

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: P676118

Luminaire Tested: **CCW-SA-2E-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676118
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

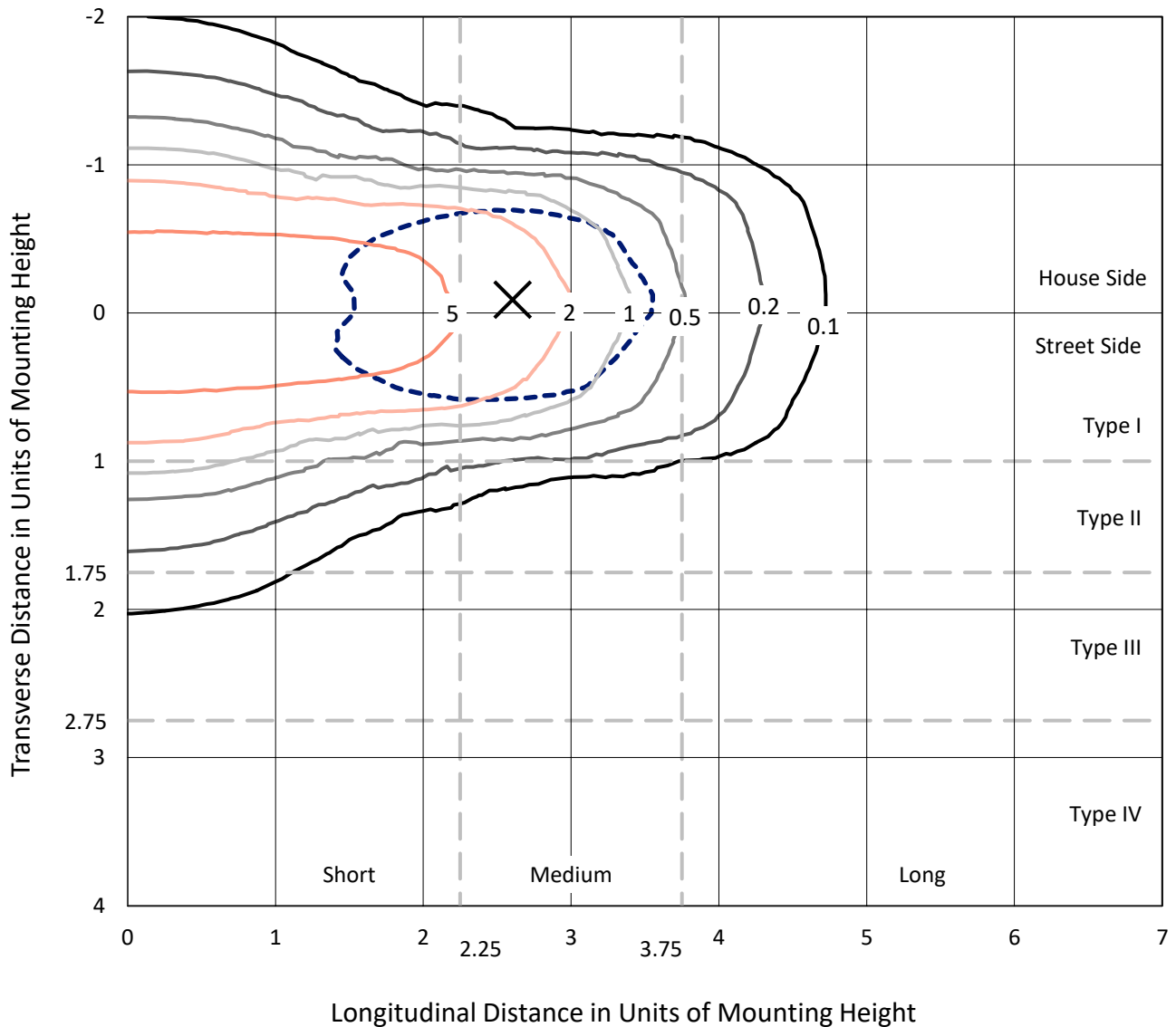
Lumens per Lamp: N/A
Luminaire Lumens: 12124.2 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

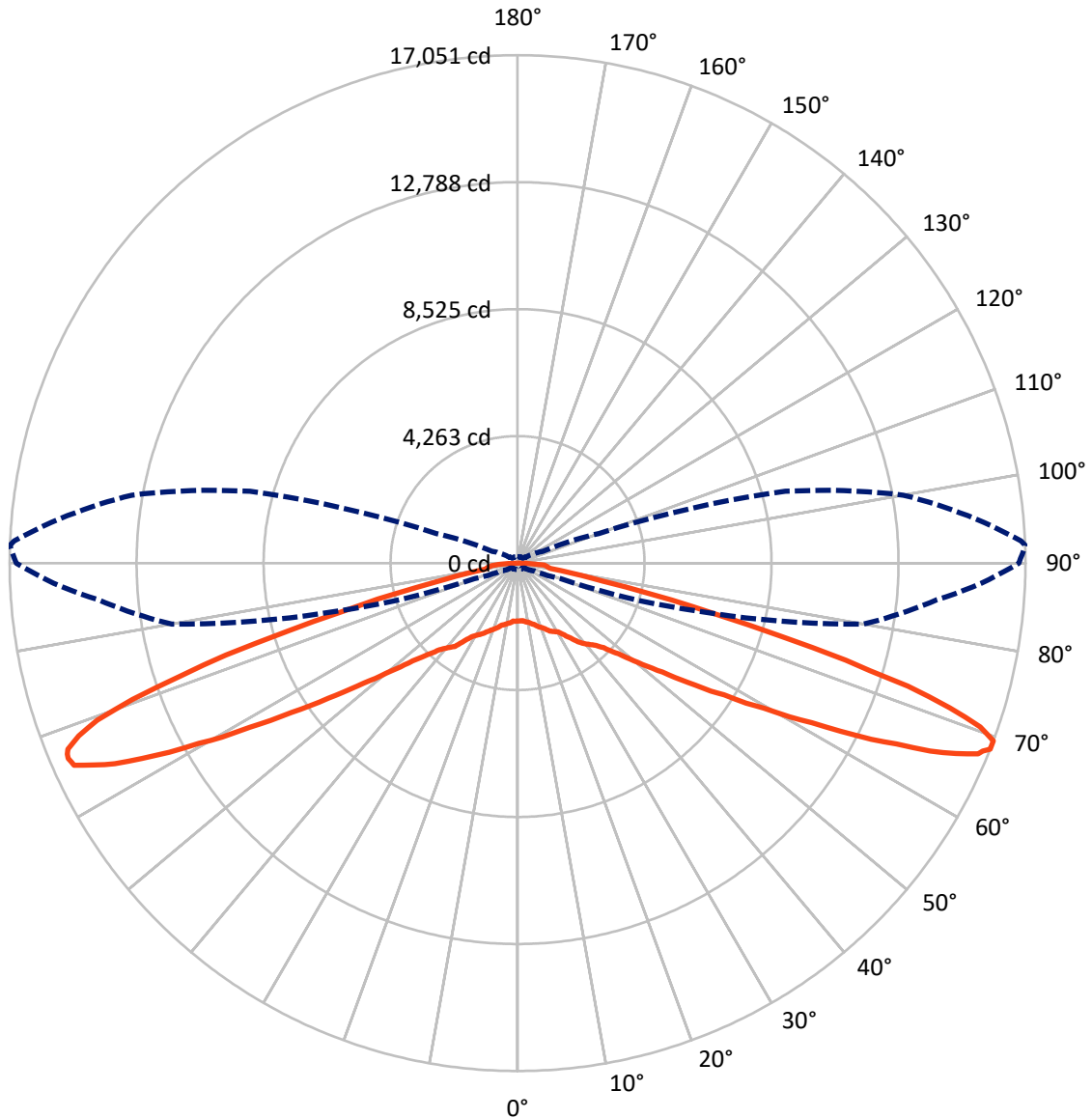
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.4 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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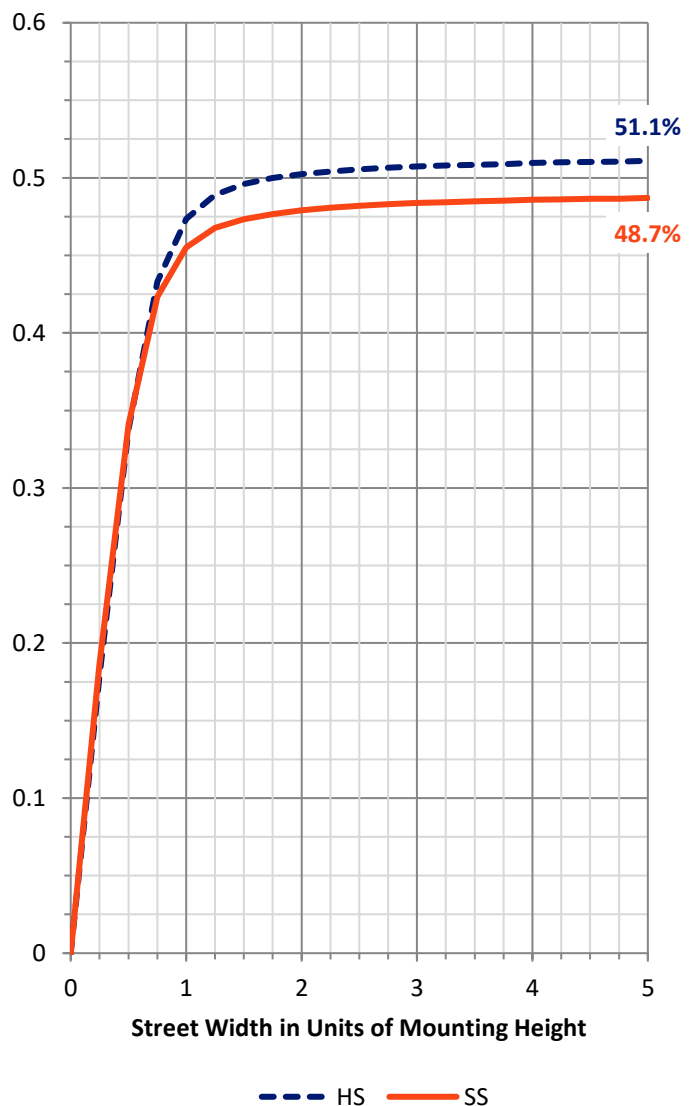
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6243.8	0.0	6243.8
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	5880.4	0.0	5880.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	12124.2	0.0	12124.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	1.6
10°-20°	628.9	5.2
20°-30°	1073.4	8.9
30°-40°	1498.7	12.4
40°-50°	1906.4	15.7
50°-60°	2410.5	19.9
60°-70°	2972.7	24.5
70°-80°	1298.6	10.7
80°-90°	140.8	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°	12124.2	100.0
0°-180°	12124.2	100.0



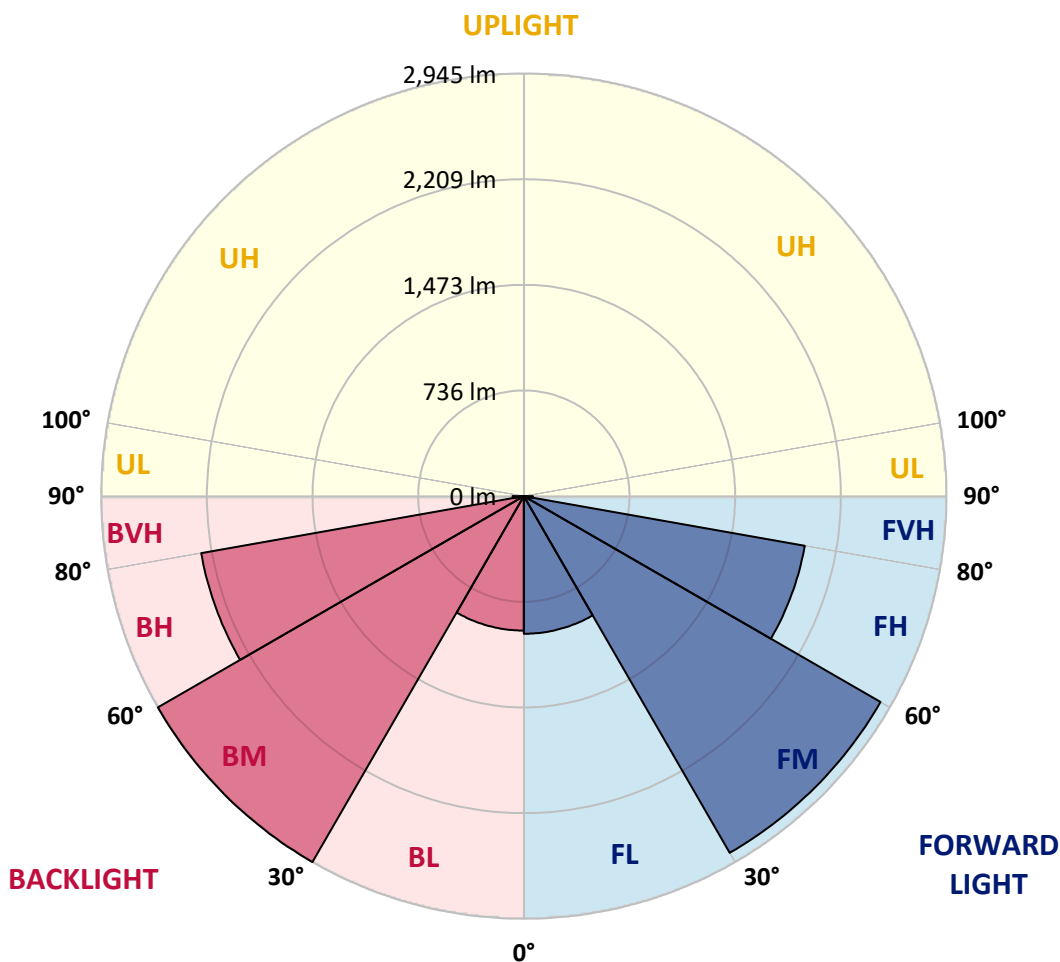
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.5	7.9			
FM (30°-60°)	2870.3	23.7			
FH (60°-80°)	1988.1	16.4			G2/5000
FVH (80°-90°)	62.5	0.5			G1/100
BL (0°-30°)	937.0	7.7	B2/1000		
