

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: P821345

Luminaire Tested: **TT-D1-735-12VDC-RW-PM-HSS**

Issue Date: 12/2/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D1-735-12VDC-RW-PM-HSS  
Description: TOPTIER LED SITE LUMINAIRE  
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

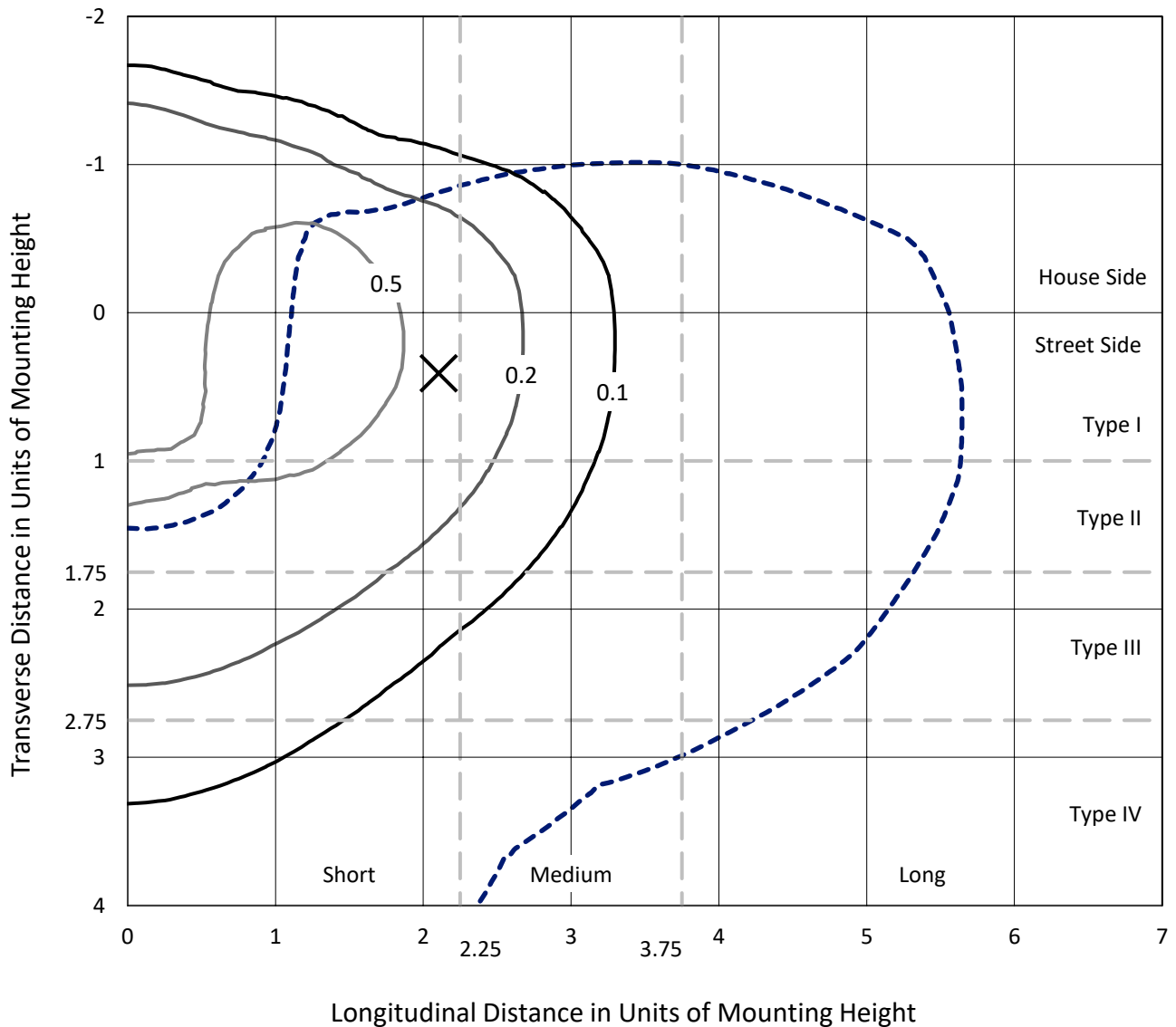
Lumens per Lamp: N/A  
Luminaire Lumens: 2311.1 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U1 - G2

Input Watts (W): 28  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

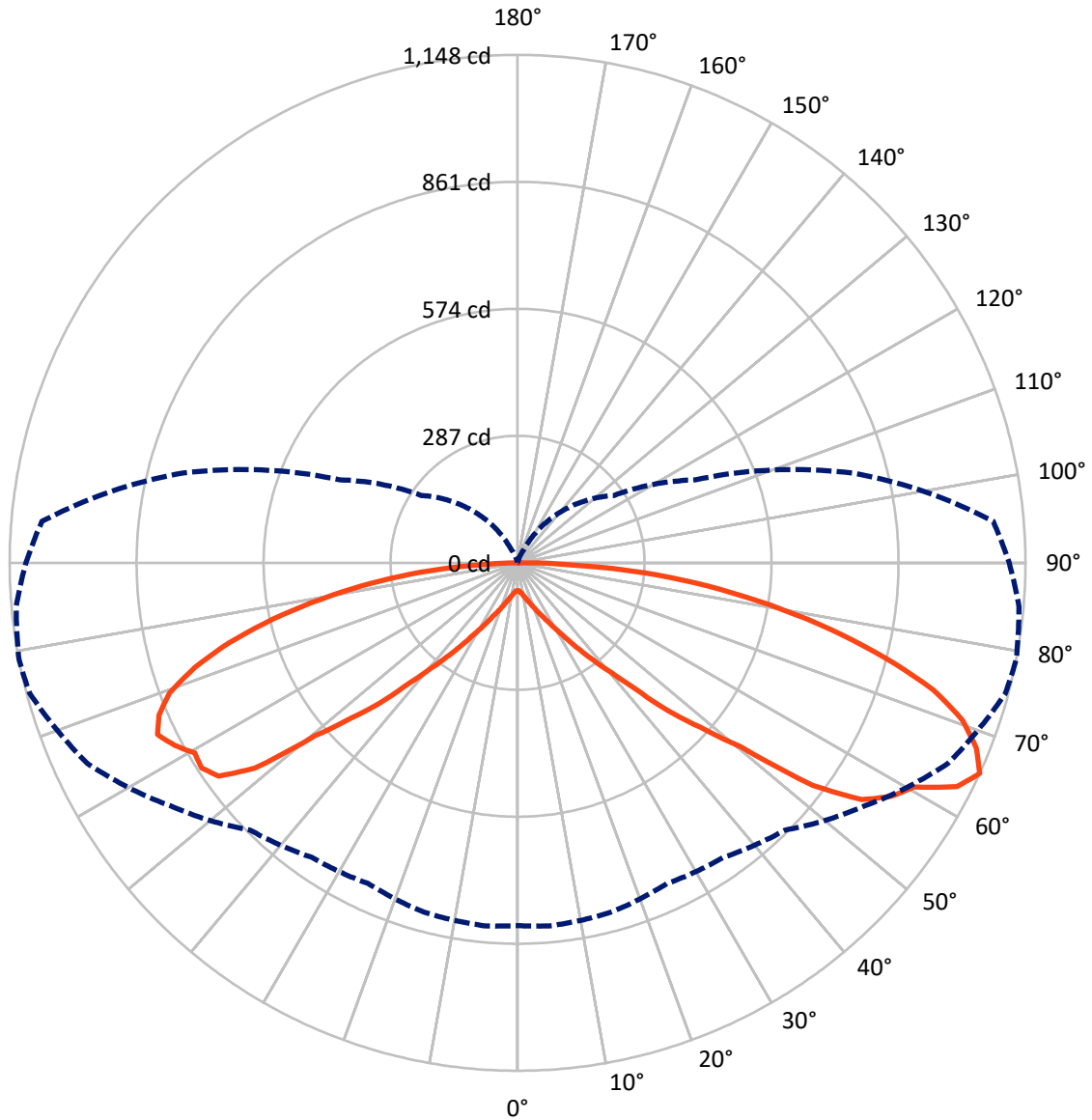
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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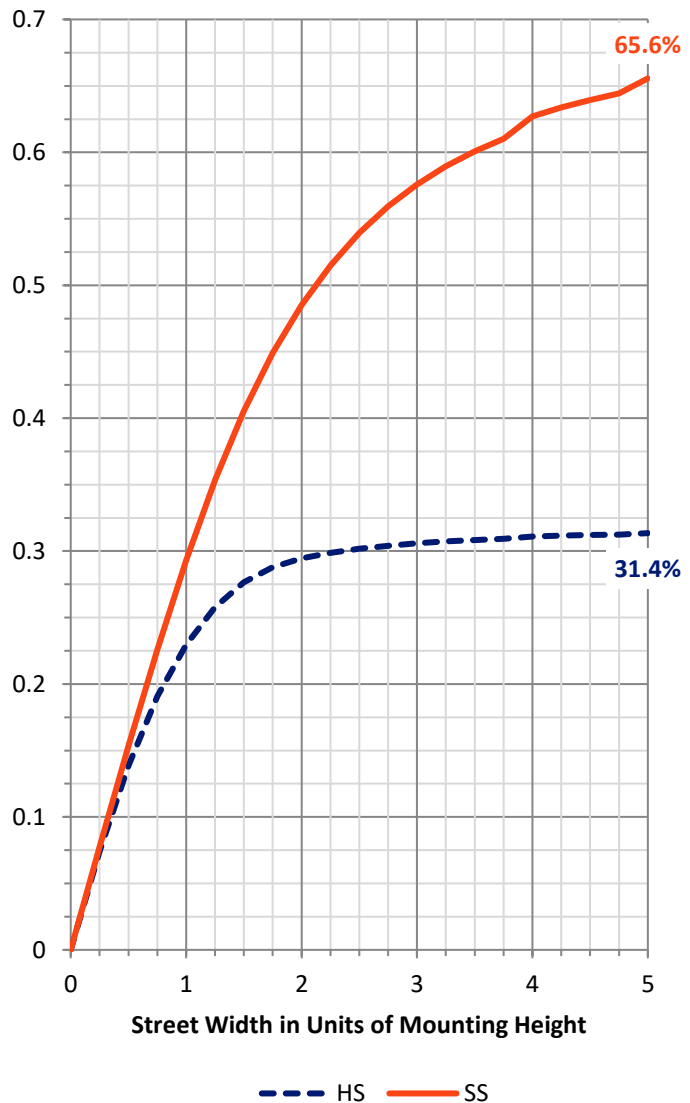
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	729.8	1.0	730.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	1570.1	10.2	1580.3
	% Fixture	67.9	0.4	68.4
<b>Total</b>	Lumens	2299.9	11.2	2311.1
	% Fixture	99.5	0.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	0.3
10°-20°	24.9	1.1
20°-30°	57.4	2.5
30°-40°	123.0	5.3
40°-50°	263.5	11.4
50°-60°	497.6	21.5
60°-70°	618.4	26.8
70°-80°	529.4	22.9
80°-90°	179.1	7.7
90°-100°	7.8	0.3
100°-110°	2.2	0.1
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.2	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2299.9	99.5
0°-180°	2311.1	100.0

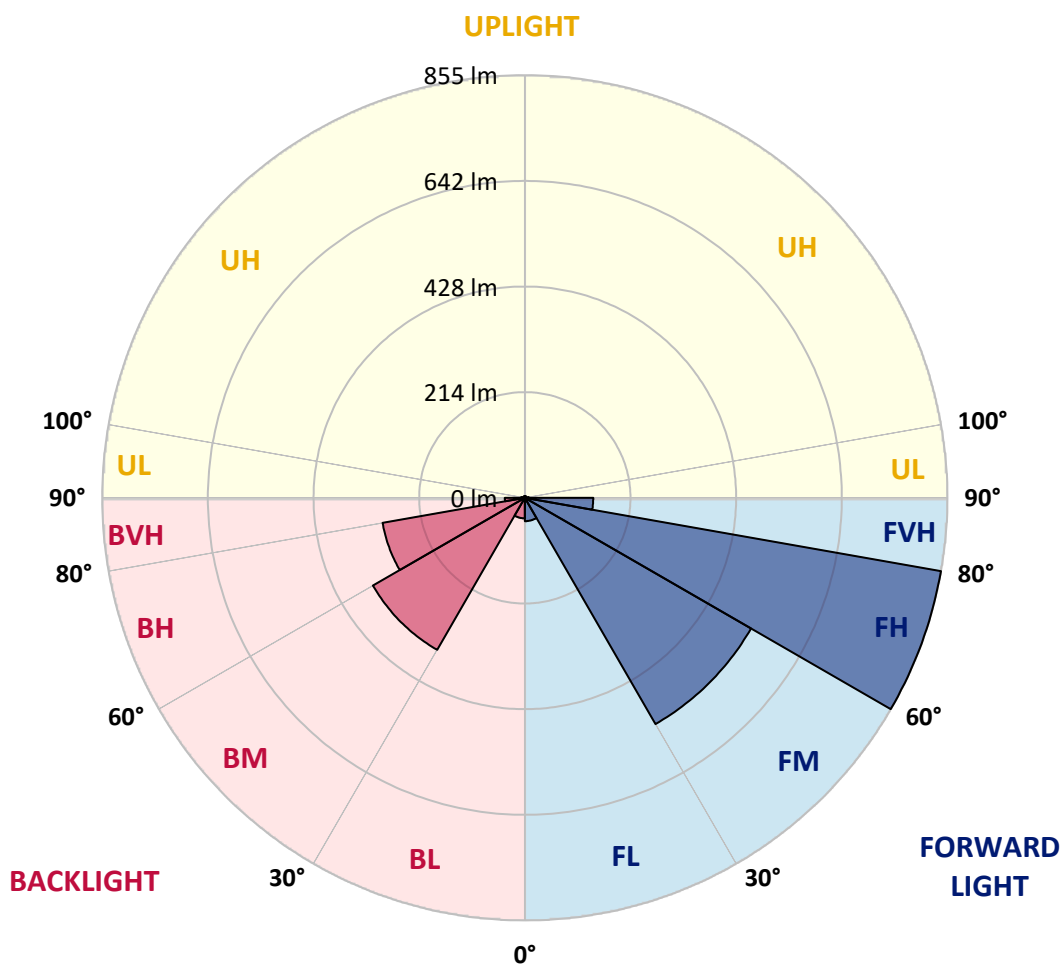


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.3	2.0			
FM (30°-60°)	528.9	22.9			
FH (60°-80°)	855.4	37.0			G1/1800
