

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: P672984

Luminaire Tested: **CCP-SA-2E-740-U-T1**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672984
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-740-U-T1
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T1 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

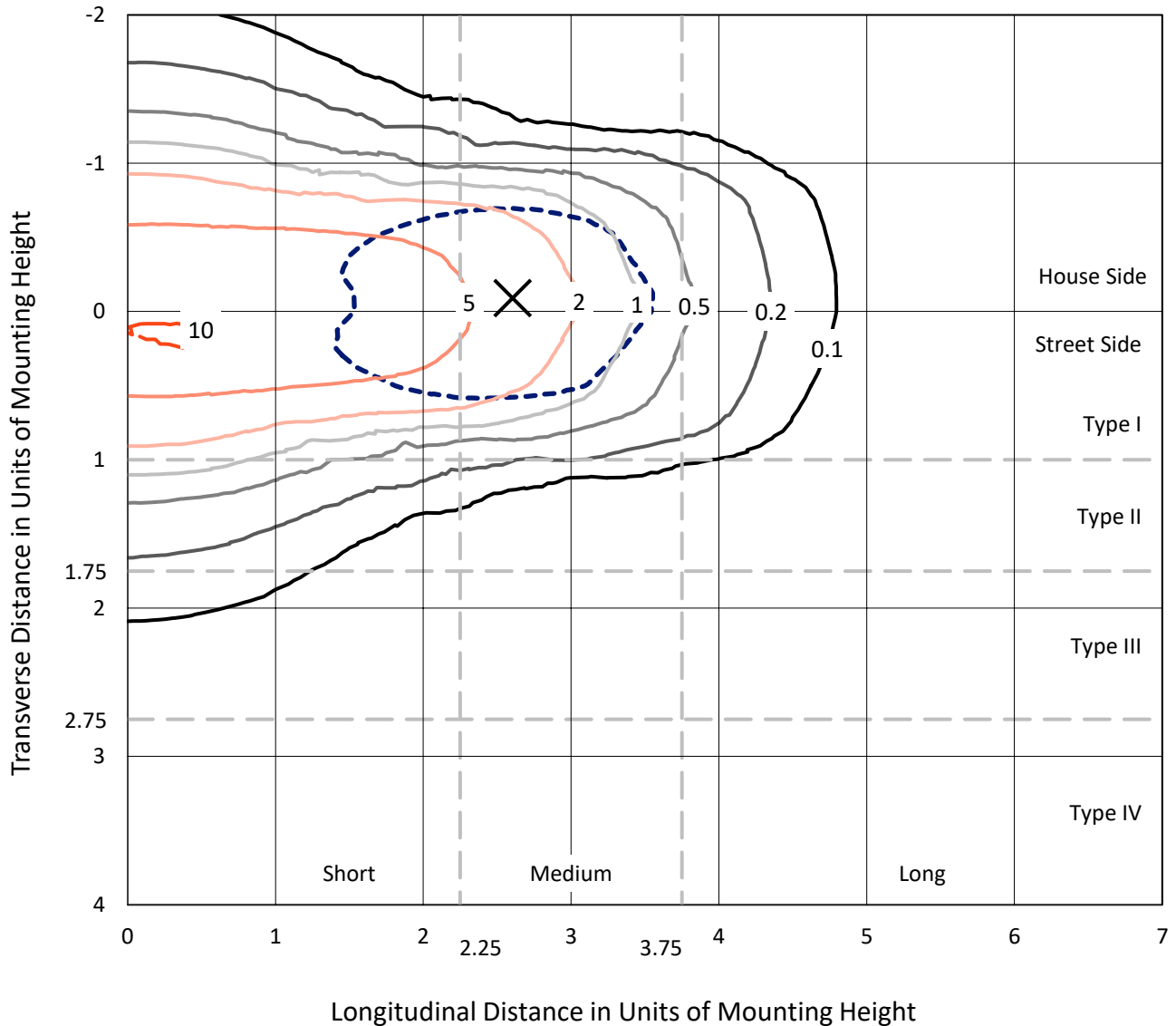
Lumens per Lamp: N/A
Luminaire Lumens: 13314.5 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 106.6
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

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Iso-Footcandle Lines of Horizontal Illumination

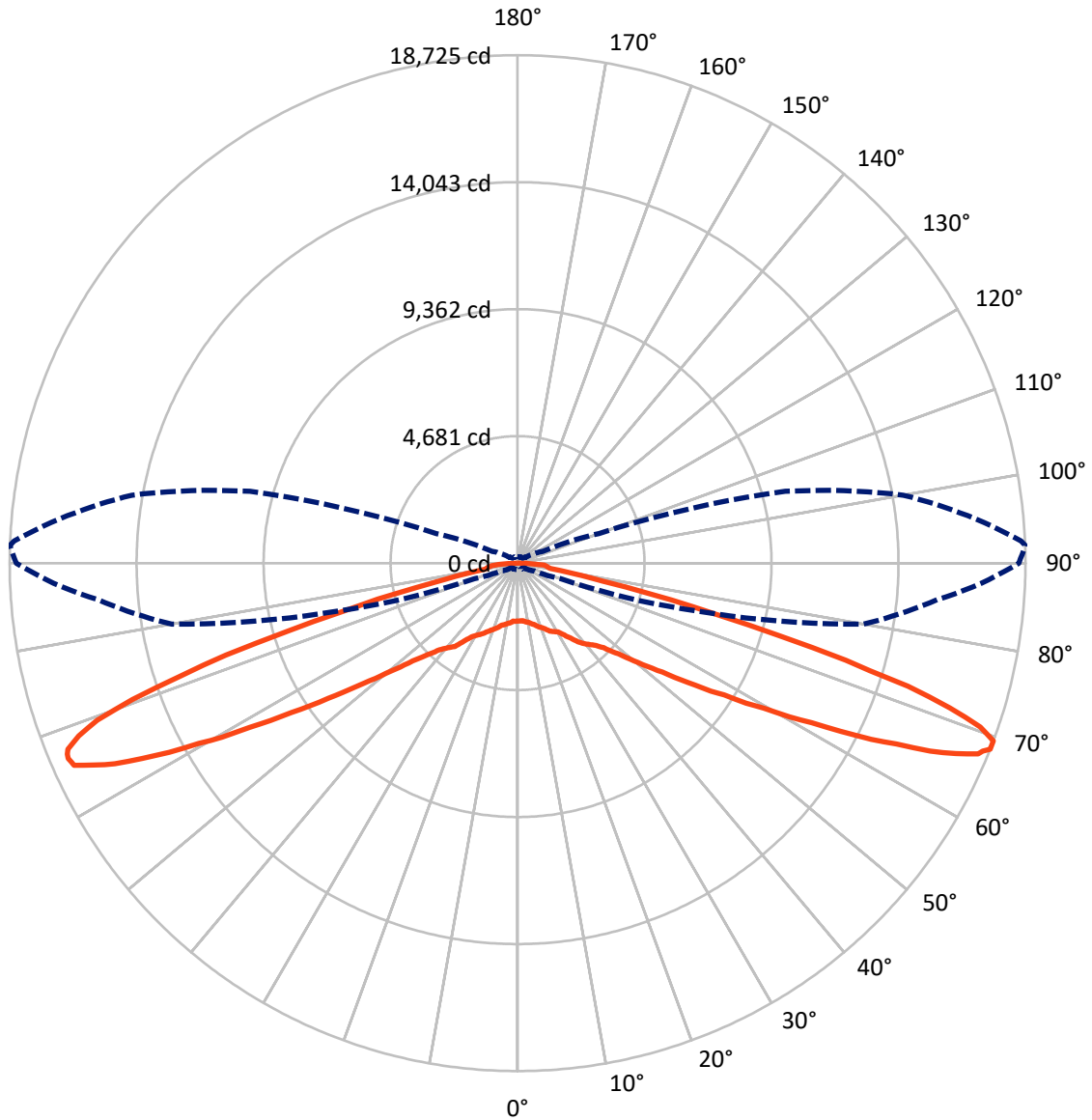
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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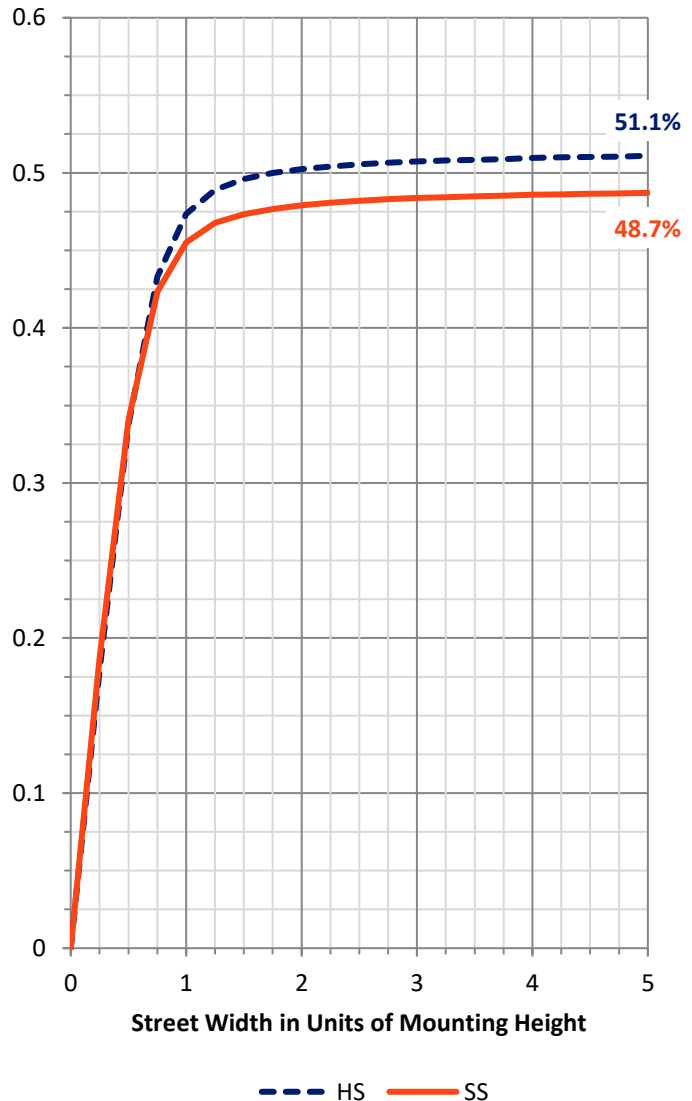
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6856.8	0.0	6856.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	6457.8	0.0	6457.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	13314.5	0.0	13314.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.6
10°-20°	690.7	5.2
20°-30°	1178.7	8.9
30°-40°	1645.8	12.4
40°-50°	2093.6	15.7
50°-60°	2647.1	19.9
60°-70°	3264.6	24.5
70°-80°	1426.1	10.7
80°-90°	154.7	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°	13314.5	100.0
0°-180°	13314.5	100.0



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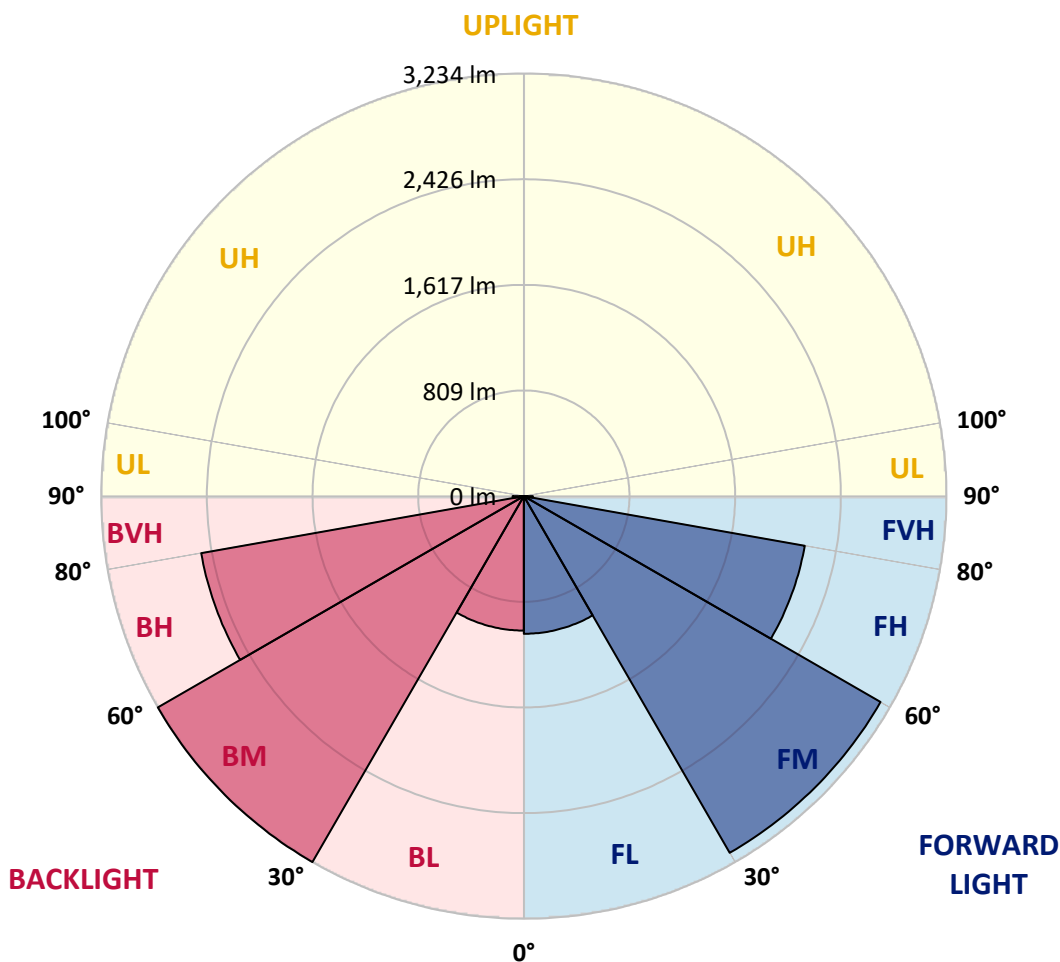
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.7	7.9			
FM (30°-60°)	3152.1	23.7			