BM (30°-60°)	2945.2	24.3	B3/5000		
BH (60°-80°)	2283.2	18.8	B3/2500		G3/2500
BVH (80°-90°)	78.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8
2.5°	1979.7	1977.4	1984.3	1988.8	1968.3	1975.2	1970.6	1966.1	1950.1	1943.3	1929.7
5°	2034.3	2041.2	2063.9	2043.4	2052.5	2041.2	2004.8	2016.1	1995.6	1991.1	1977.4
7.5°	2129.9	2116.3	2148.1	2125.4	2132.2	2109.4	2093.5	2073.0	2068.5	2036.6	2038.9
10°	2150.4	2177.7	2191.3	2186.8	2191.3	2202.7	2173.1	2141.3	2098.0	2088.9	2057.1
12.5°	2136.7	2161.8	2198.2	2227.8	2248.2	2252.8	2241.4	2234.6	2216.4	2164.0	2161.8
15°	2123.1	2104.9	2127.6	2230.0	2298.3	2343.8	2359.7	2321.1	2325.6	2257.3	2230.0
17.5°	2032.1	2004.8	2093.5	2193.6	2277.8	2377.9	2455.3	2443.9	2443.9	2389.3	2350.6
20°	1911.5	1957.0	2002.5	2129.9	2284.6	2434.8	2582.7	2575.9	2548.6	2532.7	2448.5
22.5°	1809.1	1829.5	1913.7	2048.0	2241.4	2450.8	2626.0	2751.1	2687.4	2623.7	2573.6
25°	1738.5	1720.3	1827.3	1966.1	2200.4	2423.5	2707.9	2837.6	2871.7	2823.9	2728.4
27.5°	1638.4	1638.4	1722.6	1854.6	2068.5	2409.8	2787.5	2985.5	3035.6	2965.0	2826.2
30°	1524.6	1538.3	1611.1	1761.3	1970.6	2309.7	2819.4	3156.2	3197.1	3135.7	2992.3
32.5°	1435.9	1435.9	1517.8	1677.1	1902.4	2264.2	2798.9	3324.6	3401.9	3356.4	3208.5
35°	1340.3	1333.5	1392.6	1567.8	1793.1	2175.4	2792.1	3458.8	3631.8	3634.0	3479.3
37.5°	1203.8	1231.1	1306.2	1445.0	1706.7	2088.9	2771.6	3620.4	3929.9	3982.2	3875.2
