

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: P821330

Luminaire Tested: **TT-D5-740-24VDC-RW-HSS**

Issue Date: 12/2/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821330  
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-D5-740-24VDC-RW-HSS  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

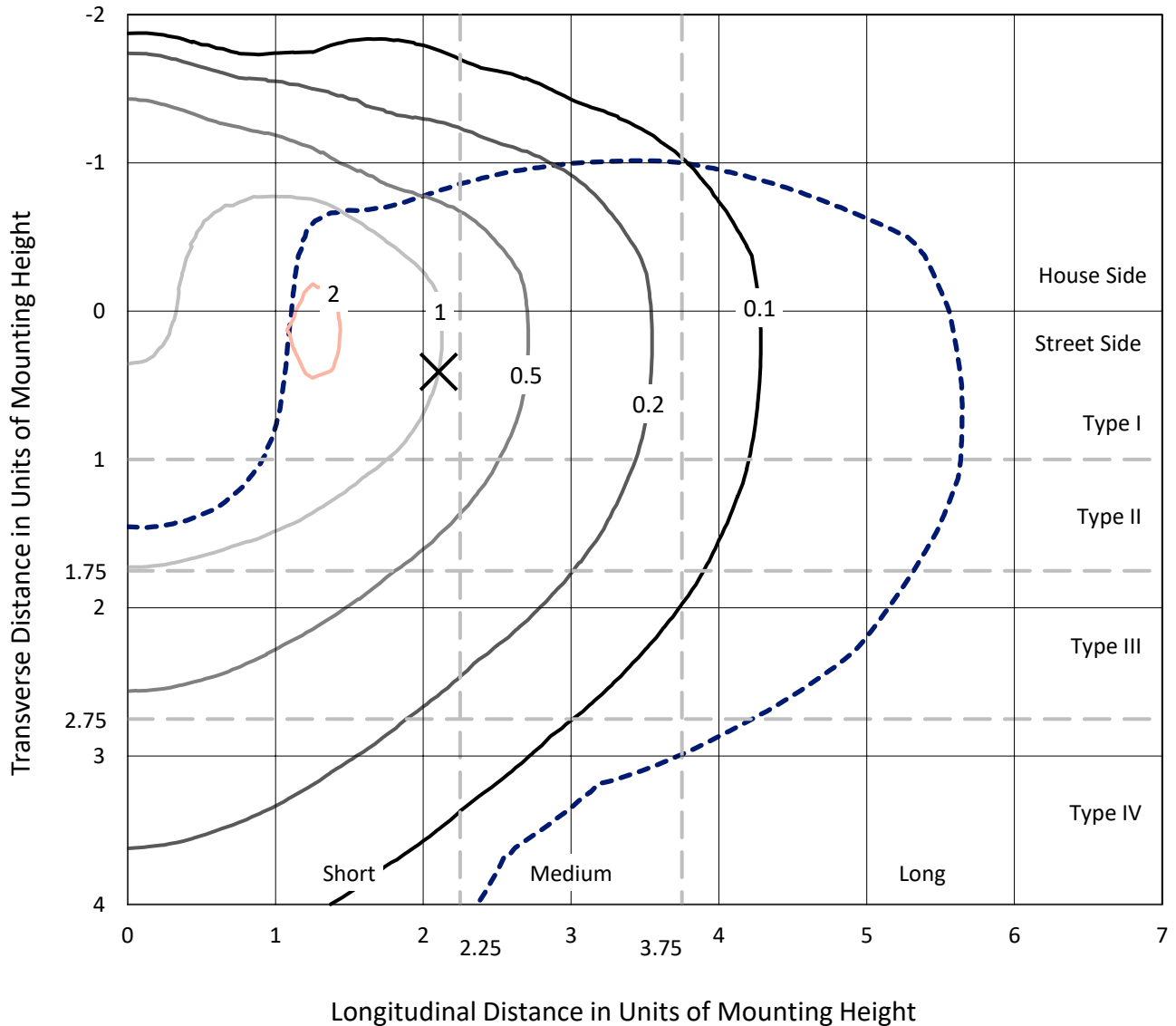
Lumens per Lamp: N/A  
Luminaire Lumens: 6012 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U2 - G3

Input Watts (W): 73  
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

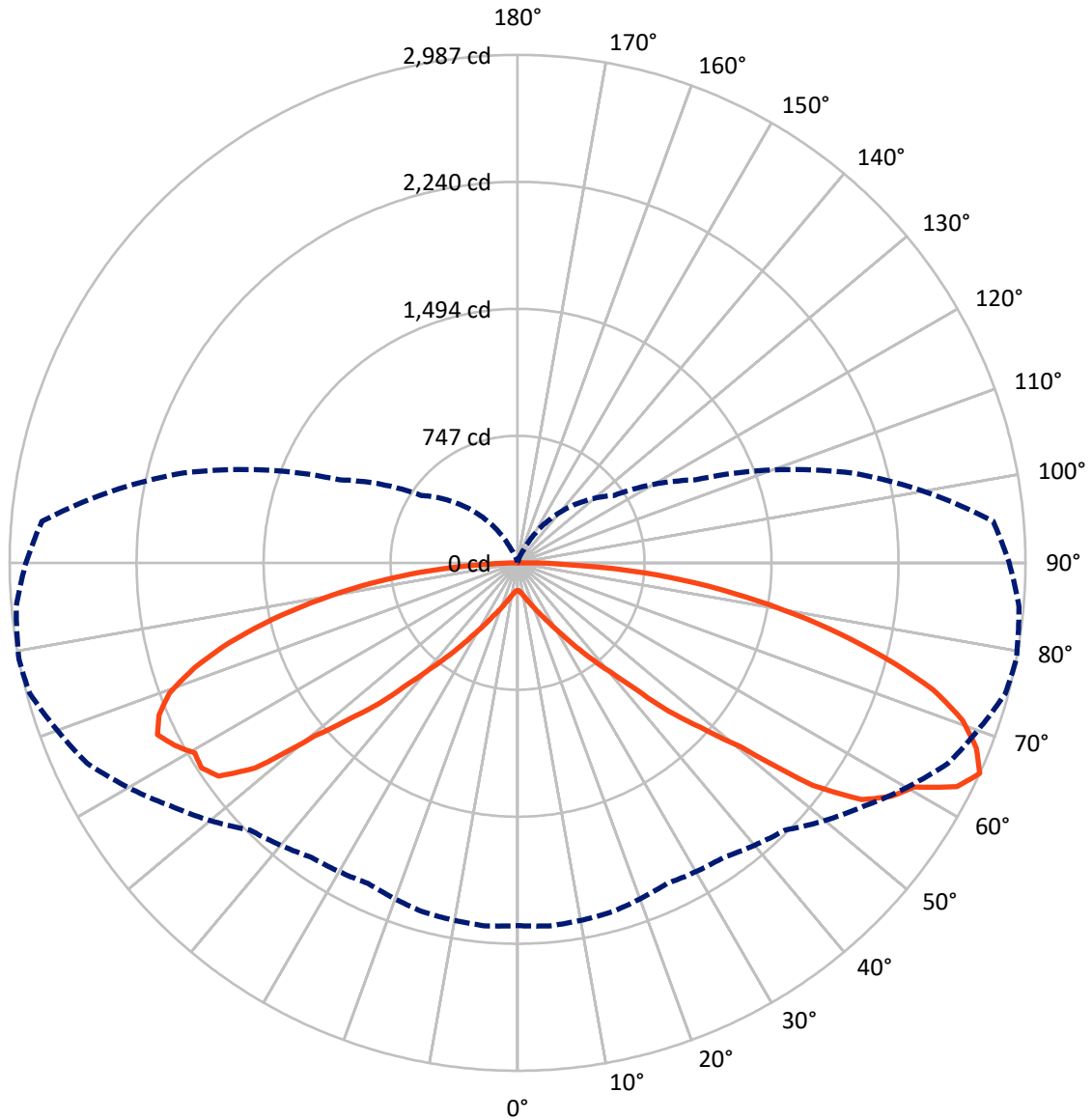
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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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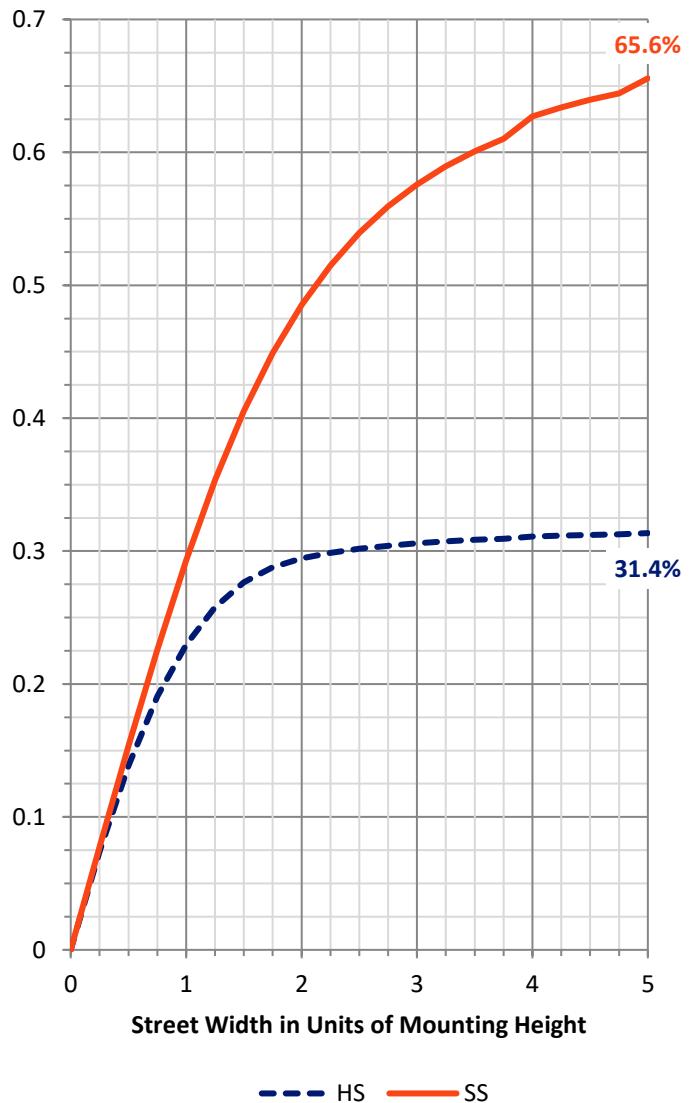
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1898.5	2.4	1900.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4084.6	26.5	4111.1
	% Fixture	67.9	0.4	68.4
<b>Total</b>	Lumens	5983.1	28.9	6012.0
	% Fixture	99.5	0.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.1	0.3
10°-20°	64.8	1.1
20°-30°	149.4	2.5
30°-40°	320.0	5.3
40°-50°	685.4	11.4
50°-60°	1294.5	21.5
60°-70°	1608.8	26.8
70°-80°	1377.2	22.9
80°-90°	465.9	7.7
90°-100°	20.1	0.3
100°-110°	5.8	0.1
110°-120°	1.3	0.0
120°-130°	0.7	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5983.1	99.5
0°-180°	6012.0	100.0

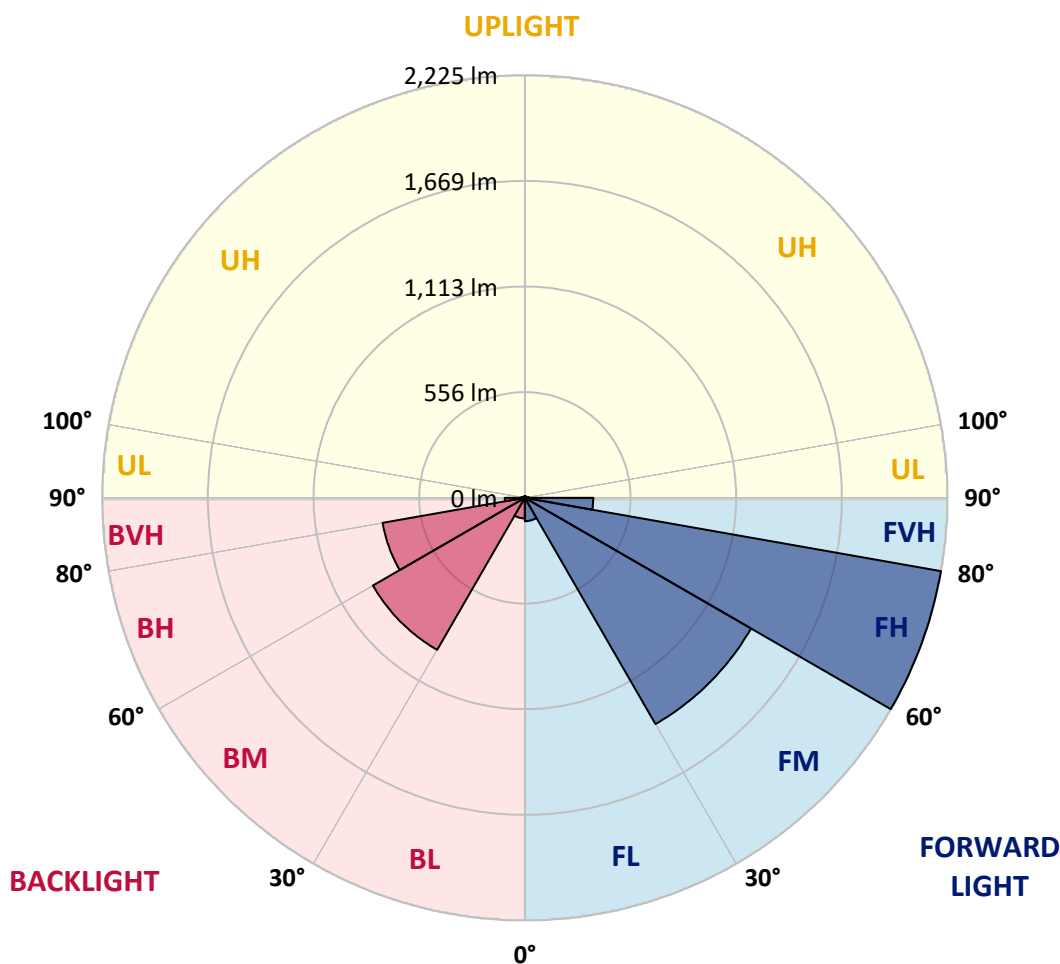


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.9	2.0			
FM (30°-60°)	1375.8	22.9			
FH (60°-80°)	2225.4	37.0			G2/5000
FVH (80°-90°)	360.4	6.0			G3/500