FH (60°-80°)	2183.3	16.4			G2/5000
FVH (80°-90°)	68.6	0.5			G1/100
BL (0°-30°)	1029.0	7.7	B3/2500		
BM (30°-60°)	3234.4	24.3	B3/5000		
BH (60°-80°)	2507.3	18.8	B4/5000		G4/5000
BVH (80°-90°)	86.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1
2.5°	2174.1	2171.6	2179.1	2184.1	2161.6	2169.1	2164.1	2159.1	2141.6	2134.1	2119.1
5°	2234.1	2241.6	2266.5	2244.1	2254.1	2241.6	2201.6	2214.1	2191.6	2186.6	2171.6
7.5°	2339.0	2324.0	2359.0	2334.0	2341.5	2316.5	2299.0	2276.5	2271.5	2236.6	2239.1
10°	2361.5	2391.5	2406.5	2401.5	2406.5	2419.0	2386.5	2351.5	2304.0	2294.0	2259.0
12.5°	2346.5	2374.0	2414.0	2446.5	2469.0	2474.0	2461.5	2454.0	2434.0	2376.5	2374.0
15°	2331.5	2311.5	2336.5	2449.0	2523.9	2573.9	2591.4	2548.9	2553.9	2479.0	2449.0
17.5°	2231.6	2201.6	2299.0	2409.0	2501.4	2611.4	2696.4	2683.9	2683.9	2623.9	2581.4
20°	2099.1	2149.1	2199.1	2339.0	2508.9	2673.9	2836.3	2828.8	2798.8	2781.3	2688.9
22.5°	1986.7	2009.2	2101.6	2249.1	2461.5	2691.4	2883.8	3021.2	2951.3	2881.3	2826.3
25°	1909.2	1889.2	2006.7	2159.1	2416.5	2661.4	2973.7	3116.2	3153.7	3101.2	2996.2
27.5°	1799.2	1799.2	1891.7	2036.6	2271.5	2646.4	3061.2	3278.6	3333.6	3256.1	3103.7
30°	1674.3	1689.3	1769.3	1934.2	2164.1	2536.4	3096.2	3466.0	3511.0	3443.5	3286.1
32.5°	1576.8	1576.8	1666.8	1841.7	2089.1	2486.5	3073.7	3651.0	3735.9	3685.9	3523.5
35°	1471.9	1464.4	1529.4	1721.8	1969.2	2389.0	3066.2	3798.4	3988.3	3990.8	3820.9
37.5°	1321.9	1351.9	1434.4	1586.8	1874.2	2294.0	3043.7	3975.8	4315.7	4373.2	4255.7
40°	1222.0	1234.5	1309.4	1476.9	1726.8	2181.6	3011.2	4120.8	4533.1	4730.5	4568.1
