

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: INVUE

Report Number: P673060

Luminaire Tested: **CCP-SA-2D-850-U-T1**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673060
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-850-U-T1
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T1 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

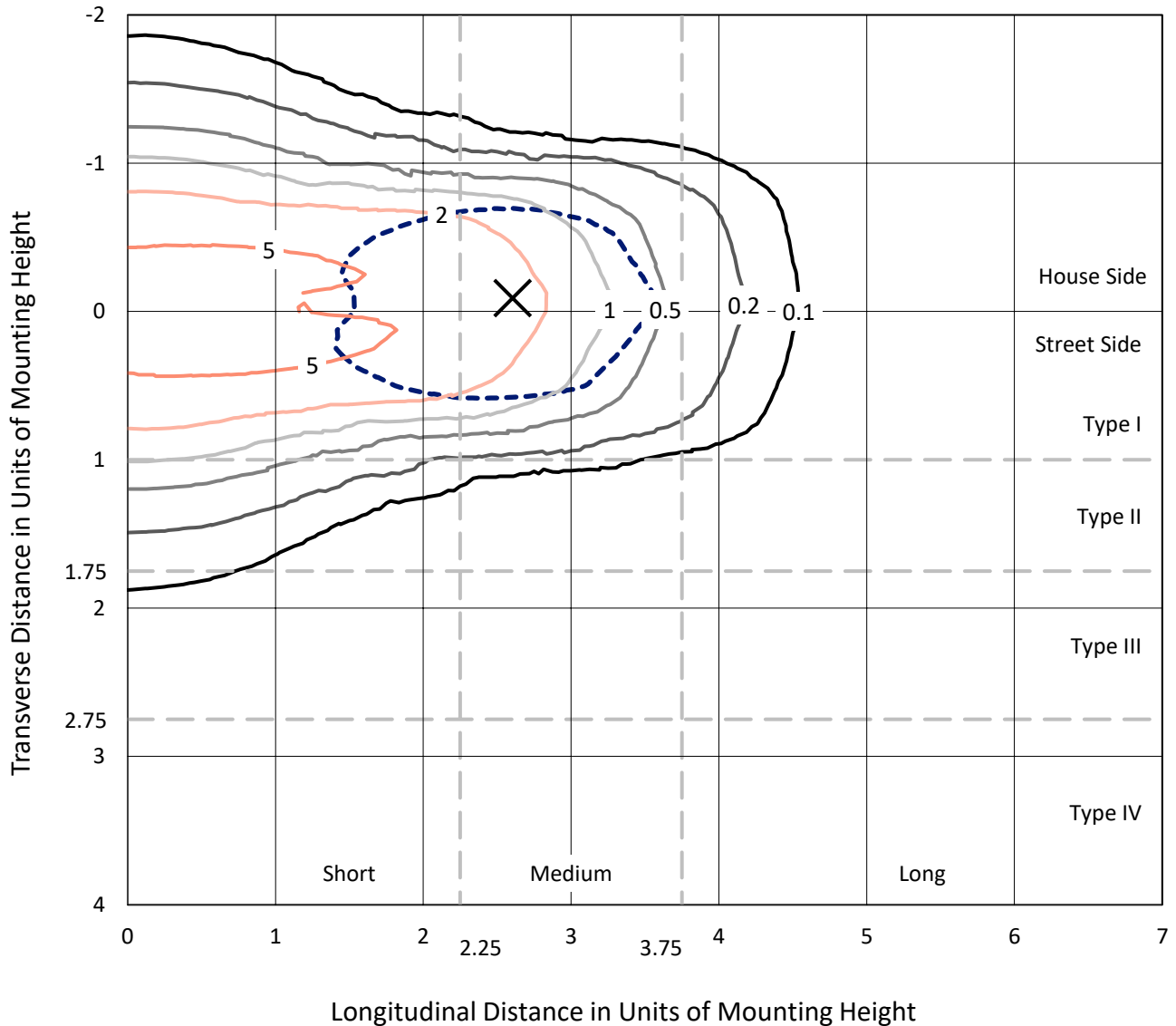
Lumens per Lamp: N/A
Luminaire Lumens: 9476.7 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
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: P673060
 CATALOG NUMBER: CCP-SA-2D-850-U-T1