BL (0°-30°)	108.3	1.8	B0/110		
BM (30°-60°)	924.1	15.4	B1/1000		
BH (60°-80°)	760.6	12.7	B2/1000		G2/1000
BVH (80°-90°)	105.5	1.8			G2/225
UL (90°-100°)	20.1	0.3		U2/50	
UH (100°-180°)	8.8	0.1		U1/10	

**BUG Rating: B2-U2-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3
2.5°	172.3	172.3	172.3	170.8	170.8	170.8	169.3	167.8	166.3	166.3	166.3
5°	181.3	181.3	181.3	181.3	179.8	178.3	176.8	175.3	173.8	173.8	172.3
7.5°	193.3	191.8	193.3	191.8	191.8	190.3	188.8	187.3	184.3	184.3	182.8
10°	205.2	205.2	205.2	205.2	205.2	203.7	202.2	200.7	199.2	197.7	196.2
12.5°	220.2	220.2	220.2	218.7	220.2	218.7	217.2	217.2	215.7	212.7	212.7
15°	235.2	235.2	235.2	235.2	236.7	236.7	236.7	235.2	235.2	233.7	232.2
17.5°	253.2	251.7	253.2	253.2	254.7	256.2	257.7	259.2	259.2	257.7	257.7
20°	272.7	271.2	272.7	272.7	275.6	278.6	283.1	286.1	287.6	284.6	284.6
22.5°	293.6	292.1	295.1	295.1	299.6	304.1	311.6	314.6	319.1	317.6	317.6
25°	319.1	317.6	319.1	320.6	326.6	334.1	343.1	350.6	355.0	355.0	356.5
27.5°	347.6	347.6	349.1	350.6	356.5	368.5	382.0	395.5	406.0	404.5	406.0
30°	386.5	386.5	389.5	391.0	398.5	412.0	429.9	447.9	462.9	462.9	465.9
32.5°	429.9	428.5	432.9	434.4	441.9	459.9	485.4	513.8	533.3	533.3	536.3
35°	482.4	480.9	485.4	485.4	494.4	519.8	552.8	591.7	624.7	626.2	630.7
37.5°	548.3	545.3	545.3	549.8	560.3	593.2	638.2	692.1	726.6	729.6	737.1
40°	626.2	624.7	627.7	626.2	639.7	680.1	737.1	800.0	840.4	847.9	856.9
42.5°	722.1	725.1	720.6	720.6	737.1	783.5	850.9	924.3	997.7	1006.7	1011.2
45°	838.9	844.9	838.9	837.4	852.4	906.3	999.2	1128.1	1213.4	1243.4	1252.4
