

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: P821248

Luminaire Tested: **TT-D4-740-24VDC-RW-PM-HSS**

Issue Date: 12/2/2020



Test Information

Test Method: LM-79-08
Report Number: P821248
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-D4-740-24VDC-RW-PM-HSS
Description: TOPTIER LED SITE LUMINAIRE
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

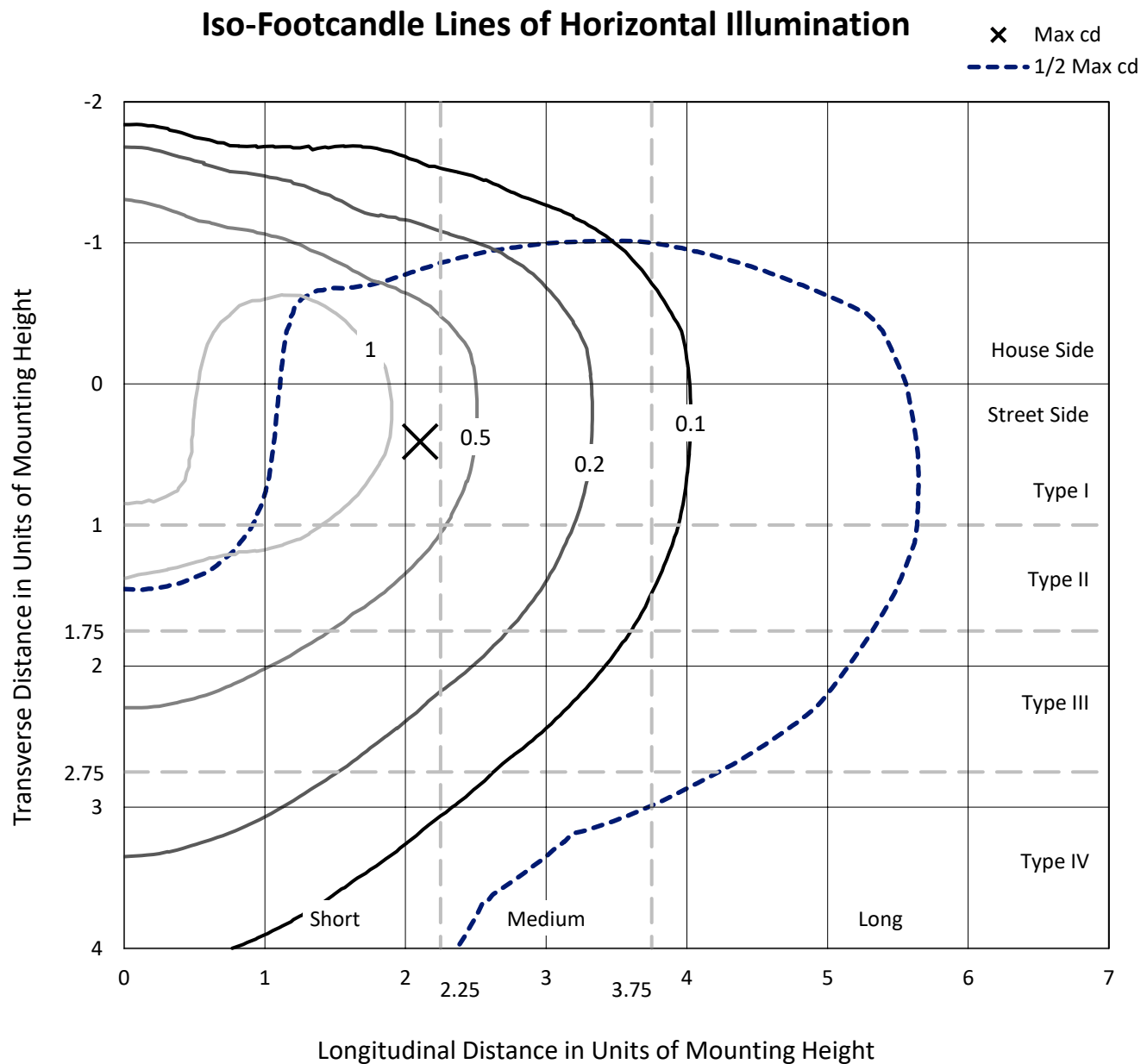
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4777 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G3