40°	1112.7	1124.1	1192.4	1344.8	1572.4	1986.5	2742.0	3752.4	4127.8	4307.6	4159.7
42.5°	980.8	996.7	1049.0	1237.9	1442.7	1840.9	2612.3	3845.7	4410.0	4614.8	4489.6
45°	842.0	851.1	928.4	1083.2	1303.9	1668.0	2473.5	3995.9	4683.1	5101.8	5028.9
47.5°	675.8	680.4	746.4	907.9	1137.8	1495.0	2259.6	3989.0	4903.8	5588.7	5793.5
50°	527.9	539.3	589.4	721.3	937.5	1283.4	2011.6	3934.4	5181.4	6144.0	6546.7
52.5°	421.0	423.3	455.1	559.8	723.6	1071.8	1745.3	3761.5	5443.1	6687.8	7470.6
55°	348.2	348.2	366.4	430.1	555.2	814.6	1433.6	3474.8	5475.0	7288.6	8478.7
56°	334.5	330.0	345.9	400.5	500.6	735.0	1288.0	3281.3	5520.5	7566.2	8983.8
57°	316.3	318.6	327.7	366.4	450.6	650.8	1126.4	3092.5	5488.6	7793.7	9357.0
58°	307.2	302.6	320.9	345.9	398.2	578.0	1014.9	2869.5	5438.5	7980.3	9900.9
59°	293.5	291.3	302.6	325.4	370.9	514.3	878.4	2628.3	5340.7	8221.5	10305.9
60°	289.0	286.7	291.3	309.5	341.3	450.6	773.7	2346.1	5079.0	8469.6	10808.8
61°	275.3	277.6	286.7	298.1	323.1	405.0	696.3	2057.1	4908.3	8678.9	11364.1
62°	277.6	273.1	277.6	286.7	304.9	373.2	609.8	1772.6	4603.4	8915.6	11780.5
63°	264.0	261.7	268.5	279.9	289.0	336.8	532.5	1531.4	4257.5	8970.2	12133.2
64°	259.4	257.1	259.4	275.3	277.6	316.3	471.0	1308.4	3756.9	9063.5	12586.0
65°	248.0	248.0	252.6	259.4	268.5	298.1	421.0	1135.5	3258.6	8817.7	12724.8