Iso-Footcandle Lines of Horizontal Illumination

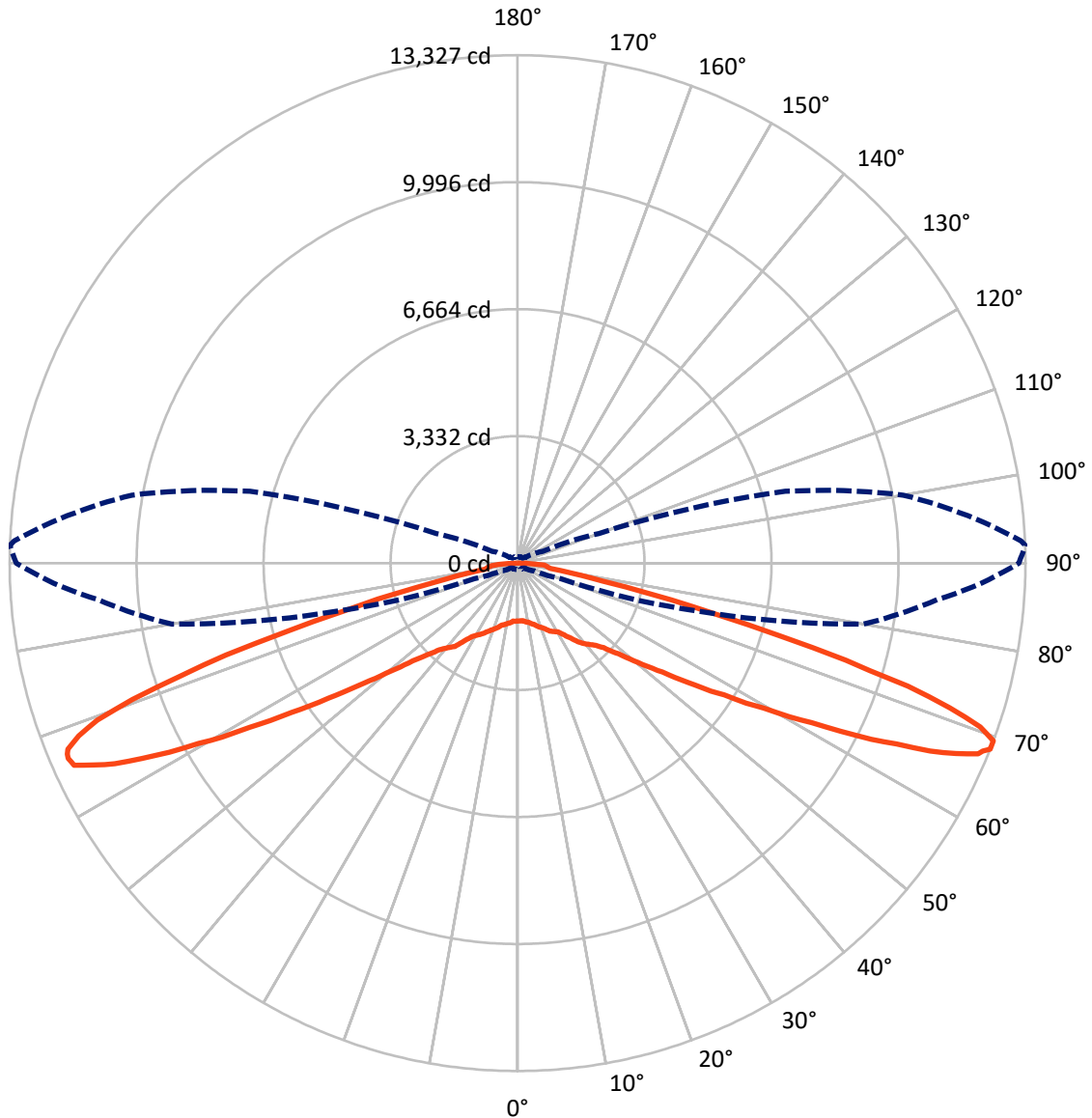
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
 Type I - Short - N/A

REPORT NUMBER: P673060
CATALOG NUMBER: CCP-SA-2D-850-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P673060
 CATALOG NUMBER: CCP-SA-2D-850-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4880.4	0.0	4880.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	4596.4	0.0	4596.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	9476.7	0.0	9476.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	1.6
10°-20°	491.6	5.2
20°-30°	839.0	8.9
30°-40°	1171.4	12.4
40°-50°	1490.1	15.7
50°-60°	1884.1	19.9
60°-70°	2323.6	24.5
70°-80°	1015.0	10.7
80°-90°	110.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9476.7	100.0
0°-180°	9476.7	100.0



