

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: McGRAW-EDISON

Report Number: P436834

Luminaire Tested: **TT-D4-735-U-T4-PM-HSS**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P436834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D4-735-U-T4-PM-HSS  
Description: TOPTIER LED SITE LUMINAIRE  
3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

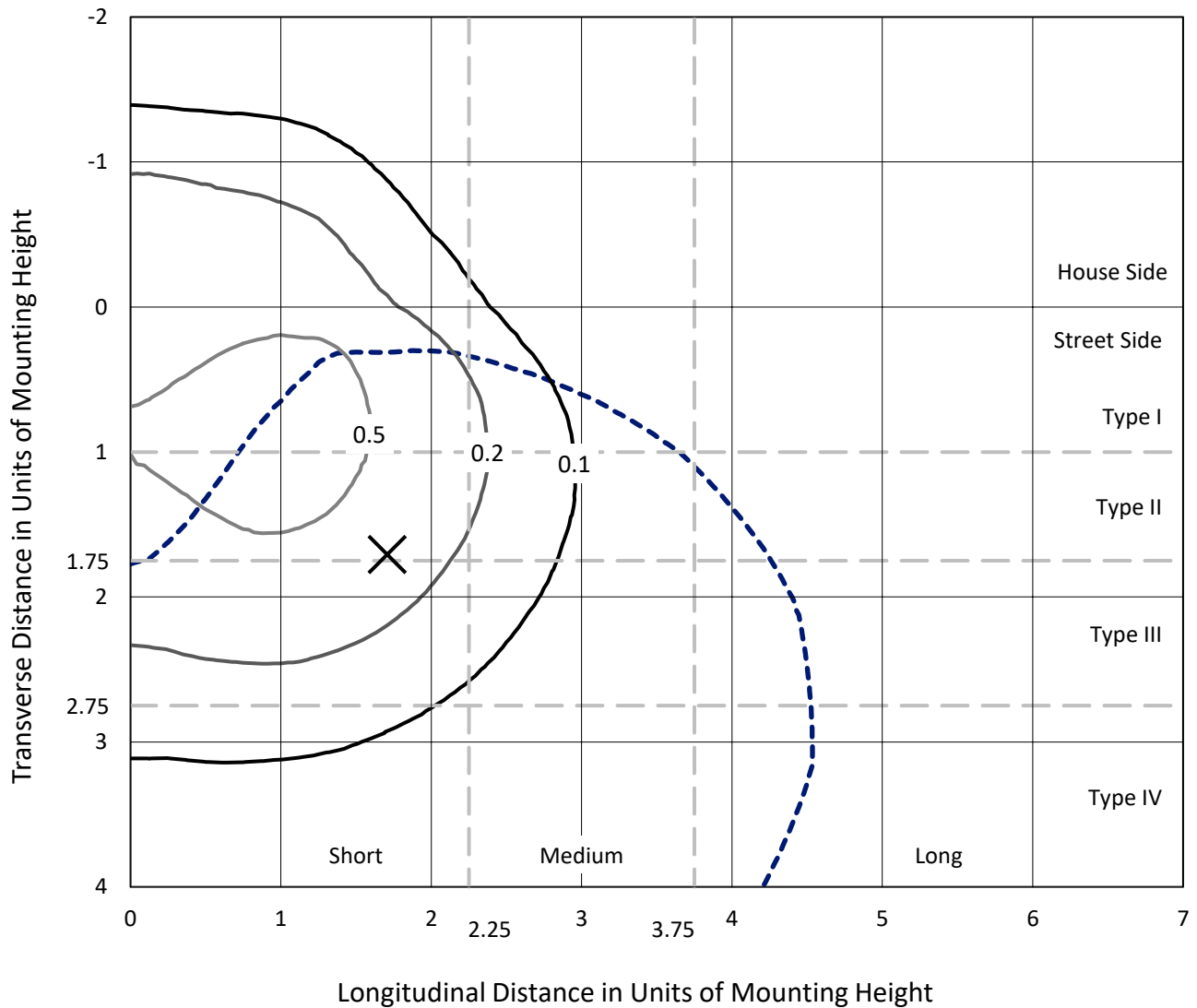
Lumens per Lamp: N/A  
Luminaire Lumens: 5261.9 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U1 - G3  
  
Input Watts (W): 59.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

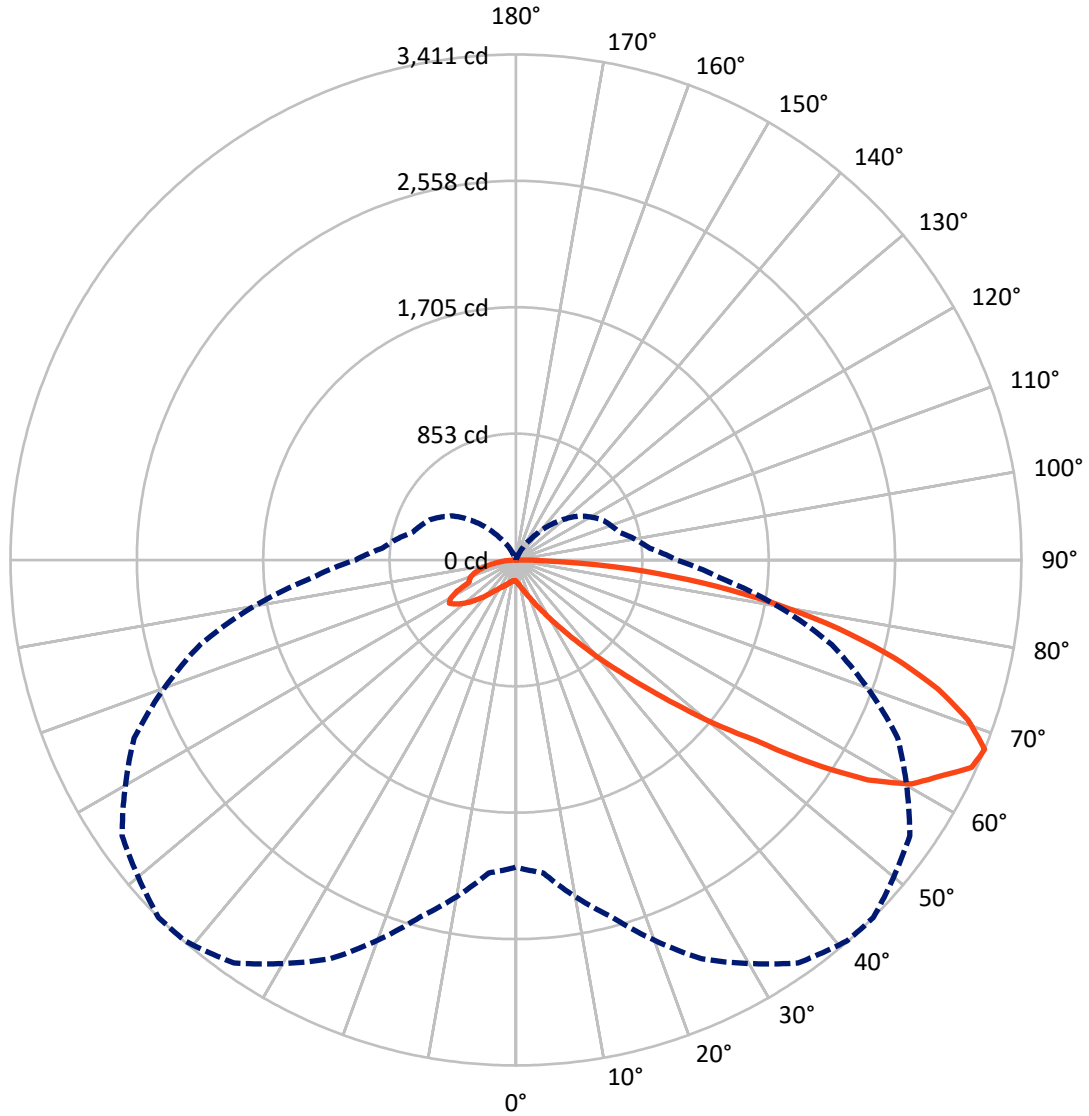
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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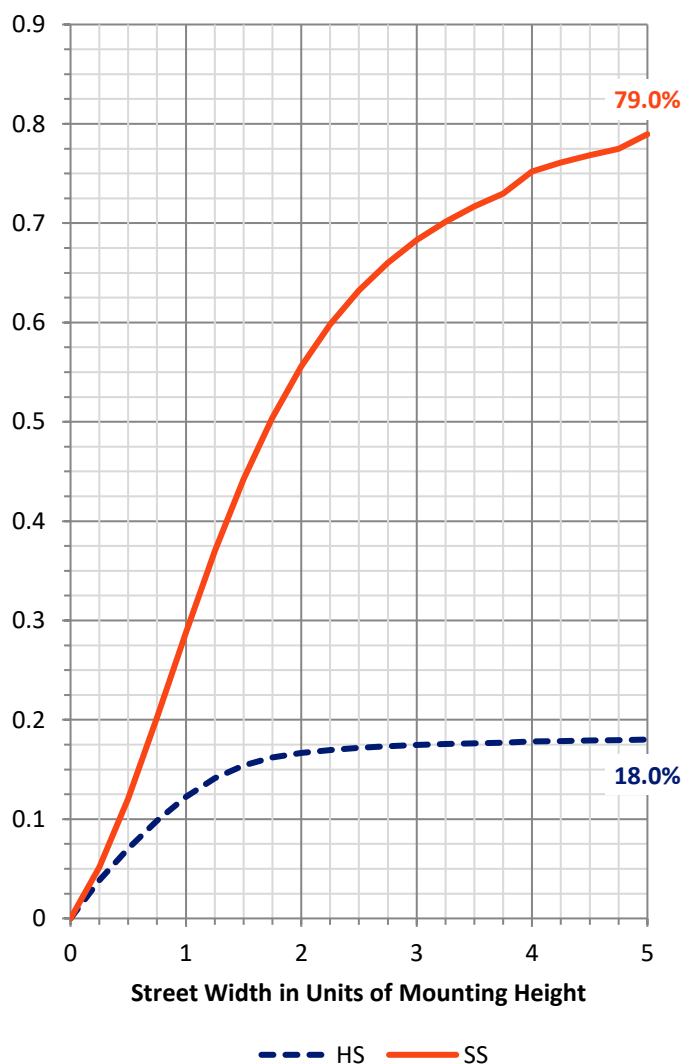
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	956.0	1.1	957.1
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	4293.2	11.7	4304.8
	% Fixture	81.6	0.2	81.8
<b>Total</b>	Lumens	5249.2	12.8	5261.9
	% Fixture	99.8	0.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	0.3
10°-20°	55.3	1.1
20°-30°	127.7	2.4
30°-40°	272.3	5.2
40°-50°	569.8	10.8
50°-60°	1081.0	20.5
60°-70°	1471.2	28.0
70°-80°	1264.9	24.0
80°-90°	392.2	7.5
90°-100°	8.3	0.2
100°-110°	2.4	0.0
110°-120°	0.7	0.0
120°-130°	0.5	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5249.2	99.8
0°-180°	5261.9	100.0