47.5°	979.7	982.7	975.2	972.3	988.7	1057.6	1177.5	1321.3	1421.7	1444.1	1468.1
50°	1137.0	1132.5	1126.6	1122.1	1153.5	1238.9	1378.2	1526.5	1698.8	1701.8	1710.8
52.5°	1298.8	1285.4	1286.8	1285.4	1328.8	1421.7	1607.4	1859.1	2121.3	2175.2	2181.2
55°	1460.6	1444.1	1442.6	1457.6	1519.1	1652.4	1886.1	2212.7	2425.4	2458.3	2453.9
57.5°	1622.4	1614.9	1611.9	1625.4	1715.3	1874.1	2137.8	2413.4	2594.7	2591.7	2560.2
60°	1790.2	1796.2	1785.7	1811.2	1904.1	2062.9	2254.6	2522.8	2690.5	2677.1	2645.6
62.5°	1962.5	1977.5	1967.0	1970.0	2029.9	2146.7	2335.5	2647.1	2879.3	2898.8	2862.8
65°	2133.3	2143.8	2127.3	2080.8	2113.8	2223.1	2492.8	2792.4	2969.2	2987.2	2960.2
67.5°	2277.1	2287.6	2230.6	2157.2	2161.7	2241.1	2477.8	2764.0	2921.3	2909.3	2865.8
70°	2399.9	2380.4	2287.6	2161.7	2109.3	2146.7	2370.0	2623.1	2783.4	2777.4	2726.5
72.5°	2440.4	2414.9	2257.6	2062.9	1959.5	1973.0	2190.2	2416.4	2546.7	2557.2	2495.8
75°	2376.0	2332.5	2116.8	1872.6	1739.3	1748.3	1934.0	2142.3	2247.1	2235.1	2187.2
77.5°	2143.8	2100.3	1866.6	1605.9	1475.6	1489.1	1635.9	1799.2	1886.1	1881.6	1848.6
80°	1779.7	1740.8	1535.5	1292.8	1174.5	1182.0	1294.3	1423.2	1490.6	1505.6	1487.6
82.5°	1315.3	1288.3	1143.0	946.8	850.9	849.4	934.8	1033.7	1099.6	1131.0	1119.1
85°	813.5	800.0	719.1	591.7	524.3	522.8	573.8	647.2	707.1	749.0	722.1
87.5°	323.6	319.1	295.1	238.2	208.2	197.7	185.8	232.2	236.7	280.1	278.6
90°	79.4	77.9	76.4	71.9	64.4	55.4	44.9	33.0	21.0	16.5	9.0
92.5°	70.4	70.4	68.9	64.4	58.4	49.4	40.4	30.0	19.5	15.0	7.5
95°	56.9	56.9	55.4	52.4	46.4	40.4	31.5	24.0	15.0	12.0	6.0
97.5°	43.4	41.9	41.9	39.0	36.0	30.0	24.0	18.0	12.0	9.0	4.5