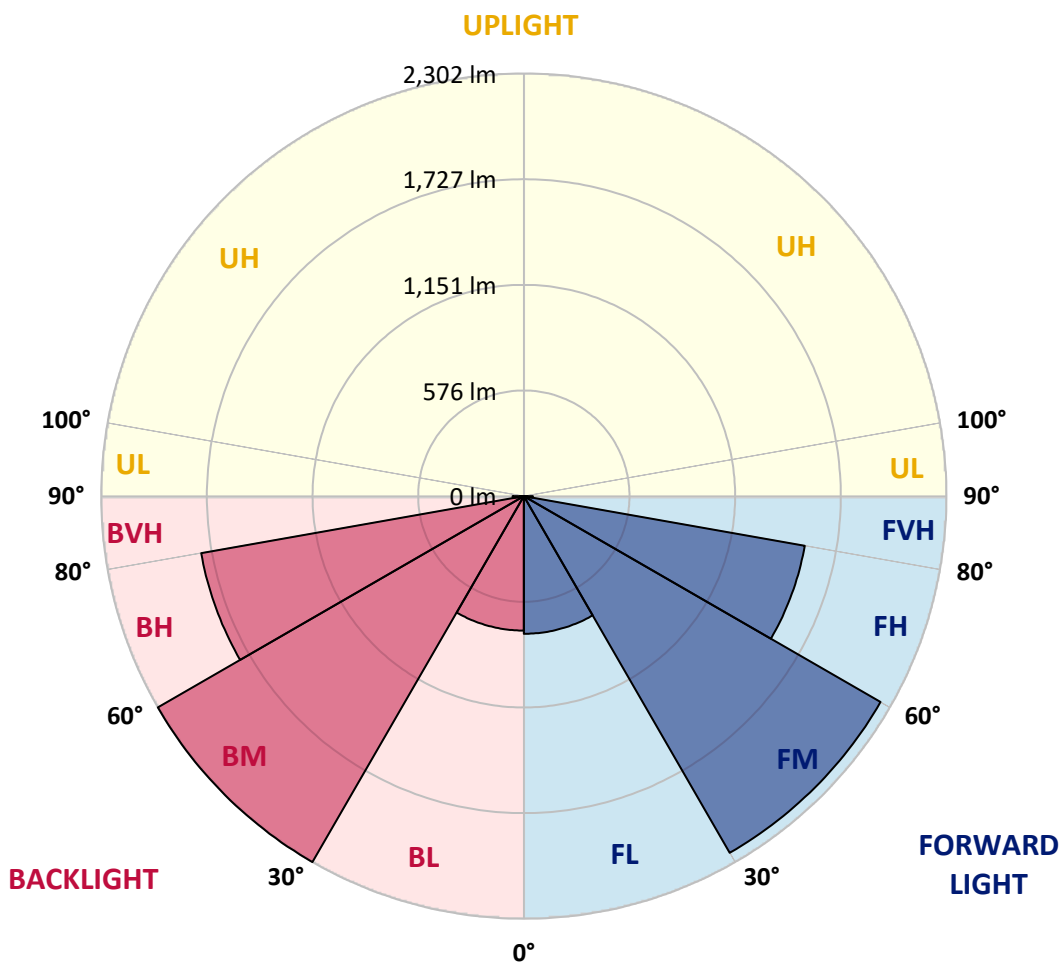
REPORT NUMBER: P673060
 CATALOG NUMBER: CCP-SA-2D-850-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.0	7.9			
FM (30°-60°)	2243.6	23.7			
FH (60°-80°)	1554.0	16.4			G1/1800
FVH (80°-90°)	48.8	0.5			G1/100
BL (0°-30°)	732.4	7.7	B2/1000		
BM (30°-60°)	2302.1	24.3	B2/2500		
BH (60°-80°)	1784.6	18.8	B3/2500		G3/2500
BVH (80°-90°)	61.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P673060