**Coefficient of Utilization**



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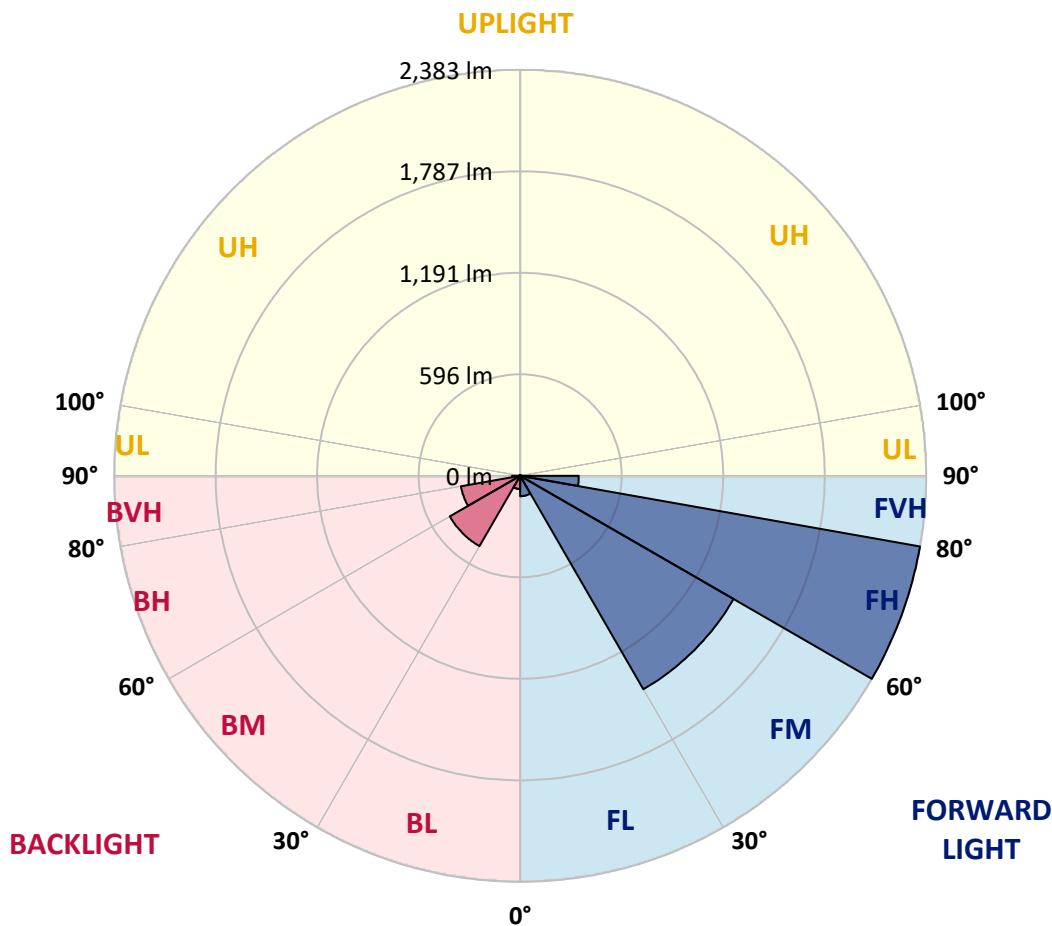
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.9	2.3			
FM (30°-60°)	1446.2	27.5			
FH (60°-80°)	2382.9	45.3			G2/5000
FVH (80°-90°)	344.2	6.5			G3/500
BL (0°-30°)	77.9	1.5	B0/110		
BM (30°-60°)	476.9	9.1	B1/1000		
BH (60°-80°)	353.1	6.7	B1/500		G1/500
BVH (80°-90°)	48.1	0.9			G1/100
UL (90°-100°)	8.3	0.2		U1/10	
UH (100°-180°)	4.5	0.1		U1/10	

**BUG Rating: B1-U1-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0
2.5°	156.3	155.1	155.1	154.0	154.0	151.8	151.8	150.7	149.6	148.4	146.2
5°	167.4	166.3	166.3	165.2	164.1	161.8	160.7	158.5	156.3	154.0	151.8
7.5°	180.8	179.7	179.7	178.6	176.3	173.0	171.9	168.5	165.2	161.8	158.5
10°	197.6	196.4	196.4	194.2	192.0	188.6	186.4	181.9	178.6	173.0	167.4
12.5°	215.4	214.3	214.3	212.1	207.6	205.4	203.1	197.6	192.0	185.3	178.6
15°	235.5	235.5	235.5	234.4	229.9	225.5	223.2	216.5	209.8	199.8	190.9
17.5°	261.2	260.1	260.1	257.8	252.2	250.0	246.7	238.9	228.8	217.6	206.5
20°	292.4	291.3	289.1	288.0	282.4	280.1	275.7	266.8	253.4	238.9	223.2
22.5°	323.7	323.7	322.6	323.7	319.2	317.0	311.4	299.1	283.5	262.3	243.3
25°	359.4	360.5	362.7	366.1	360.5	358.3	353.8	338.2	319.2	292.4	265.6
27.5°	404.0	404.0	409.6	415.2	410.7	409.6	402.9	386.2	359.4	327.0	295.8
30°	452.0	453.1	462.1	472.1	469.9	469.9	464.3	445.3	413.0	375.0	331.5