FVH (80°-90°)	138.5	6.0			G2/225
BL (0°-30°)	41.6	1.8	B0/110		
BM (30°-60°)	355.2	15.4	B1/1000		
BH (60°-80°)	292.4	12.7	B1/500		G1/500
BVH (80°-90°)	40.5	1.8			G1/100
UL (90°-100°)	7.8	0.3		U1/10	
UH (100°-180°)	3.4	0.1		U1/10	

**BUG Rating: B1-U1-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2.5°	66.2	66.2	66.2	65.6	65.6	65.6	65.1	64.5	63.9	63.9	63.9
5°	69.7	69.7	69.7	69.7	69.1	68.5	68.0	67.4	66.8	66.8	66.2
7.5°	74.3	73.7	74.3	73.7	73.7	73.1	72.6	72.0	70.8	70.8	70.3
10°	78.9	78.9	78.9	78.9	78.9	78.3	77.7	77.2	76.6	76.0	75.4
12.5°	84.7	84.7	84.7	84.1	84.7	84.1	83.5	83.5	82.9	81.8	81.8
15°	90.4	90.4	90.4	90.4	91.0	91.0	91.0	90.4	90.4	89.8	89.3
17.5°	97.3	96.7	97.3	97.3	97.9	98.5	99.0	99.6	99.6	99.0	99.0
20°	104.8	104.2	104.8	104.8	106.0	107.1	108.8	110.0	110.6	109.4	109.4
22.5°	112.9	112.3	113.4	113.4	115.2	116.9	119.8	120.9	122.7	122.1	122.1
25°	122.7	122.1	122.7	123.2	125.5	128.4	131.9	134.8	136.5	136.5	137.1
27.5°	133.6	133.6	134.2	134.8	137.1	141.7	146.8	152.0	156.1	155.5	156.1
30°	148.6	148.6	149.7	150.3	153.2	158.4	165.3	172.2	177.9	177.9	179.1
32.5°	165.3	164.7	166.4	167.0	169.9	176.8	186.6	197.5	205.0	205.0	206.2
35°	185.4	184.9	186.6	186.6	190.0	199.8	212.5	227.5	240.1	240.7	242.4
37.5°	210.8	209.6	209.6	211.3	215.4	228.0	245.3	266.0	279.3	280.4	283.3
40°	240.7	240.1	241.3	240.7	245.9	261.4	283.3	307.5	323.1	325.9	329.4
42.5°	277.6	278.7	277.0	277.0	283.3	301.2	327.1	355.3	383.5	387.0	388.7