CATALOG NUMBER: CCP-SA-2D-850-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1547.4	1545.6	1551.0	1554.5	1538.5	1543.9	1540.3	1536.8	1524.3	1519.0	1508.3
5°	1590.1	1595.4	1613.2	1597.2	1604.3	1595.4	1567.0	1575.9	1559.9	1556.3	1545.6
7.5°	1664.8	1654.1	1679.0	1661.3	1666.6	1648.8	1636.4	1620.3	1616.8	1591.9	1593.7
10°	1680.8	1702.2	1712.8	1709.3	1712.8	1721.7	1698.6	1673.7	1639.9	1632.8	1607.9
12.5°	1670.1	1689.7	1718.2	1741.3	1757.3	1760.9	1752.0	1746.6	1732.4	1691.5	1689.7
15°	1659.5	1645.2	1663.0	1743.1	1796.4	1832.0	1844.5	1814.2	1817.8	1764.4	1743.1
17.5°	1588.3	1567.0	1636.4	1714.6	1780.4	1858.7	1919.2	1910.3	1910.3	1867.6	1837.3
20°	1494.1	1529.6	1565.2	1664.8	1785.8	1903.2	2018.8	2013.4	1992.1	1979.6	1913.8
22.5°	1414.0	1430.0	1495.8	1600.8	1752.0	1915.6	2052.6	2150.4	2100.6	2050.8	2011.6
25°	1358.9	1344.7	1428.3	1536.8	1720.0	1894.3	2116.6	2218.0	2244.7	2207.3	2132.6
27.5°	1280.6	1280.6	1346.4	1449.6	1616.8	1883.6	2178.8	2333.6	2372.7	2317.6	2209.1
30°	1191.7	1202.4	1259.3	1376.7	1540.3	1805.3	2203.7	2467.0	2499.0	2451.0	2338.9
32.5°	1122.3	1122.3	1186.4	1310.9	1486.9	1769.8	2187.7	2598.6	2659.1	2623.5	2507.9
35°	1047.6	1042.3	1088.5	1225.5	1401.6	1700.4	2182.4	2703.5	2838.7	2840.5	2719.6
37.5°	940.9	962.2	1020.9	1129.4	1334.0	1632.8	2166.4	2829.8	3071.7	3112.6	3029.0
40°	869.8	878.7	932.0	1051.2	1229.0	1552.8	2143.3	2933.0	3226.5	3367.0	3251.4
42.5°	766.6	779.0	820.0	967.6	1127.7	1438.9	2041.9	3005.9	3447.0	3607.1	3509.3
45°	658.1	665.2	725.7	846.6	1019.2	1303.7	1933.4	3123.3	3660.5	3987.7	3930.8
47.5°	528.3	531.8	583.4	709.7	889.3	1168.6	1766.2	3118.0	3833.0	4368.4	4528.4
50°	412.6	421.5	460.7	563.8	732.8	1003.2	1572.3	3075.3	4050.0	4802.3	5117.2
52.5°	329.0	330.8	355.7	437.5	565.6	837.7	1364.2	2940.1	4254.5	5227.4	5839.3
55°	272.1	272.1	286.4	336.2	434.0	636.8	1120.5	2716.0	4279.4	5697.0	6627.2
56°	261.5	257.9	270.4	313.0	391.3	574.5	1006.7	2564.8	4315.0	5914.0	7022.1
57°	247.2	249.0	256.1	286.4	352.2	508.7	880.4	2417.2	4290.1	6091.9	7313.8
58°	240.1	236.6	250.8	270.4	311.3	451.8	793.3	2242.9	4251.0	6237.7	7738.9
59°	229.4	227.7	236.6	254.3	289.9	402.0	686.6	2054.3	4174.5	6426.3	8055.5
60°	225.9	224.1	227.7	241.9	266.8	352.2	604.7	1833.8	3969.9	6620.1	8448.6
61°	215.2	217.0	224.1	233.0	252.6	316.6	544.3	1607.9	3836.5	6783.8	8882.6
62°	217.0	213.4	217.0	224.1	238.3	291.7	476.7	1385.6	3598.2	6968.7	9208.1
63°	206.3	204.5	209.9	218.8	225.9	263.2	416.2	1197.0	3327.8	7011.4	9483.7
64°	202.8	201.0	202.8	215.2	217.0	247.2	368.2	1022.7	2936.5	7084.4	9837.7
65°	193.9	193.9	197.4	202.8	209.9	233.0	329.0	887.5	2547.0	6892.3	9946.2
66°	186.8	188.5	188.5	197.4	202.8	217.0	302.4	754.1	2173.5	6586.3	10051.1
67°	181.4	181.4	183.2	190.3	195.7	204.5	272.1	652.8	1833.8	6221.7	9889.3
67.5°	177.9	179.6	179.6	186.8	192.1	204.5	259.7	619.0	1639.9	5821.5	9768.3
68°	172.5	174.3	174.3	181.4	186.8	197.4	250.8	565.6	1511.9	5561.8	9544.2
69°	169.0	167.2	167.2	174.3	181.4	188.5	233.0	494.5	1202.4	4836.1	9216.9
70°	158.3	158.3	161.9	167.2	172.5	179.6	215.2	435.8	1017.4	4003.7	8373.9
71°	153.0	151.2	153.0	158.3	163.6	172.5	197.4	386.0	832.4	3324.3	7545.0
72°	142.3	145.8	145.8	151.2	156.5	161.9	185.0	336.2	699.0	2657.3	6632.6
72.5°	140.5	140.5	142.3	147.6	151.2	160.1	177.9	321.9	638.5	2342.5	6250.2
73°	135.2	135.2	137.0	142.3	145.8	154.7	172.5	289.9	581.6	2084.6	5535.2
74°	129.8	128.1	128.1	135.2	137.0	145.8	161.9	256.1	487.3	1570.5	4443.1
75°	120.9	120.9	122.7	126.3	128.1	135.2	149.4	227.7	410.9	1218.4	3475.5