32.5°	507.8	512.3	521.2	532.4	540.2	540.2	538.0	517.9	479.9	428.6	375.0
35°	581.5	573.7	590.4	607.2	623.9	627.3	628.4	609.4	565.9	501.1	428.6
37.5°	645.1	644.0	669.7	698.7	726.6	737.8	741.1	723.2	667.4	582.6	486.6
40°	718.8	725.5	760.1	803.6	850.5	869.5	878.4	858.3	789.1	679.7	553.6
42.5°	795.8	815.9	859.4	925.3	996.7	1024.6	1034.6	1015.7	934.2	801.4	638.4
45°	886.2	914.1	972.1	1065.9	1159.7	1200.9	1223.3	1216.6	1132.9	967.7	747.8
47.5°	997.8	1017.9	1097.1	1223.3	1356.1	1424.2	1455.4	1474.4	1355.0	1139.6	843.8
50°	1123.9	1127.3	1236.7	1396.3	1590.5	1680.9	1735.6	1726.6	1584.9	1337.1	965.4
52.5°	1251.2	1247.8	1390.7	1607.2	1861.7	1980.0	2016.8	2053.7	1914.2	1638.5	1160.8
55°	1396.3	1389.6	1569.3	1843.8	2159.7	2316.0	2419.8	2471.1	2251.2	1837.1	1245.6
57.5°	1516.8	1538.0	1763.5	2093.8	2534.7	2731.2	2799.2	2771.3	2436.5	1937.6	1286.9
60°	1669.7	1701.0	1957.7	2420.9	2859.5	3005.7	3068.2	2941.0	2554.8	2013.5	1315.9
62.5°	1813.7	1853.9	2170.9	2686.5	3062.6	3196.6	3212.2	3073.8	2721.1	2163.0	1400.7
65°	1948.8	1994.5	2382.9	2843.9	3240.1	3351.7	3378.5	3269.1	2897.5	2251.2	1434.2
67.5°	2072.6	2120.6	2492.3	2970.0	3319.3	3405.3	3410.9	3244.6	2842.8	2205.5	1380.6
70°	2167.5	2188.7	2544.8	2966.7	3225.6	3259.1	3236.8	3069.3	2714.4	2111.7	1303.6
72.5°	2186.5	2202.1	2472.2	2801.5	2965.5	2996.8	2978.9	2831.6	2512.4	1944.3	1178.6
75°	2090.5	2093.8	2276.9	2504.6	2624.0	2662.0	2638.5	2502.3	2208.8	1707.7	1014.6