Input Watts (W): 57
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

REPORT NUMBER: P821248

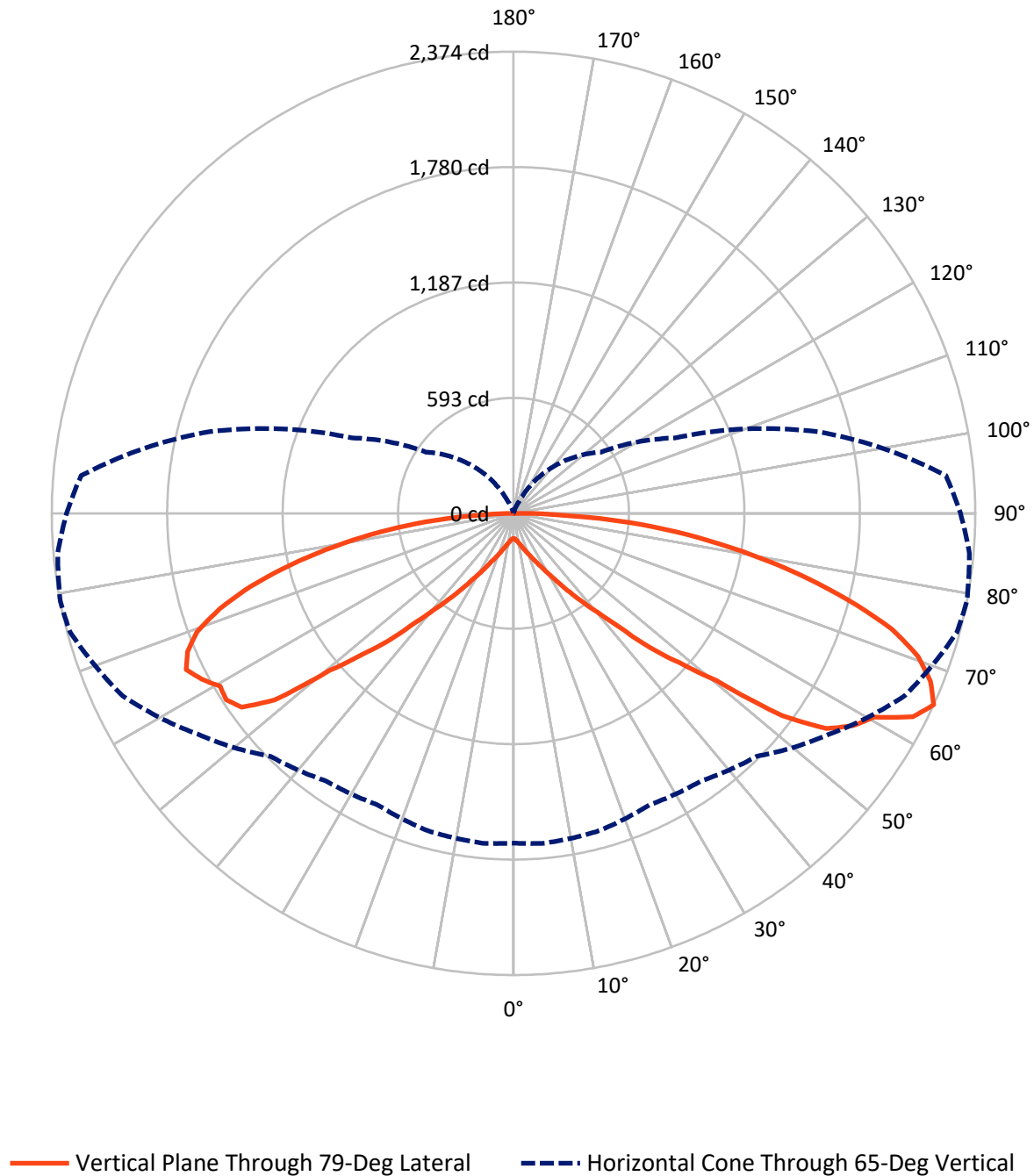
CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

REPORT NUMBER: P821248
CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P821248