66°	238.9	241.2	241.2	252.6	259.4	277.6	386.8	964.8	2780.7	8426.3	12859.1
67°	232.1	232.1	234.4	243.5	250.3	261.7	348.2	835.1	2346.1	7959.8	12652.0
67.5°	227.6	229.8	229.8	238.9	245.8	261.7	332.2	791.9	2098.0	7447.8	12497.3
68°	220.7	223.0	223.0	232.1	238.9	252.6	320.9	723.6	1934.2	7115.6	12210.6
69°	216.2	213.9	213.9	223.0	232.1	241.2	298.1	632.6	1538.3	6187.2	11791.9
70°	202.5	202.5	207.1	213.9	220.7	229.8	275.3	557.5	1301.6	5122.2	10713.2
71°	195.7	193.4	195.7	202.5	209.3	220.7	252.6	493.8	1065.0	4253.0	9652.8
72°	182.0	186.6	186.6	193.4	200.2	207.1	236.7	430.1	894.3	3399.7	8485.5
72.5°	179.8	179.8	182.0	188.9	193.4	204.8	227.6	411.9	816.9	2996.9	7996.3
73°	172.9	172.9	175.2	182.0	186.6	198.0	220.7	370.9	744.1	2666.9	7081.5
74°	166.1	163.8	163.8	172.9	175.2	186.6	207.1	327.7	623.5	2009.3	5684.3
75°	154.7	154.7	157.0	161.6	163.8	172.9	191.1	291.3	525.7	1558.7	4446.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	127.4	129.7	132.0	136.5	136.5	143.4	157.0	202.5	320.9	789.6	2041.2
80°	93.3	97.8	104.7	111.5	109.2	109.2	122.9	145.6	191.1	355.0	782.8
82.5°	75.1	79.6	72.8	81.9	81.9	77.4	88.7	107.0	129.7	175.2	279.9
85°	50.1	52.3	43.2	50.1	47.8	47.8	59.2	63.7	79.6	97.8	138.8
87.5°	22.8	22.8	18.2	20.5	20.5	20.5	29.6	22.8	34.1	47.8	81.9
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°	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8