77.5°	1839.4	1846.1	1956.6	2109.5	2209.9	2242.3	2224.4	2099.4	1850.5	1434.2	839.3
80°	1457.7	1471.0	1550.3	1656.3	1747.8	1781.3	1760.1	1659.7	1456.5	1127.3	655.2
82.5°	993.3	1010.1	1082.6	1170.8	1251.2	1283.5	1265.7	1202.1	1050.3	812.5	467.7
85°	502.3	520.1	594.9	677.5	747.8	782.4	776.8	750.0	646.2	501.1	282.4
87.5°	79.2	87.1	118.3	157.4	200.9	233.3	213.2	210.9	167.4	133.9	68.1
90°	32.4	32.4	31.3	30.1	26.8	24.6	23.4	19.0	14.5	8.9	3.3
92.5°	29.0	29.0	27.9	25.7	23.4	22.3	20.1	16.7	12.3	7.8	3.3
95°	23.4	23.4	22.3	21.2	19.0	17.9	15.6	13.4	10.0	6.7	3.3
97.5°	17.9	17.9	16.7	15.6	14.5	12.3	12.3	10.0	6.7	4.5	2.2
100°	13.4	13.4	12.3	11.2	10.0	8.9	8.9	6.7	4.5	3.3	2.2
102.5°	8.9	8.9	8.9	7.8	6.7	6.7	5.6	4.5	3.3	2.2	2.2
105°	5.6	5.6	5.6	5.6	4.5	3.3	3.3	2.2	2.2	2.2	2.2
107.5°	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
110°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	1.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
115°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
117.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
120°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
122.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
125°	0.0	0.0	0.0	1.1	0.0	1.1	1.1	1.1	1.1	1.1	1.1
127.5°	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
142.5°	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
