

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: P821189

Luminaire Tested: **TT-D3-735-24VDC-RW-PM-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P821189
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-D3-735-24VDC-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: 3792.9 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 - U2 - G3

Input Watts (W): 46
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: 25 FT

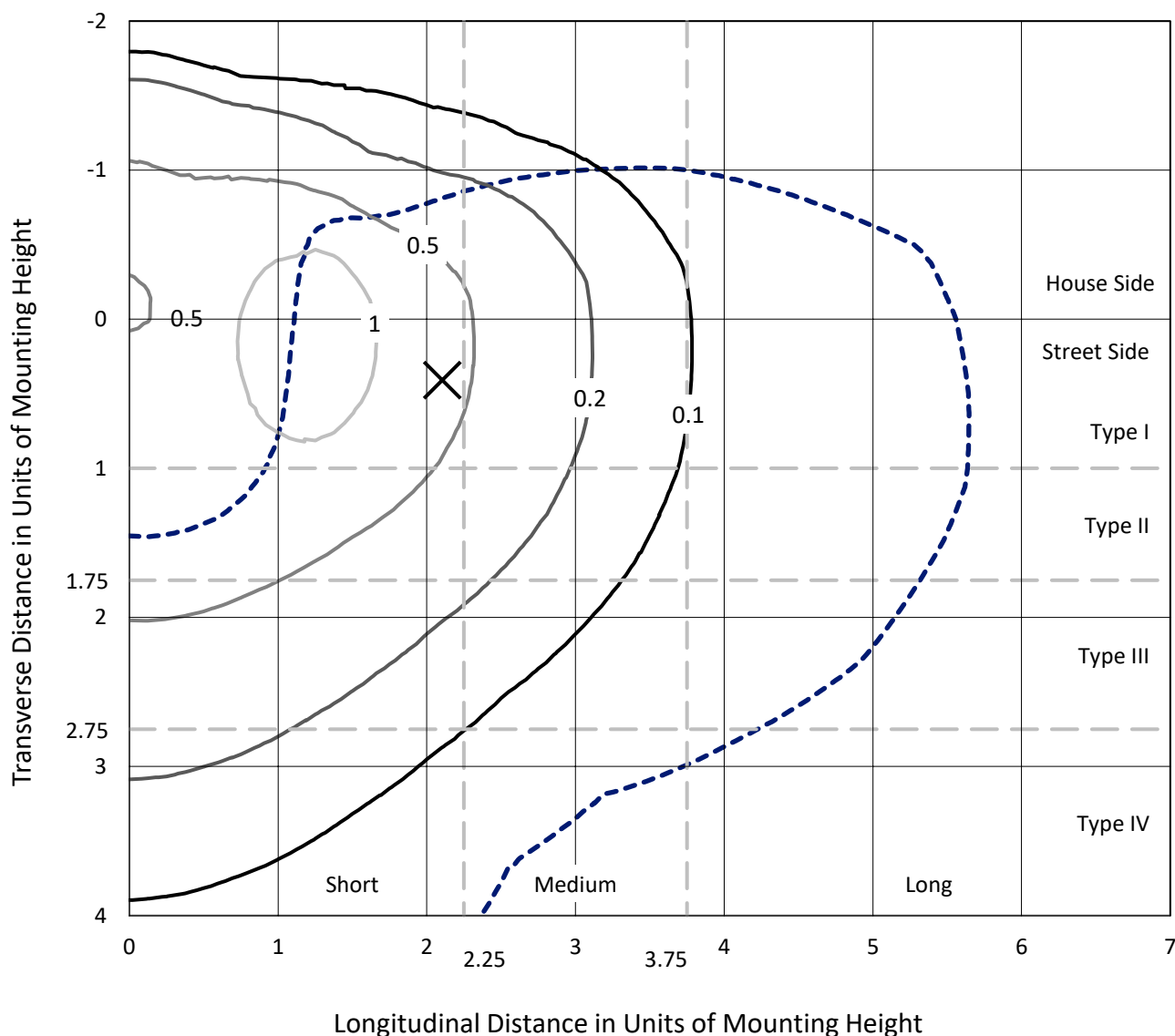
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

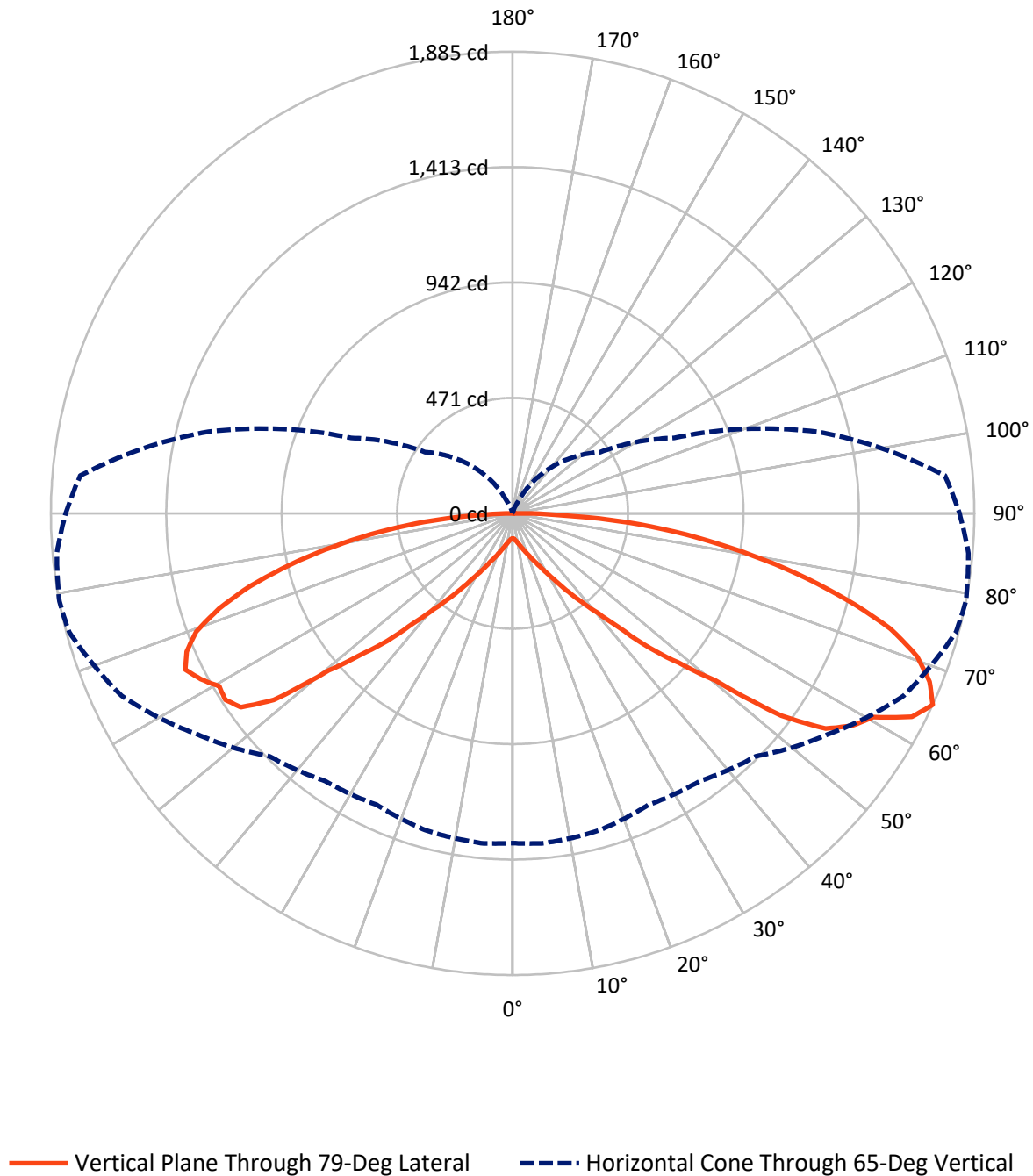


Based on 15 foot mounting height. Maximum calculated value = 1.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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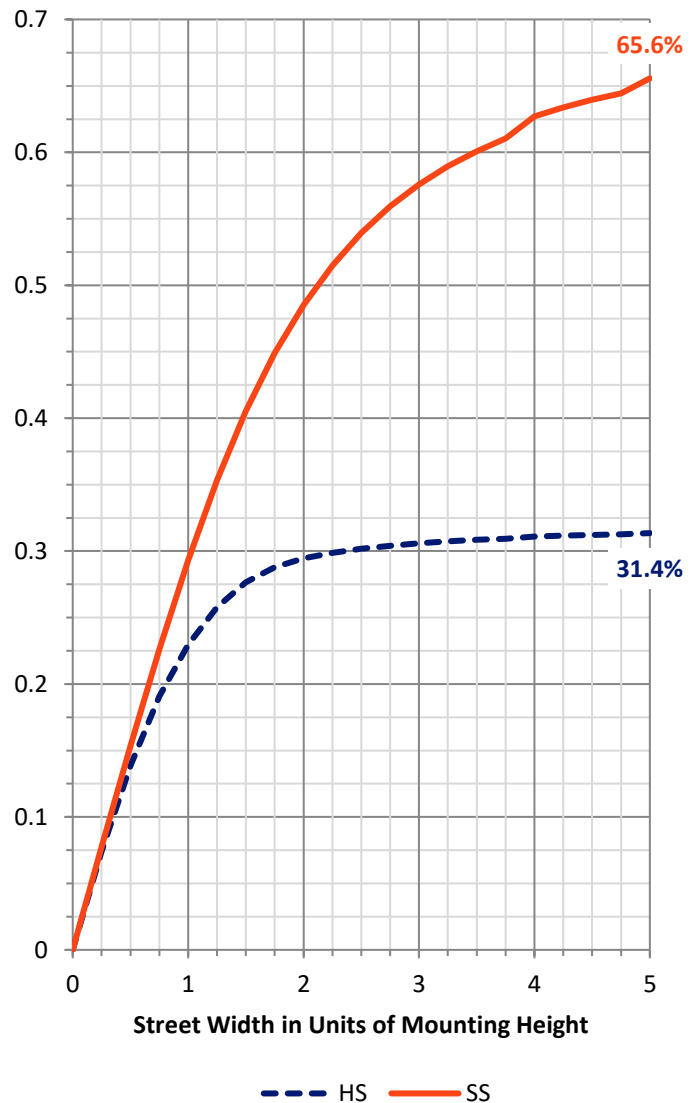
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1197.8	1.4	1199.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2577.0	16.7	2593.7
	% Fixture	67.9	0.4	68.4
Total	Lumens	3774.7	18.1	3792.9
	% Fixture	99.5	0.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.3
10°-20°	40.9	1.1
20°-30°	94.2	2.5
30°-40°	201.9	5.3
40°-50°	432.4	11.4
50°-60°	816.7	21.5
60°-70°	1015.0	26.8
70°-80°	868.9	22.9
80°-90°	293.9	7.7
90°-100°	12.7	0.3
100°-110°	3.6	0.1
110°-120°	0.8	0.0
120°-130°	0.4	0.0
130°-140°	0.3	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3774.7	99.5
0°-180°	3792.9	100.0

Coefficient of Utilization



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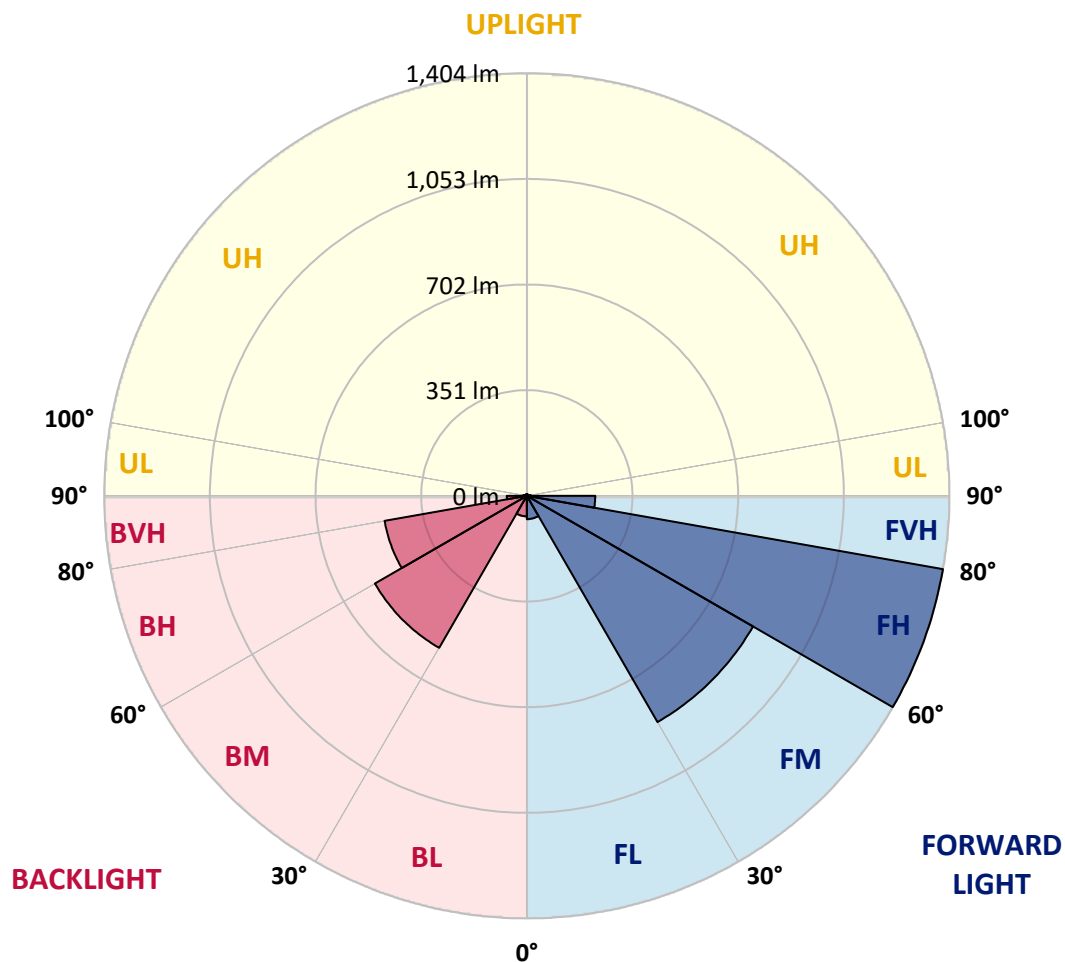
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.6	2.0			