42.5°	1077.0	1094.5	1152.0	1359.4	1584.3	2021.6	2868.8	4223.2	4843.0	5067.9	4930.4
45°	924.6	934.6	1019.6	1189.5	1431.9	1831.7	2716.4	4388.2	5142.8	5602.6	5522.7
47.5°	742.2	747.2	819.7	997.1	1249.5	1641.8	2481.5	4380.7	5385.2	6137.4	6362.3
50°	579.8	592.3	647.2	792.2	1029.6	1409.4	2209.1	4320.7	5690.1	6747.2	7189.5
52.5°	462.3	464.8	499.8	614.7	794.7	1177.0	1916.7	4130.8	5977.5	7344.4	8204.0
55°	382.3	382.3	402.3	472.3	609.7	894.6	1574.3	3815.9	6012.5	8004.1	9311.1
56°	367.3	362.3	379.8	439.8	549.8	807.2	1414.4	3603.5	6062.4	8309.0	9865.8
57°	347.4	349.9	359.8	402.3	494.8	714.7	1237.0	3396.1	6027.5	8558.9	10275.7
58°	337.4	332.4	352.4	379.8	437.3	634.7	1114.5	3151.2	5972.5	8763.8	10872.9
59°	322.4	319.9	332.4	357.3	407.3	564.8	964.6	2886.3	5865.0	9028.7	11317.7
60°	317.4	314.9	319.9	339.9	374.8	494.8	849.6	2576.4	5577.7	9301.1	11870.0
61°	302.4	304.9	314.9	327.4	354.9	444.8	764.7	2259.0	5390.2	9531.0	12479.7
62°	304.9	299.9	304.9	314.9	334.9	409.8	669.7	1946.7	5055.4	9790.9	12937.1
63°	289.9	287.4	294.9	307.4	317.4	369.8	584.8	1681.8	4675.5	9850.9	13324.4
64°	284.9	282.4	284.9	302.4	304.9	347.4	517.3	1436.9	4125.8	9953.3	13821.7
65°	272.4	272.4	277.4	284.9	294.9	327.4	462.3	1247.0	3578.5	9683.4	13974.1
66°	262.4	264.9	264.9	277.4	284.9	304.9	424.8	1059.6	3053.7	9253.6	14121.6
67°	254.9	254.9	257.4	267.4	274.9	287.4	382.3	917.1	2576.4	8741.3	13894.1
67.5°	249.9	252.4	252.4	262.4	269.9	287.4	364.8	869.6	2304.0	8179.1	13724.2
68°	242.4	244.9	244.9	254.9	262.4	277.4	352.4	794.7	2124.1	7814.2	13409.4