45°	322.5	324.8	322.5	321.9	327.7	348.4	384.1	433.6	466.4	478.0	481.4
47.5°	376.6	377.8	374.9	373.7	380.1	406.6	452.6	507.9	546.5	555.1	564.3
50°	437.1	435.3	433.0	431.3	443.4	476.2	529.8	586.8	653.0	654.2	657.6
52.5°	499.3	494.1	494.7	494.1	510.8	546.5	617.9	714.6	815.4	836.1	838.4
55°	561.5	555.1	554.6	560.3	583.9	635.2	725.0	850.5	932.3	945.0	943.3
57.5°	623.7	620.8	619.6	624.8	659.4	720.4	821.7	927.7	997.4	996.2	984.1
60°	688.2	690.5	686.4	696.2	731.9	793.0	866.7	969.7	1034.2	1029.1	1017.0
62.5°	754.4	760.1	756.1	757.3	780.3	825.2	897.8	1017.5	1106.8	1114.3	1100.5
65°	820.0	824.1	817.7	799.9	812.5	854.6	958.2	1073.4	1141.4	1148.3	1137.9
67.5°	875.3	879.3	857.5	829.2	831.0	861.5	952.5	1062.5	1122.9	1118.3	1101.6
70°	922.5	915.0	879.3	831.0	810.8	825.2	911.0	1008.3	1069.9	1067.6	1048.1
72.5°	938.1	928.3	867.8	793.0	753.2	758.4	841.9	928.9	979.0	983.0	959.4
75°	913.3	896.6	813.7	719.8	668.6	672.0	743.4	823.5	863.8	859.2	840.8
77.5°	824.1	807.4	717.5	617.3	567.2	572.4	628.8	691.6	725.0	723.3	710.6
80°	684.1	669.1	590.3	497.0	451.5	454.4	497.5	547.1	573.0	578.7	571.8
82.5°	505.6	495.2	439.4	363.9	327.1	326.5	359.3	397.3	422.7	434.8	430.2
85°	312.7	307.5	276.4	227.5	201.6	201.0	220.6	248.8	271.8	287.9	277.6
87.5°	124.4	122.7	113.4	91.6	80.0	76.0	71.4	89.3	91.0	107.7	107.1
90°	30.5	29.9	29.4	27.6	24.8	21.3	17.3	12.7	8.1	6.3	3.5
92.5°	27.1	27.1	26.5	24.8	22.5	19.0	15.5	11.5	7.5	5.8	2.9
95°	21.9	21.9	21.3	20.2	17.9	15.5	12.1	9.2	5.8	4.6	2.3
97.5°	16.7	16.1	16.1	15.0	13.8	11.5	9.2	6.9	4.6	3.5	1.7