FM	(30°-60°)	868.0	22.9			
FH	(60°-80°)	1404.0	37.0			G1/1800
FVH	(80°-90°)	227.4	6.0			G3/500
BL	(0°-30°)	68.3	1.8	B0/110		
BM	(30°-60°)	583.0	15.4	B1/1000		
BH	(60°-80°)	479.9	12.7	B1/500		G1/500
BVH	(80°-90°)	66.5	1.8			G1/100
UL	(90°-100°)	12.7	0.3		U2/50	
UH	(100°-180°)	5.4	0.1		U1/10	

BUG Rating: B1-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	108.7	108.7	108.7	107.7	107.7	107.7	106.8	105.9	104.9	104.9	104.9
5°	114.4	114.4	114.4	114.4	113.4	112.5	111.5	110.6	109.6	109.6	108.7
7.5°	121.9	121.0	121.9	121.0	121.0	120.0	119.1	118.1	116.3	116.3	115.3
10°	129.5	129.5	129.5	129.5	129.5	128.5	127.6	126.6	125.7	124.8	123.8
12.5°	138.9	138.9	138.9	138.0	138.9	138.0	137.0	137.0	136.1	134.2	134.2
15°	148.4	148.4	148.4	148.4	149.3	149.3	149.3	148.4	148.4	147.4	146.5
17.5°	159.7	158.8	159.7	159.7	160.7	161.6	162.6	163.5	163.5	162.6	162.6
20°	172.0	171.1	172.0	172.0	173.9	175.8	178.6	180.5	181.5	179.6	179.6
22.5°	185.2	184.3	186.2	186.2	189.0	191.9	196.6	198.5	201.3	200.4	200.4
25°	201.3	200.4	201.3	202.3	206.0	210.8	216.4	221.2	224.0	224.0	224.9
27.5°	219.3	219.3	220.2	221.2	224.9	232.5	241.0	249.5	256.1	255.2	256.1
30°	243.8	243.8	245.7	246.7	251.4	259.9	271.3	282.6	292.0	292.0	293.9
32.5°	271.3	270.3	273.1	274.1	278.8	290.2	306.2	324.2	336.5	336.5	338.4
35°	304.3	303.4	306.2	306.2	311.9	328.0	348.8	373.3	394.1	395.1	397.9
37.5°	345.9	344.0	344.0	346.9	353.5	374.3	402.6	436.7	458.4	460.3	465.0
40°	395.1	394.1	396.0	395.1	403.6	429.1	465.0	504.7	530.2	535.0	540.6
42.5°	455.6	457.5	454.6	454.6	465.0	494.3	536.8	583.2	629.5	635.1	638.0