69°	237.4	234.9	234.9	244.9	254.9	264.9	327.4	694.7	1689.3	6794.6	12949.5
70°	222.4	222.4	227.4	234.9	242.4	252.4	302.4	612.2	1429.4	5625.1	11765.0
71°	214.9	212.4	214.9	222.4	229.9	242.4	277.4	542.3	1169.5	4670.5	10600.5
72°	199.9	204.9	204.9	212.4	219.9	227.4	259.9	472.3	982.1	3733.4	9318.6
72.5°	197.4	197.4	199.9	207.4	212.4	224.9	249.9	452.3	897.1	3291.1	8781.3
73°	189.9	189.9	192.4	199.9	204.9	217.4	242.4	407.3	817.2	2928.8	7776.7
74°	182.4	179.9	179.9	189.9	192.4	204.9	227.4	359.8	684.7	2206.6	6242.4
75°	169.9	169.9	172.4	177.4	179.9	189.9	209.9	319.9	577.3	1711.8	4882.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	139.9	142.4	144.9	149.9	149.9	157.4	172.4	222.4	352.4	867.1	2241.6
80°	102.5	107.5	115.0	122.4	119.9	119.9	134.9	159.9	209.9	389.8	859.6
82.5°	82.5	87.5	80.0	90.0	90.0	85.0	97.5	117.5	142.4	192.4	307.4
85°	55.0	57.5	47.5	55.0	52.5	52.5	65.0	70.0	87.5	107.5	152.4
87.5°	25.0	25.0	20.0	22.5	22.5	22.5	32.5	25.0	37.5	52.5	90.0
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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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1
2.5°	2134.1	2144.1	2144.1	2134.1	2126.6	2134.1	2129.1	2116.6	2129.1	2134.1	2136.6
5°	2164.1	2144.1	2154.1	2131.6	2146.6	2144.1	2139.1	2151.6	2154.1	2154.1	2171.6
7.5°	2196.6	2221.6	2189.1	2191.6	2199.1	2169.1	2179.1	2184.1	2174.1	2194.1	2209.1
10°	2254.1	2264.0	2254.1	2216.6	2241.6	2221.6	2214.1	2236.6	2231.6	2236.6	2259.0
12.5°	2306.5	2324.0	2296.5	2294.0	2281.5	2264.0	2274.0	2271.5	2306.5	2311.5	2339.0