100°	31.5	31.5	30.0	28.5	25.5	22.5	18.0	13.5	7.5	6.0	3.0
102.5°	22.5	21.0	21.0	21.0	18.0	15.0	12.0	9.0	6.0	4.5	1.5
105°	15.0	13.5	13.5	13.5	12.0	10.5	7.5	6.0	3.0	3.0	1.5
107.5°	9.0	9.0	9.0	9.0	7.5	6.0	4.5	3.0	1.5	1.5	1.5
110°	4.5	4.5	4.5	6.0	4.5	4.5	3.0	1.5	1.5	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5
115°	1.5	1.5	1.5	3.0	3.0	1.5	1.5	0.0	0.0	1.5	1.5
117.5°	0.0	0.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
120°	0.0	0.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
122.5°	0.0	0.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
125°	0.0	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
127.5°	0.0	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
130°	0.0	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
132.5°	0.0	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5
135°	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	1.5	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	1.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	1.5	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	1.5	0.0	1.5	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°	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3	163.3
2.5°	164.8	164.8	164.8	163.3	163.3	163.3	161.8	161.8	160.3	160.3	160.3
5°	170.8	170.8	169.3	169.3	167.8	166.3	166.3	164.8	164.8	163.3	163.3
7.5°	181.3	181.3	179.8	178.3	175.3	173.8	172.3	170.8	170.8	169.3	169.3
10°	194.8	194.8	191.8	188.8	185.8	182.8	181.3	178.3	176.8	176.8	176.8
12.5°	211.2	209.7	206.7	202.2	199.2	194.8	191.8	188.8	185.8	185.8	185.8
15°	230.7	230.7	224.7	220.2	214.2	208.2	203.7	199.2	196.2	194.8	194.8
