1	751.9	756.0	842.9	923.7	979.0	1015.8
42.5°	1091.4	1090.4	1020.9	944.2	804.0	834.7	853.1	885.9	1017.8	1084.2	1121.1
45°	1215.2	1213.1	1150.7	1057.7	935.0	906.3	934.0	1027.0	1168.1	1223.3	1204.9
47.5°	1370.7	1379.9	1317.5	1212.1	1050.6	1101.6	1065.9	1191.6	1242.8	1313.4	1359.4
50°	1531.3	1540.5	1463.7	1378.8	1206.0	1210.0	1227.4	1325.6	1406.5	1518.0	1567.1
52.5°	1745.1	1753.2	1677.5	1548.6	1412.6	1425.9	1418.7	1469.9	1619.2	1734.8	1717.4
55°	1979.3	1976.2	1884.2	1800.3	1681.6	1636.6	1609.0	1743.0	1832.0	1921.0	1939.4
57.5°	2325.1	2289.3	2178.8	2018.2	1887.2	1913.8	1891.3	1930.2	2073.4	2204.4	2239.1
60°	2578.8	2601.3	2521.5	2340.4	2143.0	2133.8	2152.2	2225.8	2328.1	2410.0	2458.0
62.5°	2966.5	2945.0	2847.8	2691.3	2513.3	2523.5	2444.8	2502.0	2562.4	2678.0	2673.9
65°	3140.4	3135.2	3071.8	2989.0	2829.4	2769.0	2692.3	2720.9	2780.3	2842.7	2935.8
67.5°	3250.7	3314.2	3277.3	3252.8	3025.8	2978.7	2812.0	2857.0	2931.7	3012.5	3078.0
69°	3240.5	3307.0	3324.4	3396.0	3096.4	3002.3	2878.5	2891.8	3011.5	3107.6	3158.8
70°	3181.3	3266.1	3267.1	3384.7	3093.3	3079.0	2907.1	2886.7	3031.9	3124.0	3186.4
72.5°	2809.9	2865.2	2905.1	2920.4	2921.4	3081.0	2884.6	2724.0	2850.9	3036.0	3034.0
75°	2172.6	2234.0	2315.9	2288.2	2515.3	2796.6	2608.4	2331.2	2346.5	2448.8	2473.4
77.5°	1367.6	1373.7	1480.1	1565.0	1938.4	2228.9	2038.6	1660.1	1486.2	1489.3	1547.6
80°	781.5	783.6	842.9	930.9	1192.7	1529.2	1256.1	935.0	731.4	721.2	715.0
82.5°	373.4	365.2	387.7	459.3	618.9	772.3	628.1	357.0	285.4	314.0	318.1
85°	134.0	158.6	180.0	205.6	284.4	297.7	221.0	183.1	188.2	177.0	182.1
87.5°	83.9	85.9	102.3	110.5	118.7	123.8	138.1	123.8	125.8	104.3	98.2
90°	59.3	60.4	73.7	75.7	81.8	82.9	79.8	79.8	76.7	60.4	62.4
92.5°	46.0	45.0	57.3	64.4	70.6	66.5	69.6	60.4	58.3	44.0	43.0
95°	57.3	57.3	62.4	65.5	58.3	49.1	56.3	54.2	52.2	38.9	37.8
97.5°	32.7	34.8	47.1	50.1	49.1	39.9	48.1	49.1	47.1	33.8	28.6
100°	28.6	31.7	41.9	45.0	43.0	33.8	43.0	45.0	41.9	29.7	26.6
102.5°	25.6	27.6	34.8	38.9	34.8	25.6	34.8	37.8	34.8	24.6	22.5
105°	21.5	22.5	24.6	28.6	24.6	19.4	25.6	27.6	22.5	19.4	18.4
107.5°	18.4	18.4	17.4	19.4	17.4	15.3	18.4	19.4	16.4	16.4	16.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	17.4	16.4	13.3	13.3	13.3	12.3	13.3	14.3	13.3	15.3	15.3
112.5°	15.3	14.3	11.3	10.2	10.2	10.2	11.3	11.3	11.3	14.3	14.3
115°	14.3	13.3	10.2	8.2	9.2	9.2	9.2	9.2	10.2	13.3	14.3
117.5°	14.3	13.3	9.2	8.2	7.2	7.2	8.2	8.2	10.2	13.3	13.3
120°	13.3	12.3	9.2	7.2	6.1	6.1	7.2	8.2	10.2	13.3	13.3
122.5°	12.3	12.3	8.2	6.1	6.1	6.1	6.1	7.2	9.2	12.3	12.3
125°	11.3	11.3	8.2	6.1	5.1	5.1	6.1	7.2	9.2	12.3	12.3
127.5°	11.3	10.2	8.2	5.1	5.1	5.1	5.1	6.1	8.2	11.3	12.3
130°	10.2	10.2	7.2	5.1	4.1	4.1	5.1	6.1	8.2	10.2	11.3
132.5°	10.2	9.2	7.2	4.1	4.1	4.1	4.1	5.1	7.2	9.2	10.2
135°	8.2	8.2	6.1	4.1	3.1	3.1	4.1	5.1	6.1	8.2	9.2
137.5°	8.2	7.2	6.1	4.1	3.1	3.1	3.1	4.1	6.1	7.2	8.2
140°	7.2	7.2	5.1	4.1	3.1	3.1	3.1	4.1	5.1	6.1	7.2
142.5°	6.1	6.1	5.1	4.1	3.1	2.0	3.1	3.1	4.1	5.1	5.1
145°	6.1	6.1	5.1	3.1	2.0	2.0	2.0	3.1	4.1	4.1	5.1
147.5°	5.1	5.1	4.1	3.1	2.0	1.0	2.0	3.1	3.1	4.1	4.1
150°	4.1	4.1	3.1	2.0	1.0	0.0	1.0	2.0	3.1	3.1	3.1
152.5°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0	3.1
155°	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)