175°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
180°	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°	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0
2.5°	146.2	145.1	142.9	141.7	139.5	139.5	138.4	137.3	137.3	137.3	137.3
5°	149.6	148.4	146.2	144.0	141.7	139.5	138.4	137.3	137.3	137.3	136.2
7.5°	156.3	154.0	150.7	147.3	144.0	141.7	140.6	139.5	138.4	138.4	138.4
10°	164.1	161.8	156.3	152.9	148.4	145.1	144.0	142.9	141.7	141.7	141.7
12.5°	174.1	170.8	164.1	158.5	154.0	150.7	148.4	147.3	147.3	146.2	147.3
15°	186.4	181.9	173.0	166.3	160.7	157.4	155.1	154.0	154.0	154.0	152.9
17.5°	199.8	194.2	183.0	175.2	168.5	165.2	163.0	161.8	161.8	161.8	161.8
20°	215.4	207.6	195.3	185.3	178.6	174.1	171.9	171.9	170.8	171.9	171.9
22.5°	232.2	223.2	207.6	196.4	187.5	183.0	180.8	180.8	180.8	181.9	183.0
25°	252.2	241.1	222.1	207.6	197.6	193.1	190.9	192.0	192.0	193.1	193.1
27.5°	279.0	262.3	238.9	221.0	209.8	204.3	202.0	203.1	204.3	204.3	204.3
30°	309.2	289.1	256.7	237.7	224.3	217.6	215.4	216.5	217.6	219.9	218.8
32.5°	346.0	321.4	283.5	256.7	242.2	234.4	232.2	231.0	233.3	235.5	235.5
35°	390.6	359.4	314.7	283.5	262.3	252.2	250.0	248.9	250.0	252.2	254.5
37.5°	438.6	400.7	346.0	313.6	290.2	279.0	273.5	269.0	270.1	271.2	274.6
40°	493.3	446.4	381.7	342.6	321.4	308.0	300.2	293.5	295.8	295.8	296.9
42.5°	562.5	503.4	426.4	377.2	354.9	340.4	328.1	320.3	315.9	317.0	312.5