REPORT NUMBER: P673060
 CATALOG NUMBER: CCP-SA-2D-850-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	99.6	101.4	103.2	106.7	106.7	112.1	122.7	158.3	250.8	617.2	1595.4
80°	72.9	76.5	81.8	87.2	85.4	85.4	96.0	113.8	149.4	277.5	611.9
82.5°	58.7	62.3	56.9	64.0	64.0	60.5	69.4	83.6	101.4	137.0	218.8
85°	39.1	40.9	33.8	39.1	37.4	37.4	46.2	49.8	62.3	76.5	108.5
87.5°	17.8	17.8	14.2	16.0	16.0	16.0	23.1	17.8	26.7	37.4	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P673060

CATALOG NUMBER: CCP-SA-2D-850-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1519.0	1526.1	1526.1	1519.0	1513.6	1519.0	1515.4	1506.5	1515.4	1519.0	1520.7
5°	1540.3	1526.1	1533.2	1517.2	1527.9	1526.1	1522.5	1531.4	1533.2	1533.2	1545.6
7.5°	1563.4	1581.2	1558.1	1559.9	1565.2	1543.9	1551.0	1554.5	1547.4	1561.7	1572.3
10°	1604.3	1611.5	1604.3	1577.7	1595.4	1581.2	1575.9	1591.9	1588.3	1591.9	1607.9
12.5°	1641.7	1654.1	1634.6	1632.8	1623.9	1611.5	1618.6	1616.8	1641.7	1645.2	1664.8
15°	1718.2	1686.2	1679.0	1677.3	1673.7	1668.4	1671.9	1673.7	1705.7	1711.1	1757.3
17.5°	1784.0	1778.6	1739.5	1753.7	1753.7	1732.4	1723.5	1753.7	1778.6	1805.3	1837.3
20°	1851.6	1846.2	1803.5	1805.3	1789.3	1808.9	1798.2	1826.7	1869.4	1878.3	1906.7
22.5°	1931.6	1908.5	1878.3	1881.8	1887.1	1872.9	1865.8	1904.9	1947.6	1972.5	1974.3
25°	2057.9	1999.2	1974.3	1977.9	1970.7	1960.1	1965.4	2015.2	2036.6	2089.9	2079.2
27.5°	2125.5	2091.7	2073.9	2033.0	2034.8	2018.8	2040.1	2114.8	2157.5	2198.4	2116.6
30°	2207.3	2186.0	2107.7	2093.5	2091.7	2084.6	2123.7	2219.8	2283.8	2306.9	2189.5
32.5°	2367.4	2282.0	2262.4	2250.0	2221.5	2230.4	2250.0	2376.3	2477.7	2472.3	2257.1
35°	2550.6	2491.9	2436.7	2426.1	2422.5	2397.6	2431.4	2579.0	2657.3	2634.2	2282.0
37.5°	2844.1	2755.1	2680.4	2639.5	2632.4	2614.6	2694.7	2812.0	2913.4	2822.7	2301.6
40°	2988.1	2888.5	2819.2	2794.3	2799.6	2824.5	2902.8	3082.4	3126.9	2959.7	2317.6
42.5°	3194.5	3086.0	2949.0	2936.5	2920.5	2933.0	3084.2	3326.1	3363.4	3144.6	2257.1
45°	3560.9	3397.2	3238.9	3167.8	3171.3	3205.1	3439.9	3704.9	3635.6	3272.7	2161.1
47.5°	4023.3	3783.2	3655.1	3559.1	3605.3	3568.0	3941.5	4153.1	3916.6	3434.6	2043.7