2.5°	1943.3	1952.4	1952.4	1943.3	1936.5	1943.3	1938.8	1927.4	1938.8	1943.3	1945.6
5°	1970.6	1952.4	1961.5	1941.0	1954.7	1952.4	1947.9	1959.2	1961.5	1961.5	1977.4
7.5°	2000.2	2023.0	1993.4	1995.6	2002.5	1975.2	1984.3	1988.8	1979.7	1997.9	2011.6
10°	2052.5	2061.6	2052.5	2018.4	2041.2	2023.0	2016.1	2036.6	2032.1	2036.6	2057.1
12.5°	2100.3	2116.3	2091.2	2088.9	2077.6	2061.6	2070.7	2068.5	2100.3	2104.9	2129.9
15°	2198.2	2157.2	2148.1	2145.8	2141.3	2134.5	2139.0	2141.3	2182.2	2189.1	2248.2
17.5°	2282.4	2275.5	2225.5	2243.7	2243.7	2216.4	2205.0	2243.7	2275.5	2309.7	2350.6
20°	2368.8	2362.0	2307.4	2309.7	2289.2	2314.2	2300.6	2337.0	2391.6	2403.0	2439.4
22.5°	2471.2	2441.7	2403.0	2407.5	2414.3	2396.1	2387.0	2437.1	2491.7	2523.6	2525.9
25°	2632.8	2557.7	2525.9	2530.4	2521.3	2507.6	2514.5	2578.2	2605.5	2673.8	2660.1
27.5°	2719.3	2676.0	2653.3	2600.9	2603.2	2582.7	2610.0	2705.6	2760.2	2812.6	2707.9
30°	2823.9	2796.6	2696.5	2678.3	2676.0	2666.9	2717.0	2839.9	2921.8	2951.4	2801.2
32.5°	3028.7	2919.5	2894.5	2878.6	2842.2	2853.5	2878.6	3040.1	3169.8	3163.0	2887.7
35°	3263.1	3188.0	3117.5	3103.8	3099.3	3067.4	3110.7	3299.5	3399.7	3370.1	2919.5
37.5°	3638.6	3524.8	3429.2	3376.9	3367.8	3345.0	3447.4	3597.6	3727.3	3611.3	2944.6
40°	3822.9	3695.5	3606.7	3574.9	3581.7	3613.6	3713.7	3943.5	4000.4	3786.5	2965.0
42.5°	4086.9	3948.1	3772.8	3756.9	3736.4	3752.4	3945.8	4255.3	4303.0	4023.2	2887.7