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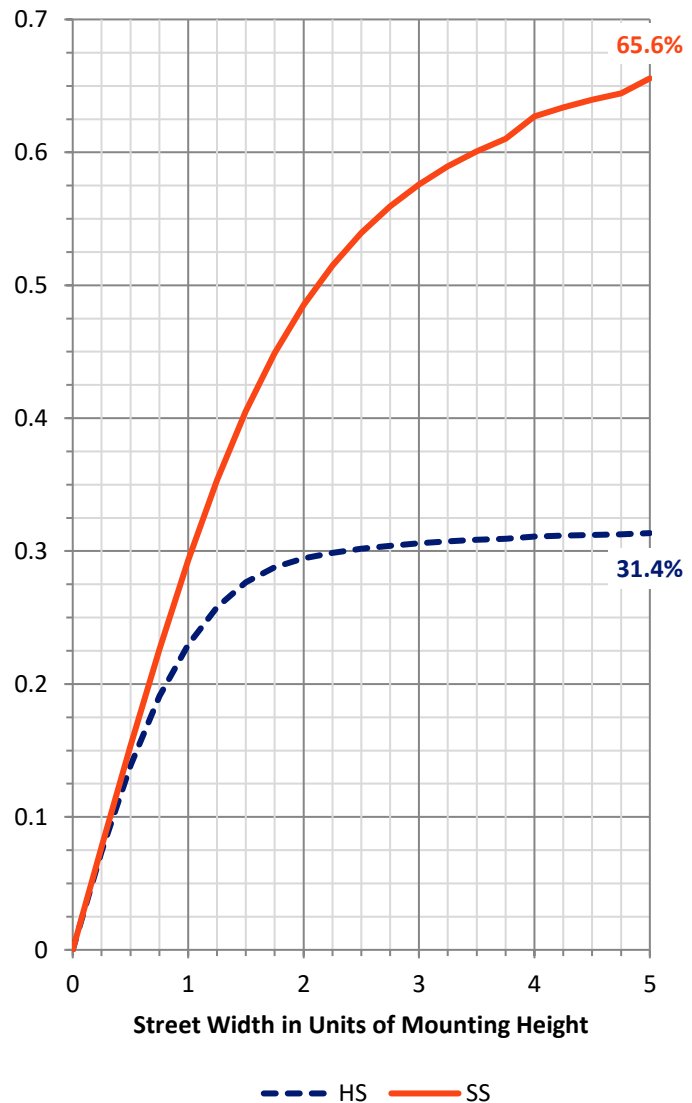
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.5	1.9	1510.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3245.5	21.1	3266.6
	% Fixture	67.9	0.4	68.4
Total	Lumens	4754.0	23.0	4777.0
	% Fixture	99.5	0.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.3
10°-20°	51.5	1.1
20°-30°	118.7	2.5
30°-40°	254.3	5.3
40°-50°	544.6	11.4
50°-60°	1028.6	21.5
60°-70°	1278.3	26.8
70°-80°	1094.3	22.9
80°-90°	370.2	7.7
90°-100°	16.0	0.3
100°-110°	4.6	0.1
110°-120°	1.0	0.0
120°-130°	0.5	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°	4754.0	99.5
0°-180°	4777.0	100.0