17.5°	254.7	254.7	247.2	239.7	232.2	224.7	218.7	212.7	209.7	208.2	208.2
20°	281.6	281.6	274.1	265.2	254.7	244.2	235.2	227.7	223.2	221.7	221.7
22.5°	314.6	314.6	304.1	292.1	278.6	263.7	251.7	242.7	238.2	235.2	235.2
25°	352.0	349.1	338.6	323.6	304.1	286.1	269.7	260.7	254.7	250.2	251.7
27.5°	403.0	398.5	385.0	359.5	335.6	311.6	292.1	280.1	272.7	269.7	271.2
30°	461.4	456.9	437.4	409.0	373.0	341.6	317.6	304.1	296.6	292.1	293.6
32.5°	531.8	525.8	501.9	462.9	421.0	376.0	346.1	329.6	322.1	317.6	316.1
35°	624.7	617.2	587.2	533.3	474.9	421.0	379.0	358.0	350.6	346.1	347.6
37.5°	729.6	719.1	678.6	612.7	539.3	470.4	422.5	395.5	386.5	379.0	379.0
40°	849.4	837.4	785.0	698.1	609.7	524.3	462.9	432.9	422.5	422.5	422.5
42.5°	999.2	987.2	927.3	800.0	683.1	582.8	509.3	474.9	464.4	467.4	467.4
45°	1231.4	1214.9	1119.1	951.3	779.0	642.7	557.3	518.3	510.8	518.3	518.3
47.5°	1444.1	1423.2	1282.4	1092.1	873.4	702.6	605.2	560.3	557.3	573.8	573.8
50°	1682.3	1655.4	1507.1	1206.0	949.8	768.5	648.7	594.7	596.2	620.2	627.7
52.5°	2143.8	2115.3	1859.1	1412.7	1032.2	792.5	666.6	602.2	602.2	629.2	639.7
55°	2417.9	2359.5	2025.4	1547.5	1066.6	820.9	659.2	572.3	569.3	599.2	608.2
57.5°	2507.8	2447.9	2059.9	1508.6	1044.2	785.0	615.7	491.4	485.4	524.3	521.3
60°	2581.2	2501.8	2004.4	1378.2	916.8	708.6	531.8	365.5	340.1	374.5	373.0
62.5°	2787.9	2702.5	2007.4	1225.4	767.0	591.7	400.0	205.2	152.8	179.8	167.8
65°	2891.3	2807.4	2038.9	1153.5	690.6	489.9	286.1	83.9	6.0	6.0	3.0
67.5°	2802.9	2728.0	1998.4	1135.5	680.1	486.9	290.6	82.4	0.0	0.0	0.0
70°	2674.1	2602.2	1905.6	1072.6	645.7	468.9	284.6	82.4	0.0	0.0	0.0
72.5°	2447.9	2374.5	1745.3	982.7	593.2	429.9	263.7	77.9	0.0	0.0	0.0
75°	2149.7	2094.3	1541.5	865.9	522.8	379.0	233.7	68.9	0.0	0.0	0.0
77.5°	1820.2	1754.3	1292.8	720.6	437.4	314.6	197.7	56.9	0.0	0.0	0.0
80°	1460.6	1412.7	1018.7	564.8	338.6	245.7	154.3	43.4	0.0	0.0	0.0
82.5°	1086.1	1045.7	753.5	404.5	241.2	170.8	106.4	28.5	0.0	0.0	0.0
85°	713.1	702.6	483.9	245.7	143.8	94.4	56.9	13.5	0.0	0.0	0.0
87.5°	257.7	266.7	176.8	70.4	39.0	16.5	7.5	1.5	0.0	0.0	0.0
90°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
95°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
100°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
102.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
105°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
107.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
110°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: TT-D5-740-24VDC-RW-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
115°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
117.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
120°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
122.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
125°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
127.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
130°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
132.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
135°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
150°	0.0	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.5	1.5	1.5	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)