45°	529.3	533.1	529.3	528.3	537.8	571.8	630.4	711.7	765.6	784.5	790.1
47.5°	618.1	620.0	615.3	613.4	623.8	667.3	742.9	833.6	896.9	911.1	926.2
50°	717.4	714.5	710.7	707.9	727.8	781.6	869.5	963.1	1071.8	1073.7	1079.4
52.5°	819.4	810.9	811.9	810.9	838.3	896.9	1014.1	1172.9	1338.3	1372.4	1376.1
55°	921.5	911.1	910.2	919.6	958.4	1042.5	1189.9	1396.0	1530.2	1551.0	1548.1
57.5°	1023.6	1018.9	1017.0	1025.5	1082.2	1182.4	1348.7	1522.6	1637.0	1635.1	1615.3
60°	1129.4	1133.2	1126.6	1142.7	1201.3	1301.5	1422.4	1591.6	1697.5	1689.0	1669.1
62.5°	1238.1	1247.6	1241.0	1242.9	1280.7	1354.4	1473.5	1670.1	1816.6	1828.9	1806.2
65°	1345.9	1352.5	1342.1	1312.8	1333.6	1402.6	1572.7	1761.8	1873.3	1884.6	1867.6
67.5°	1436.6	1443.2	1407.3	1361.0	1363.8	1413.9	1563.3	1743.8	1843.0	1835.5	1808.1
70°	1514.1	1501.8	1443.2	1363.8	1330.8	1354.4	1495.2	1654.9	1756.1	1752.3	1720.2
72.5°	1539.6	1523.6	1424.3	1301.5	1236.2	1244.8	1381.8	1524.5	1606.7	1613.4	1574.6
75°	1499.0	1471.6	1335.5	1181.4	1097.3	1103.0	1220.2	1351.6	1417.7	1410.2	1379.9
77.5°	1352.5	1325.1	1177.7	1013.2	931.0	939.5	1032.1	1135.1	1189.9	1187.1	1166.3
80°	1122.8	1098.3	968.8	815.7	741.0	745.7	816.6	897.9	940.4	949.9	938.5
82.5°	829.8	812.8	721.1	597.3	536.8	535.9	589.8	652.2	693.7	713.6	706.0
85°	513.2	504.7	453.7	373.3	330.8	329.9	362.0	408.3	446.1	472.6	455.6
87.5°	204.2	201.3	186.2	150.3	131.4	124.8	117.2	146.5	149.3	176.7	175.8
90°	50.1	49.1	48.2	45.4	40.6	35.0	28.4	20.8	13.2	10.4	5.7
92.5°	44.4	44.4	43.5	40.6	36.9	31.2	25.5	18.9	12.3	9.5	4.7
95°	35.9	35.9	35.0	33.1	29.3	25.5	19.8	15.1	9.5	7.6	3.8