50°	4718.8	4382.6	4208.3	4092.7	4112.2	4144.2	4523.1	4702.7	4227.8	3512.8	1864.0
52.5°	5595.6	5163.4	4907.3	4752.5	4766.8	4836.1	5325.3	5270.1	4583.6	3578.6	1623.9
55°	6645.0	6200.4	5704.1	5640.1	5624.1	5789.5	6328.4	5864.2	4903.7	3473.7	1374.9
56°	7200.0	6726.8	6211.0	6079.4	6040.3	6155.9	6789.1	6161.2	5014.0	3356.3	1255.7
57°	7671.3	7219.5	6653.9	6429.8	6479.6	6696.6	7246.2	6440.5	5115.4	3235.4	1143.7
58°	8318.7	7802.9	7205.3	7034.5	6990.1	7162.6	7738.9	6721.5	5149.2	3110.9	1040.5
59°	8964.4	8345.4	7806.5	7495.2	7507.7	7822.5	8224.5	7055.9	5200.8	2952.6	908.9
60°	9455.3	9144.0	8423.7	8190.7	8158.7	8614.0	8708.3	7280.0	5255.9	2739.1	816.4
61°	10150.7	9745.2	9074.7	8774.1	8861.2	9225.8	9231.2	7561.0	5174.1	2468.8	702.6
62°	10650.5	10543.8	9839.5	9553.1	9526.4	10010.2	9775.4	7808.3	5102.9	2212.6	620.7
63°	11235.7	11235.7	10593.6	10369.5	10382.0	10764.4	10012.0	8055.5	5021.1	1929.8	546.0
64°	11539.9	11922.3	11330.0	11015.2	11097.0	11427.8	10433.5	8217.4	4768.6	1643.5	480.2
65°	11803.1	12377.6	12048.6	11902.7	11778.2	11973.9	10798.2	8368.5	4382.6	1398.0	426.9
66°	12025.4	12806.3	12697.8	12541.2	12528.8	12484.3	10869.3	8363.2	3984.2	1181.0	373.5
67°	11913.4	12815.2	13012.6	13078.4	13058.8	12589.3	10744.8	8172.9	3473.7	997.8	332.6
67.5°	11812.0	12742.2	13201.1	13163.8	13245.6	12678.2	10766.2	7939.9	3110.9	903.6	313.0
68°	11723.1	12644.4	13277.6	13325.6	13284.7	12688.9	10648.8	7754.9	2863.6	848.4	295.3
69°	11049.0	12180.2	13154.9	13327.4	13222.5	12281.6	10275.2	7272.9	2274.9	723.9	272.1
70°	10373.1	11579.0	12559.0	12875.6	12745.8	11493.6	9803.9	6506.3	1876.5	619.0	245.5
71°	9437.5	10462.0	11765.8	11956.1	11799.5	10597.2	8829.2	5697.0	1460.3	524.7	218.8
72°	8167.5	9037.3	10282.4	10743.0	10511.8	9307.7	7843.8	4708.1	1182.8	441.1	199.2
72.5°	7537.9	8429.0	9629.6	9666.9	9711.4	8747.4	7425.9	4135.4	1031.6	409.1	193.9
73°	6940.3	7813.6	8852.3	8983.9	8795.4	7802.9	6801.5	3697.8	942.7	373.5	186.8
74°	5624.1	6122.1	6983.0	7111.0	6945.6	6362.2	5558.3	2835.2	750.6	321.9	170.8
75°	4425.3	4699.2	5478.2	5400.0	5152.7	4948.2	4309.7	2166.4	608.3	282.8	158.3