45°	4555.6	4346.3	4143.8	4052.7	4057.3	4100.5	4400.9	4740.0	4651.2	4187.0	2764.8
47.5°	5147.3	4840.1	4676.2	4553.4	4612.5	4564.7	5042.6	5313.4	5010.7	4394.1	2614.6
50°	6037.0	5606.9	5383.9	5236.0	5261.1	5302.0	5786.7	6016.5	5409.0	4494.2	2384.8
52.5°	7158.9	6605.9	6278.2	6080.2	6098.5	6187.2	6813.0	6742.4	5864.1	4578.4	2077.6
55°	8501.4	7932.5	7297.7	7215.7	7195.3	7406.9	8096.4	7502.5	6273.7	4444.1	1759.0
56°	9211.4	8606.1	7946.2	7777.8	7727.7	7875.6	8685.7	7882.5	6414.8	4293.9	1606.5
57°	9814.4	9236.4	8512.8	8226.1	8289.8	8567.4	9270.6	8239.7	6544.5	4139.2	1463.2
58°	10642.7	9982.8	9218.2	8999.8	8942.9	9163.6	9900.9	8599.3	6587.7	3979.9	1331.2
59°	11468.7	10676.8	9987.4	9589.1	9605.1	10007.8	10522.1	9027.1	6653.7	3777.4	1162.8
60°	12096.8	11698.6	10777.0	10478.9	10437.9	11020.4	11141.1	9313.8	6724.2	3504.3	1044.5
61°	12986.5	12467.7	11609.8	11225.2	11336.7	11803.2	11810.1	9673.3	6619.6	3158.5	898.8
62°	13625.9	13489.4	12588.3	12221.9	12187.8	12806.7	12506.4	9989.6	6528.5	2830.8	794.2
63°	14374.6	14374.6	13553.1	13266.4	13282.3	13771.6	12809.0	10305.9	6423.9	2469.0	698.6
64°	14763.7	15253.0	14495.2	14092.4	14197.1	14620.4	13348.3	10513.0	6100.7	2102.6	614.4
65°	15100.5	15835.5	15414.5	15227.9	15068.6	15318.9	13814.8	10706.4	5606.9	1788.6	546.1
66°	15384.9	16383.9	16245.1	16044.8	16028.9	15972.0	13905.8	10699.6	5097.2	1511.0	477.9