Coefficient of Utilization



REPORT NUMBER: P821248

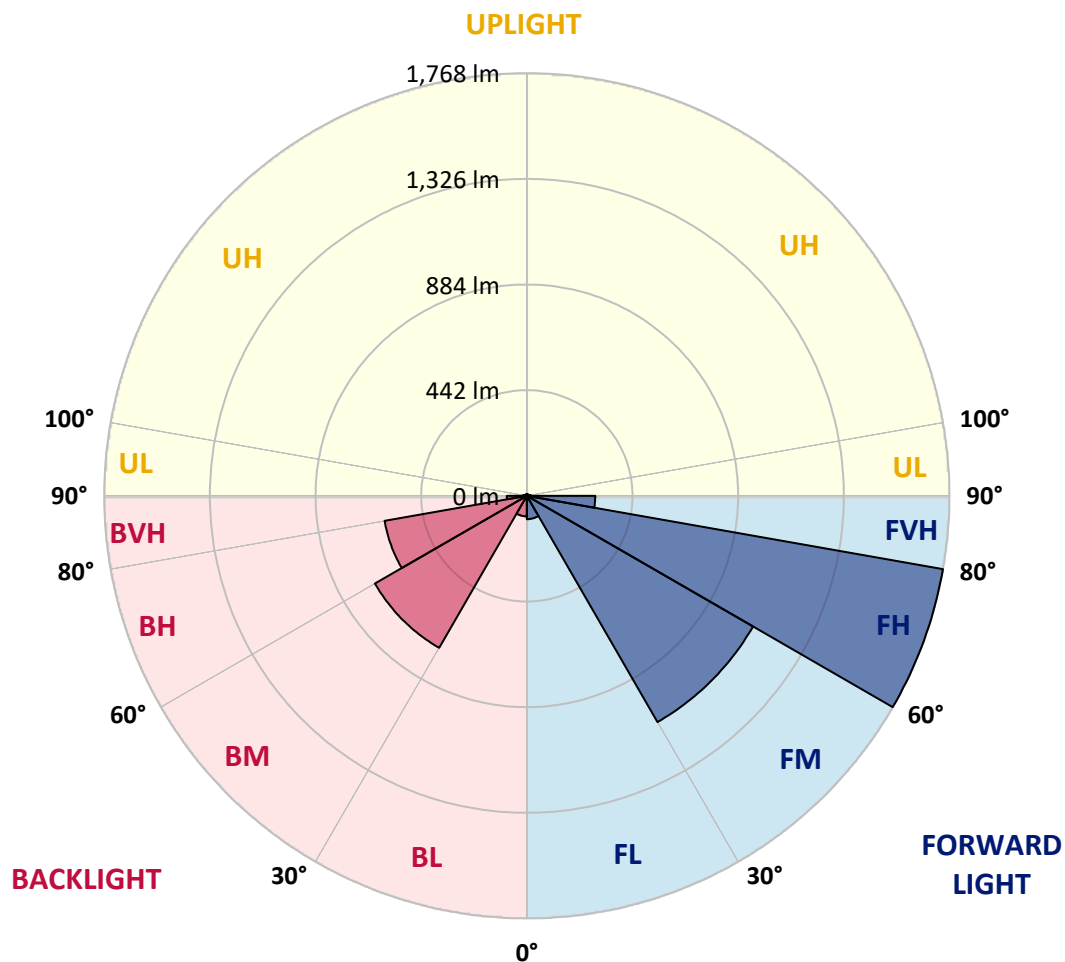
CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.7	2.0			
FM	(30°-60°)	1093.2	22.9			
FH	(60°-80°)	1768.3	37.0			G1/1800
FVH	(80°-90°)	286.4	6.0			G3/500
BL	(0°-30°)	86.1	1.8	B0/110		
BM	(30°-60°)	734.3	15.4	B1/1000		
BH	(60°-80°)	604.4	12.7	B2/1000		G2/1000
BVH	(80°-90°)	83.8	1.8			G1/100
UL	(90°-100°)	16.0	0.3		U2/50	
UH	(100°-180°)	7.0	0.1		U1/10	