100°	12.1	12.1	11.5	10.9	9.8	8.6	6.9	5.2	2.9	2.3	1.2
102.5°	8.6	8.1	8.1	8.1	6.9	5.8	4.6	3.5	2.3	1.7	0.6
105°	5.8	5.2	5.2	5.2	4.6	4.0	2.9	2.3	1.2	1.2	0.6
107.5°	3.5	3.5	3.5	3.5	2.9	2.3	1.7	1.2	0.6	0.6	0.6
110°	1.7	1.7	1.7	2.3	1.7	1.7	1.2	0.6	0.6	0.6	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
115°	0.6	0.6	0.6	1.2	1.2	0.6	0.6	0.0	0.0	0.6	0.6
117.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
120°	0.0	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
122.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
125°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
127.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
130°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
132.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6
135°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.6	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	0.6	0.0	0.6	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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2.5°	63.3	63.3	63.3	62.8	62.8	62.8	62.2	62.2	61.6	61.6	61.6
5°	65.6	65.6	65.1	65.1	64.5	63.9	63.9	63.3	63.3	62.8	62.8
7.5°	69.7	69.7	69.1	68.5	67.4	66.8	66.2	65.6	65.6	65.1	65.1
10°	74.9	74.9	73.7	72.6	71.4	70.3	69.7	68.5	68.0	68.0	68.0
12.5°	81.2	80.6	79.5	77.7	76.6	74.9	73.7	72.6	71.4	71.4	71.4
15°	88.7	88.7	86.4	84.7	82.3	80.0	78.3	76.6	75.4	74.9	74.9
17.5°	97.9	97.9	95.0	92.1	89.3	86.4	84.1	81.8	80.6	80.0	80.0
20°	108.3	108.3	105.4	101.9	97.9	93.9	90.4	87.5	85.8	85.2	85.2