15°	2414.0	2369.0	2359.0	2356.5	2351.5	2344.0	2349.0	2351.5	2396.5	2404.0	2469.0
17.5°	2506.4	2498.9	2444.0	2464.0	2464.0	2434.0	2421.5	2464.0	2498.9	2536.4	2581.4
20°	2601.4	2593.9	2533.9	2536.4	2513.9	2541.4	2526.4	2566.4	2626.4	2638.9	2678.9
22.5°	2713.9	2681.4	2638.9	2643.9	2651.4	2631.4	2621.4	2676.4	2736.3	2771.3	2773.8
25°	2891.3	2808.8	2773.8	2778.8	2768.8	2753.8	2761.3	2831.3	2861.3	2936.3	2921.3
27.5°	2986.2	2938.8	2913.8	2856.3	2858.8	2836.3	2866.3	2971.2	3031.2	3088.7	2973.7
30°	3101.2	3071.2	2961.3	2941.3	2938.8	2928.8	2983.7	3118.7	3208.6	3241.1	3076.2
32.5°	3326.1	3206.1	3178.7	3161.2	3121.2	3133.7	3161.2	3338.6	3481.0	3473.5	3171.2
35°	3583.5	3501.0	3423.6	3408.6	3403.6	3368.6	3416.1	3623.5	3733.4	3700.9	3206.1
37.5°	3995.8	3870.9	3765.9	3708.4	3698.4	3673.5	3785.9	3950.8	4093.3	3965.8	3233.6
40°	4198.2	4058.3	3960.8	3925.8	3933.3	3968.3	4078.3	4330.7	4393.1	4158.2	3256.1
42.5°	4488.1	4335.7	4143.3	4125.8	4103.3	4120.8	4333.2	4673.0	4725.5	4418.1	3171.2
45°	5002.9	4773.0	4550.6	4450.6	4455.6	4503.1	4833.0	5205.3	5107.8	4598.1	3036.2
47.5°	5652.6	5315.3	5135.3	5000.4	5065.4	5012.9	5537.7	5835.0	5502.7	4825.5	2871.3
50°	6629.7	6157.4	5912.5	5750.1	5777.6	5822.5	6354.8	6607.2	5940.0	4935.4	2618.9
52.5°	7861.7	7254.4	6894.6	6677.2	6697.2	6794.6	7481.8	7404.4	6439.8	5027.9	2281.5
55°	9336.1	8711.3	8014.1	7924.2	7901.7	8134.1	8891.3	8239.0	6889.6	4880.4	1931.7
56°	10115.7	9451.0	8726.3	8541.4	8486.4	8648.9	9538.5	8656.4	7044.5	4715.5	1764.3
57°	10778.0	10143.2	9348.6	9033.7	9103.7	9408.5	10180.7	9048.7	7187.0	4545.6	1606.8