BUG Rating: B2-U2-G3

Type IV Short



REPORT NUMBER: P821248

CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
2.5°	136.9	136.9	136.9	135.7	135.7	135.7	134.5	133.3	132.1	132.1	132.1
5°	144.0	144.0	144.0	144.0	142.8	141.7	140.5	139.3	138.1	138.1	136.9
7.5°	153.6	152.4	153.6	152.4	152.4	151.2	150.0	148.8	146.4	146.4	145.2
10°	163.1	163.1	163.1	163.1	163.1	161.9	160.7	159.5	158.3	157.1	155.9
12.5°	175.0	175.0	175.0	173.8	175.0	173.8	172.6	172.6	171.4	169.0	169.0
15°	186.9	186.9	186.9	186.9	188.1	188.1	188.1	186.9	186.9	185.7	184.5
17.5°	201.2	200.0	201.2	201.2	202.4	203.5	204.7	205.9	205.9	204.7	204.7
20°	216.6	215.5	216.6	216.6	219.0	221.4	225.0	227.4	228.5	226.2	226.2
22.5°	233.3	232.1	234.5	234.5	238.1	241.6	247.6	250.0	253.5	252.4	252.4
25°	253.5	252.4	253.5	254.7	259.5	265.4	272.6	278.5	282.1	282.1	283.3
27.5°	276.2	276.2	277.3	278.5	283.3	292.8	303.5	314.2	322.6	321.4	322.6
30°	307.1	307.1	309.5	310.7	316.6	327.3	341.6	355.9	367.8	367.8	370.2
32.5°	341.6	340.4	344.0	345.2	351.2	365.4	385.7	408.3	423.8	423.8	426.1
35°	383.3	382.1	385.7	385.7	392.8	413.0	439.2	470.2	496.4	497.6	501.1
37.5°	435.7	433.3	433.3	436.9	445.2	471.4	507.1	549.9	577.3	579.7	585.6
40°	497.6	496.4	498.8	497.6	508.3	540.4	585.6	635.6	667.8	673.7	680.9
42.5°	573.7	576.1	572.6	572.6	585.6	622.5	676.1	734.4	792.8	799.9	803.5
45°	666.6	671.4	666.6	665.4	677.3	720.2	794.0	896.3	964.2	988.0	995.1
47.5°	778.5	780.9	774.9	772.5	785.6	840.4	935.6	1049.9	1129.6	1147.5	1166.5
50°	903.5	899.9	895.1	891.6	916.6	984.4	1095.1	1213.0	1349.8	1352.2	1359.4
52.5°	1032.0	1021.3	1022.5	1021.3	1055.8	1129.6	1277.2	1477.2	1685.5	1728.4	1733.1
55°	1160.6	1147.5	1146.3	1158.2	1207.0	1312.9	1498.6	1758.1	1927.2	1953.3	1949.8
57.5°	1289.1	1283.2	1280.8	1291.5	1362.9	1489.1	1698.6	1917.6	2061.7	2059.3	2034.3
60°	1422.5	1427.2	1418.9	1439.1	1512.9	1639.1	1791.5	2004.5	2137.9	2127.1	2102.1
62.5°	1559.3	1571.2	1562.9	1565.3	1612.9	1705.8	1855.7	2103.3	2287.8	2303.3	2274.7
65°	1695.0	1703.4	1690.3	1653.4	1679.6	1766.5	1980.7	2218.8	2359.3	2373.5	2352.1
67.5°	1809.3	1817.6	1772.4	1714.1	1717.7	1780.7	1968.8	2196.2	2321.2	2311.6	2277.1
70°	1906.9	1891.4	1817.6	1717.7	1676.0	1705.8	1883.1	2084.3	2211.7	2206.9	2166.4
72.5°	1939.1	1918.8	1793.8	1639.1	1557.0	1567.7	1740.3	1920.0	2023.6	2031.9	1983.1
75°	1887.9	1853.4	1681.9	1487.9	1382.0	1389.1	1536.7	1702.2	1785.5	1776.0	1737.9
77.5°	1703.4	1668.9	1483.2	1276.0	1172.5	1183.2	1299.9	1429.6	1498.6	1495.1	1468.9
80°	1414.1	1383.2	1220.1	1027.3	933.2	939.2	1028.5	1130.8	1184.4	1196.3	1182.0
82.5°	1045.1	1023.7	908.2	752.3	676.1	674.9	742.8	821.3	873.7	898.7	889.2
85°	646.4	635.6	571.4	470.2	416.6	415.4	455.9	514.2	561.8	595.2	573.7
87.5°	257.1	253.5	234.5	189.3	165.5	157.1	147.6	184.5	188.1	222.6	221.4
90°	63.1	61.9	60.7	57.1	51.2	44.0	35.7	26.2	16.7	13.1	7.1
92.5°	55.9	55.9	54.8	51.2	46.4	39.3	32.1	23.8	15.5	11.9	6.0
95°	45.2	45.2	44.0	41.7	36.9	32.1	25.0	19.0	11.9	9.5	4.8
97.5°	34.5	33.3	33.3	30.9	28.6	23.8	19.0	14.3	9.5	7.1	3.6
100°	25.0	25.0	23.8	22.6	20.2	17.9	14.3	10.7	6.0	4.8	2.4
102.5°	17.9	16.7	16.7	16.7	14.3	11.9	9.5	7.1	4.8	3.6	1.2
105°	11.9	10.7	10.7	10.7	9.5	8.3	6.0	4.8	2.4	2.4	1.2
107.5°	7.1	7.1	7.1	7.1	6.0	4.8	3.6	2.4	1.2	1.2	1.2
110°	3.6	3.6	3.6	4.8	3.6	3.6	2.4	1.2	1.2	1.2	1.2



REPORT NUMBER: P821248

CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
115°	1.2	1.2	1.2	2.4	2.4	1.2	1.2	0.0	0.0	1.2	1.2
117.5°	0.0	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
120°	0.0	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
122.5°	0.0	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
125°	0.0	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
127.5°	0.0	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
130°	0.0	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
132.5°	0.0	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2
135°	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	1.2	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	1.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	1.2	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	1.2	0.0	1.2	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