22.5°	120.9	120.9	116.9	112.3	107.1	101.4	96.7	93.3	91.6	90.4	90.4
25°	135.3	134.2	130.1	124.4	116.9	110.0	103.7	100.2	97.9	96.2	96.7
27.5°	154.9	153.2	148.0	138.2	129.0	119.8	112.3	107.7	104.8	103.7	104.2
30°	177.4	175.6	168.2	157.2	143.4	131.3	122.1	116.9	114.0	112.3	112.9
32.5°	204.4	202.1	192.9	177.9	161.8	144.5	133.0	126.7	123.8	122.1	121.5
35°	240.1	237.3	225.7	205.0	182.5	161.8	145.7	137.6	134.8	133.0	133.6
37.5°	280.4	276.4	260.9	235.5	207.3	180.8	162.4	152.0	148.6	145.7	145.7
40°	326.5	321.9	301.7	268.3	234.4	201.6	177.9	166.4	162.4	162.4	162.4
42.5°	384.1	379.5	356.5	307.5	262.6	224.0	195.8	182.5	178.5	179.7	179.7
45°	473.4	467.0	430.2	365.7	299.4	247.0	214.2	199.2	196.4	199.2	199.2
47.5°	555.1	547.1	492.9	419.8	335.7	270.1	232.6	215.4	214.2	220.6	220.6
50°	646.7	636.3	579.3	463.6	365.1	295.4	249.3	228.6	229.2	238.4	241.3
52.5°	824.1	813.1	714.6	543.0	396.8	304.6	256.3	231.5	231.5	241.9	245.9
55°	929.4	907.0	778.6	594.9	410.0	315.6	253.4	220.0	218.8	230.3	233.8
57.5°	964.0	941.0	791.8	579.9	401.4	301.7	236.7	188.9	186.6	201.6	200.4
60°	992.2	961.7	770.5	529.8	352.4	272.4	204.4	140.5	130.7	144.0	143.4
62.5°	1071.7	1038.8	771.7	471.1	294.8	227.5	153.8	78.9	58.7	69.1	64.5
65°	1111.4	1079.2	783.7	443.4	265.5	188.3	110.0	32.2	2.3	2.3	1.2
67.5°	1077.4	1048.6	768.2	436.5	261.4	187.2	111.7	31.7	0.0	0.0	0.0
70°	1027.9	1000.3	732.5	412.3	248.2	180.2	109.4	31.7	0.0	0.0	0.0
72.5°	941.0	912.7	670.9	377.8	228.0	165.3	101.4	29.9	0.0	0.0	0.0
75°	826.4	805.0	592.6	332.8	201.0	145.7	89.8	26.5	0.0	0.0	0.0
77.5°	699.7	674.3	497.0	277.0	168.2	120.9	76.0	21.9	0.0	0.0	0.0
80°	561.5	543.0	391.6	217.1	130.1	94.4	59.3	16.7	0.0	0.0	0.0
82.5°	417.5	401.9	289.7	155.5	92.7	65.6	40.9	10.9	0.0	0.0	0.0
85°	274.1	270.1	186.0	94.4	55.3	36.3	21.9	5.2	0.0	0.0	0.0
87.5°	99.0	102.5	68.0	27.1	15.0	6.3	2.9	0.6	0.0	0.0	0.0
90°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
92.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
95°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
97.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
100°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
102.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
105°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
107.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
110°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: TT-D1-735-12VDC-RW-PM-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
115°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
117.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
120°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
122.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
125°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
127.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
132.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
135°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.6	0.6	0.6	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)