58°	11687.6	10962.9	10123.2	9883.3	9820.9	10063.3	10872.9	9443.5	7234.5	4370.7	1461.9
59°	12594.7	11725.1	10967.9	10530.6	10548.1	10990.4	11555.1	9913.3	7306.9	4148.3	1277.0
60°	13284.4	12847.1	11835.0	11507.7	11462.7	12102.4	12234.8	10228.2	7384.4	3848.4	1147.0
61°	14261.5	13691.7	12749.6	12327.3	12449.8	12962.0	12969.5	10623.0	7269.4	3468.5	987.1
62°	14963.7	14813.8	13824.2	13421.8	13384.4	14064.1	13734.2	10970.4	7169.5	3108.7	872.1
63°	15785.9	15785.9	14883.7	14568.9	14586.4	15123.6	14066.6	11317.7	7054.5	2711.4	767.2
64°	16213.2	16750.4	15918.3	15476.0	15590.9	16055.7	14658.8	11545.1	6699.7	2309.0	674.7
65°	16583.0	17390.2	16927.9	16723.0	16548.0	16822.9	15171.1	11757.5	6157.4	1964.2	599.7
66°	16895.4	17992.4	17840.0	17620.1	17602.6	17540.1	15271.1	11750.1	5597.6	1659.3	524.8
67°	16737.9	18004.9	18282.3	18374.8	18347.3	17687.5	15096.1	11482.7	4880.4	1401.9	467.3
67.5°	16595.5	17902.5	18547.2	18494.7	18609.7	17812.5	15126.1	11155.3	4370.7	1269.5	439.8
68°	16470.6	17765.0	18654.6	18722.1	18664.6	17827.5	14961.2	10895.4	4023.3	1192.0	414.8
69°	15523.5	17112.8	18482.2	18724.6	18577.2	17255.2	14436.4	10218.2	3196.2	1017.1	382.3
70°	14573.9	16268.1	17645.1	18089.9	17907.5	16148.2	13774.2	9141.1	2636.4	869.6	344.9
71°	13259.4	14698.8	16530.5	16797.9	16578.0	14888.7	12404.8	8004.1	2051.6	737.2	307.4
72°	11475.2	12697.2	14446.4	15093.6	14768.8	13077.0	11020.4	6614.7	1661.8	619.7	279.9
72.5°	10590.5	11842.5	13529.3	13581.8	13644.3	12289.8	10433.1	5810.1	1449.4	574.8	272.4