97.5°	27.4	26.5	26.5	24.6	22.7	18.9	15.1	11.3	7.6	5.7	2.8
100°	19.8	19.8	18.9	18.0	16.1	14.2	11.3	8.5	4.7	3.8	1.9
102.5°	14.2	13.2	13.2	13.2	11.3	9.5	7.6	5.7	3.8	2.8	0.9
105°	9.5	8.5	8.5	8.5	7.6	6.6	4.7	3.8	1.9	1.9	0.9
107.5°	5.7	5.7	5.7	5.7	4.7	3.8	2.8	1.9	0.9	0.9	0.9
110°	2.8	2.8	2.8	3.8	2.8	2.8	1.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
115°	0.9	0.9	0.9	1.9	1.9	0.9	0.9	0.0	0.0	0.9	0.9
117.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
120°	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
122.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
125°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
127.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
130°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
132.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9
135°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.9	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	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.9	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	0.9	0.0	0.9	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°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	104.0	104.0	104.0	103.0	103.0	103.0	102.1	102.1	101.1	101.1	101.1
5°	107.7	107.7	106.8	106.8	105.9	104.9	104.9	104.0	104.0	103.0	103.0
7.5°	114.4	114.4	113.4	112.5	110.6	109.6	108.7	107.7	107.7	106.8	106.8
10°	122.9	122.9	121.0	119.1	117.2	115.3	114.4	112.5	111.5	111.5	111.5
12.5°	133.3	132.3	130.4	127.6	125.7	122.9	121.0	119.1	117.2	117.2	117.2
15°	145.6	145.6	141.8	138.9	135.2	131.4	128.5	125.7	123.8	122.9	122.9