REPORT NUMBER: P821248

CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
2.5°	130.9	130.9	130.9	129.7	129.7	129.7	128.6	128.6	127.4	127.4	127.4
5°	135.7	135.7	134.5	134.5	133.3	132.1	132.1	130.9	130.9	129.7	129.7
7.5°	144.0	144.0	142.8	141.7	139.3	138.1	136.9	135.7	135.7	134.5	134.5
10°	154.7	154.7	152.4	150.0	147.6	145.2	144.0	141.7	140.5	140.5	140.5
12.5°	167.8	166.6	164.3	160.7	158.3	154.7	152.4	150.0	147.6	147.6	147.6
15°	183.3	183.3	178.6	175.0	170.2	165.5	161.9	158.3	155.9	154.7	154.7
17.5°	202.4	202.4	196.4	190.5	184.5	178.6	173.8	169.0	166.6	165.5	165.5
20°	223.8	223.8	217.8	210.7	202.4	194.0	186.9	180.9	177.4	176.2	176.2
22.5°	250.0	250.0	241.6	232.1	221.4	209.5	200.0	192.8	189.3	186.9	186.9
25°	279.7	277.3	269.0	257.1	241.6	227.4	214.3	207.1	202.4	198.8	200.0
27.5°	320.2	316.6	305.9	285.7	266.6	247.6	232.1	222.6	216.6	214.3	215.5
30°	366.6	363.1	347.6	325.0	296.4	271.4	252.4	241.6	235.7	232.1	233.3
32.5°	422.6	417.8	398.8	367.8	334.5	298.8	275.0	261.9	255.9	252.4	251.2
35°	496.4	490.4	466.6	423.8	377.3	334.5	301.2	284.5	278.5	275.0	276.2
37.5°	579.7	571.4	539.2	486.8	428.5	373.8	335.7	314.2	307.1	301.2	301.2
40°	674.9	665.4	623.7	554.7	484.5	416.6	367.8	344.0	335.7	335.7	335.7
42.5°	794.0	784.4	736.8	635.6	542.8	463.0	404.7	377.3	369.0	371.4	371.4
45°	978.5	965.4	889.2	755.9	619.0	510.7	442.8	411.9	405.9	411.9	411.9
47.5°	1147.5	1130.8	1018.9	867.8	694.0	558.3	480.9	445.2	442.8	455.9	455.9
50°	1336.8	1315.3	1197.5	958.2	754.7	610.6	515.4	472.6	473.8	492.8	498.8
52.5°	1703.4	1680.8	1477.2	1122.5	820.1	629.7	529.7	478.5	478.5	499.9	508.3
55°	1921.2	1874.8	1609.3	1229.6	847.5	652.3	523.7	454.7	452.3	476.1	483.3
57.5°	1992.6	1945.0	1636.7	1198.7	829.7	623.7	489.2	390.4	385.7	416.6	414.2
60°	2051.0	1987.9	1592.7	1095.1	728.5	563.0	422.6	290.4	270.2	297.6	296.4
62.5°	2215.2	2147.4	1595.1	973.7	609.5	470.2	317.8	163.1	121.4	142.8	133.3
65°	2297.4	2230.7	1620.1	916.6	548.7	389.2	227.4	66.7	4.8	4.8	2.4
67.5°	2227.1	2167.6	1587.9	902.3	540.4	386.9	230.9	65.5	0.0	0.0	0.0
70°	2124.8	2067.6	1514.1	852.3	513.0	372.6	226.2	65.5	0.0	0.0	0.0
72.5°	1945.0	1886.7	1386.7	780.9	471.4	341.6	209.5	61.9	0.0	0.0	0.0
75°	1708.1	1664.1	1224.9	688.0	415.4	301.2	185.7	54.8	0.0	0.0	0.0
77.5°	1446.3	1393.9	1027.3	572.6	347.6	250.0	157.1	45.2	0.0	0.0	0.0
80°	1160.6	1122.5	809.4	448.8	269.0	195.2	122.6	34.5	0.0	0.0	0.0
82.5°	863.0	830.9	598.7	321.4	191.6	135.7	84.5	22.6	0.0	0.0	0.0
85°	566.6	558.3	384.5	195.2	114.3	75.0	45.2	10.7	0.0	0.0	0.0
87.5°	204.7	211.9	140.5	55.9	30.9	13.1	6.0	1.2	0.0	0.0	0.0
90°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
95°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
97.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
100°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
102.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
105°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
107.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
110°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P821248

CATALOG NUMBER: TT-D4-740-24VDC-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
115°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
117.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
120°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
122.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
125°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
127.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
130°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
132.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
135°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
150°	0.0	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.2	1.2	1.2	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)