45°	652.9	579.3	482.2	426.4	395.1	372.8	358.3	342.6	331.5	333.7	327.0
47.5°	727.7	639.5	534.6	473.2	439.8	411.8	381.7	359.4	343.8	341.5	337.1
50°	819.2	713.2	594.9	524.6	488.9	446.4	410.7	372.8	347.1	340.4	341.5
52.5°	973.3	842.7	680.8	593.8	531.3	481.0	426.4	373.9	339.3	329.3	332.6
55°	1029.1	886.2	725.5	650.7	589.3	511.2	433.1	361.6	317.0	308.0	309.2
57.5°	1041.3	886.2	728.8	668.6	617.2	535.7	429.7	333.7	274.6	266.8	265.6
60°	1048.0	880.6	716.6	655.2	599.4	512.3	386.2	269.0	210.9	205.4	202.0
62.5°	1110.5	927.5	728.8	645.1	565.9	449.8	293.5	171.9	117.2	116.1	113.8
65°	1129.5	944.2	744.5	651.8	529.0	349.3	174.1	58.0	12.3	13.4	11.2
67.5°	1082.6	906.3	722.1	641.8	517.9	340.4	167.4	49.1	0.0	0.0	0.0
70°	1017.9	851.6	683.1	607.2	494.4	327.0	164.1	49.1	0.0	0.0	0.0
72.5°	915.2	773.5	620.6	560.3	454.3	300.2	152.9	46.9	0.0	0.0	0.0
75°	794.7	673.0	543.6	496.7	402.9	263.4	137.3	42.4	0.0	0.0	0.0
77.5°	665.2	561.4	454.3	418.5	340.4	224.3	116.1	35.7	0.0	0.0	0.0
80°	522.3	444.2	358.3	333.7	269.0	178.6	92.6	27.9	0.0	0.0	0.0
82.5°	376.1	322.6	264.5	244.4	197.6	129.5	67.0	19.0	0.0	0.0	0.0
85°	232.2	202.0	170.8	158.5	125.0	80.4	40.2	10.0	0.0	0.0	0.0
87.5°	69.2	67.0	60.3	59.2	42.4	24.6	8.9	1.1	0.0	0.0	0.0
90°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: TT-D4-735-U-T4-PM-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.1	1.1	1.1	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)