73°	9750.9	10977.9	12437.3	12622.2	12357.3	10962.9	9556.0	5195.3	1324.4	524.8	262.4
74°	7901.7	8601.4	9810.9	9990.8	9758.4	8938.7	7809.2	3983.3	1054.6	452.3	239.9
75°	6217.4	6602.2	7696.8	7586.8	7239.5	6952.1	6054.9	3043.7	854.6	397.3	222.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2793.8	3026.2	3208.6	3208.6	3228.6	3081.2	2791.3	1396.9	527.3	287.4	182.4
80°	1064.6	1192.0	1232.0	1234.5	1252.0	1297.0	1207.0	687.2	312.4	204.9	147.4
82.5°	772.2	1079.5	1162.0	1102.0	1107.0	999.6	462.3	304.9	197.4	142.4	107.5
85°	699.7	939.6	994.6	987.1	989.6	924.6	272.4	149.9	115.0	90.0	75.0
87.5°	339.9	332.4	352.4	397.3	387.3	502.3	229.9	75.0	50.0	37.5	37.5
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: P672984

CATALOG NUMBER: CCP-SA-2E-740-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	2129.1	2129.1	2129.1	2129.1	2129.1	2129.1
2.5°	2116.6	2114.1	2149.1	2114.1	2134.1	2119.1
5°	2141.6	2151.6	2159.1	2174.1	2139.1	2174.1
7.5°	2216.6	2226.6	2229.1	2241.6	2226.6	2224.1
10°	2274.0	2299.0	2314.0	2264.0	2294.0	2291.5
12.5°	2386.5	2361.5	2359.0	2349.0	2321.5	2311.5
15°	2466.5	2429.0	2406.5	2366.5	2334.0	2321.5
17.5°	2578.9	2506.4	2414.0	2331.5	2274.0	2229.1
20°	2648.9	2518.9	2334.0	2236.6	2149.1	2169.1
22.5°	2693.9	2506.4	2261.5	2136.6	2049.1	2074.1
25°	2708.9	2444.0	2211.6	2056.6	1971.7	1954.2
27.5°	2666.4	2371.5	2114.1	1939.2	1864.2	1879.2
30°	2646.4	2266.5	2024.1	1851.7	1751.8	1766.8
32.5°	2593.9	2159.1	1904.2	1729.3	1656.8	1631.8
35°	2518.9	2069.1	1789.2	1624.3	1536.9	1516.9
37.5°	2426.5	1956.7	1689.3	1489.4	1411.9	1396.9