17.5°	160.7	160.7	155.9	151.2	146.5	141.8	138.0	134.2	132.3	131.4	131.4
20°	177.7	177.7	173.0	167.3	160.7	154.1	148.4	143.7	140.8	139.9	139.9
22.5°	198.5	198.5	191.9	184.3	175.8	166.3	158.8	153.1	150.3	148.4	148.4
25°	222.1	220.2	213.6	204.2	191.9	180.5	170.1	164.5	160.7	157.8	158.8
27.5°	254.2	251.4	242.9	226.8	211.7	196.6	184.3	176.7	172.0	170.1	171.1
30°	291.1	288.3	276.0	258.0	235.3	215.5	200.4	191.9	187.1	184.3	185.2
32.5°	335.5	331.7	316.6	292.0	265.6	237.2	218.3	207.9	203.2	200.4	199.4
35°	394.1	389.4	370.5	336.5	299.6	265.6	239.1	225.9	221.2	218.3	219.3
37.5°	460.3	453.7	428.2	386.6	340.3	296.8	266.5	249.5	243.8	239.1	239.1
40°	535.9	528.3	495.3	440.4	384.7	330.8	292.0	273.1	266.5	266.5	266.5
42.5°	630.4	622.9	585.0	504.7	431.0	367.7	321.3	299.6	293.0	294.9	294.9
45°	776.9	766.5	706.0	600.2	491.5	405.5	351.6	327.0	322.3	327.0	327.0
47.5°	911.1	897.9	809.0	689.0	551.0	443.3	381.8	353.5	351.6	362.0	362.0
50°	1061.4	1044.4	950.8	760.8	599.2	484.9	409.2	375.2	376.2	391.3	396.0
52.5°	1352.5	1334.5	1172.9	891.3	651.2	500.0	420.6	379.9	379.9	397.0	403.6
55°	1525.5	1488.6	1277.8	976.3	672.9	517.9	415.9	361.0	359.2	378.1	383.7
57.5°	1582.2	1544.4	1299.6	951.8	658.8	495.3	388.5	310.0	306.2	330.8	328.9
60°	1628.5	1578.4	1264.6	869.5	578.4	447.1	335.5	230.6	214.5	236.3	235.3
62.5°	1758.9	1705.0	1266.5	773.1	483.9	373.3	252.4	129.5	96.4	113.4	105.9
65°	1824.1	1771.2	1286.3	727.8	435.7	309.1	180.5	52.9	3.8	3.8	1.9
67.5°	1768.4	1721.1	1260.8	716.4	429.1	307.2	183.4	52.0	0.0	0.0	0.0
70°	1687.1	1641.7	1202.2	676.7	407.4	295.8	179.6	52.0	0.0	0.0	0.0
72.5°	1544.4	1498.1	1101.1	620.0	374.3	271.3	166.3	49.1	0.0	0.0	0.0
75°	1356.3	1321.3	972.6	546.3	329.9	239.1	147.4	43.5	0.0	0.0	0.0
77.5°	1148.4	1106.8	815.7	454.6	276.0	198.5	124.8	35.9	0.0	0.0	0.0
80°	921.5	891.3	642.7	356.3	213.6	155.0	97.3	27.4	0.0	0.0	0.0
82.5°	685.2	659.7	475.4	255.2	152.2	107.7	67.1	18.0	0.0	0.0	0.0
85°	449.9	443.3	305.3	155.0	90.7	59.5	35.9	8.5	0.0	0.0	0.0
87.5°	162.6	168.2	111.5	44.4	24.6	10.4	4.7	0.9	0.0	0.0	0.0
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
95°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
97.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
100°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
102.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
105°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
107.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
110°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: TT-D3-735-24VDC-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
115°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
117.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
120°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
122.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
125°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
127.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
130°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
132.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
135°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.9	0.9	0.9	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)