REPORT NUMBER: P673060
 CATALOG NUMBER: CCP-SA-2D-850-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1988.5	2153.9	2283.8	2283.8	2298.0	2193.1	1986.7	994.3	375.3	204.5	129.8
80°	757.7	848.4	876.9	878.7	891.1	923.1	859.1	489.1	222.3	145.8	104.9
82.5°	549.6	768.4	827.1	784.4	787.9	711.5	329.0	217.0	140.5	101.4	76.5
85°	498.0	668.8	707.9	702.6	704.3	658.1	193.9	106.7	81.8	64.0	53.4
87.5°	241.9	236.6	250.8	282.8	275.7	357.5	163.6	53.4	35.6	26.7	26.7
90°	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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CATALOG NUMBER: CCP-SA-2D-850-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1506.5	1504.7	1529.6	1504.7	1519.0	1508.3
5°	1524.3	1531.4	1536.8	1547.4	1522.5	1547.4
7.5°	1577.7	1584.8	1586.6	1595.4	1584.8	1583.0
10°	1618.6	1636.4	1647.0	1611.5	1632.8	1631.0
12.5°	1698.6	1680.8	1679.0	1671.9	1652.4	1645.2
15°	1755.5	1728.8	1712.8	1684.4	1661.3	1652.4
17.5°	1835.6	1784.0	1718.2	1659.5	1618.6	1586.6
20°	1885.4	1792.9	1661.3	1591.9	1529.6	1543.9
22.5°	1917.4	1784.0	1609.7	1520.7	1458.5	1476.3
25°	1928.1	1739.5	1574.1	1463.8	1403.4	1390.9
27.5°	1897.8	1687.9	1504.7	1380.2	1326.9	1337.5
30°	1883.6	1613.2	1440.7	1318.0	1246.8	1257.5
32.5°	1846.2	1536.8	1355.3	1230.8	1179.2	1161.5
35°	1792.9	1472.7	1273.5	1156.1	1093.9	1079.6
37.5°	1727.1	1392.7	1202.4	1060.1	1004.9	994.3
40°	1629.2	1296.6	1099.2	976.5	912.4	910.7
42.5°	1543.9	1204.1	1003.2	876.9	812.8	816.4
45°	1435.4	1079.6	892.9	784.4	720.4	723.9
47.5°	1296.6	964.0	787.9	667.0	613.6	610.1
50°	1133.0	832.4	659.9	556.7	512.3	503.4
52.5°	976.5	699.0	540.7	448.2	410.9	407.3
55°	779.0	544.3	421.5	352.2	323.7	325.5
56°	707.9	501.6	384.2	321.9	300.6	300.6
57°	640.3	444.7	348.6	297.0	277.5	277.5
58°	565.6	391.3	316.6	268.6	259.7	252.6
59°	514.0	355.7	286.4	254.3	240.1	238.3
60°	453.6	320.2	266.8	238.3	227.7	225.9
61°	402.0	288.1	245.5	222.3	218.8	218.8
62°	359.3	266.8	227.7	215.2	213.4	208.1
63°	321.9	245.5	218.8	204.5	199.2	204.5
64°	288.1	225.9	211.7	201.0	193.9	197.4
65°	261.5	217.0	202.8	195.7	188.5	190.3
66°	243.7	202.8	195.7	186.8	183.2	185.0
67°	220.6	195.7	188.5	179.6	177.9	179.6
67.5°	213.4	190.3	185.0	176.1	174.3	176.1
68°	208.1	186.8	183.2	174.3	172.5	170.8
69°	193.9	179.6	174.3	170.8	167.2	165.4
70°	181.4	172.5	169.0	163.6	160.1	158.3
71°	174.3	163.6	161.9	156.5	153.0	151.2
72°	165.4	158.3	154.7	147.6	145.8	147.6
72.5°	163.6	154.7	153.0	145.8	144.1	144.1
73°	158.3	147.6	149.4	142.3	138.7	142.3
74°	147.6	144.1	140.5	135.2	133.4	133.4
75°	138.7	135.2	131.6	128.1	128.1	128.1



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82.5°	71.1	72.9	76.5	71.1	67.6	64.0
85°	46.2	48.0	48.0	42.7	49.8	46.2
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90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)