40°	2289.0	1821.7	1544.3	1371.9	1282.0	1279.5
42.5°	2169.1	1691.8	1409.4	1232.0	1142.0	1147.0
45°	2016.7	1516.9	1254.5	1102.0	1012.1	1017.1
47.5°	1821.7	1354.4	1107.0	937.1	862.1	857.1
50°	1591.8	1169.5	927.1	782.2	719.7	707.2
52.5°	1371.9	982.1	759.7	629.7	577.3	572.3
55°	1094.5	764.7	592.3	494.8	454.8	457.3
56°	994.6	704.7	539.8	452.3	422.3	422.3
57°	899.6	624.7	489.8	417.3	389.8	389.8
58°	794.7	549.8	444.8	377.3	364.8	354.9
59°	722.2	499.8	402.3	357.3	337.4	334.9
60°	637.2	449.8	374.8	334.9	319.9	317.4
61°	564.8	404.8	344.9	312.4	307.4	307.4
62°	504.8	374.8	319.9	302.4	299.9	292.4
63°	452.3	344.9	307.4	287.4	279.9	287.4
64°	404.8	317.4	297.4	282.4	272.4	277.4
65°	367.3	304.9	284.9	274.9	264.9	267.4
66°	342.4	284.9	274.9	262.4	257.4	259.9
67°	309.9	274.9	264.9	252.4	249.9	252.4
67.5°	299.9	267.4	259.9	247.4	244.9	247.4
68°	292.4	262.4	257.4	244.9	242.4	239.9
69°	272.4	252.4	244.9	239.9	234.9	232.4
70°	254.9	242.4	237.4	229.9	224.9	222.4
71°	244.9	229.9	227.4	219.9	214.9	212.4
72°	232.4	222.4	217.4	207.4	204.9	207.4
72.5°	229.9	217.4	214.9	204.9	202.4	202.4
73°	222.4	207.4	209.9	199.9	194.9	199.9
74°	207.4	202.4	197.4	189.9	187.4	187.4
75°	194.9	189.9	184.9	179.9	179.9	179.9



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	135°	145°	155°	165°	175°	180°
77.5°	164.9	162.4	164.9	154.9	152.4	149.9
80°	132.4	132.4	134.9	127.4	122.4	119.9
82.5°	100.0	102.5	107.5	100.0	95.0	90.0
85°	65.0	67.5	67.5	60.0	70.0	65.0
87.5°	32.5	35.0	32.5	30.0	35.0	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)