67°	15241.6	16395.3	16647.9	16732.1	16707.0	16106.3	13746.5	10456.1	4444.1	1276.6	425.5
67.5°	15111.9	16302.0	16889.1	16841.3	16946.0	16220.1	13773.9	10158.0	3979.9	1156.0	400.5
68°	14998.1	16176.8	16986.9	17048.4	16996.0	16233.7	13623.7	9921.4	3663.6	1085.4	377.7
69°	14135.7	15582.9	16829.9	17050.6	16916.4	15712.6	13145.8	9304.7	2910.4	926.1	348.2
70°	13271.0	14813.8	16067.6	16472.6	16306.5	14704.5	12542.8	8323.9	2400.7	791.9	314.0
71°	12074.0	13384.7	15052.7	15296.2	15095.9	13557.7	11295.8	7288.6	1868.2	671.3	279.9
72°	10449.3	11562.0	13154.9	13744.3	13448.5	11907.9	10035.1	6023.4	1513.2	564.3	254.9
72.5°	9643.7	10783.8	12319.8	12367.6	12424.5	11191.1	9500.4	5290.6	1319.8	523.4	248.0
73°	8879.2	9996.5	11325.4	11493.8	11252.6	9982.8	8701.7	4730.9	1206.0	477.9	238.9
74°	7195.3	7832.4	8933.8	9097.6	8886.0	8139.6	7111.1	3627.2	960.3	411.9	218.5
75°	5661.5	6012.0	7008.7	6908.5	6592.2	6330.6	5513.6	2771.6	778.2	361.8	202.5



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2544.1	2755.7	2921.8	2921.8	2940.0	2805.7	2541.8	1272.0	480.1	261.7	166.1
80°	969.4	1085.4	1121.8	1124.1	1140.0	1181.0	1099.1	625.8	284.4	186.6	134.3
82.5°	703.1	983.0	1058.1	1003.5	1008.1	910.2	421.0	277.6	179.8	129.7	97.8
85°	637.2	855.6	905.7	898.8	901.1	842.0	248.0	136.5	104.7	81.9	68.3
87.5°	309.5	302.6	320.9	361.8	352.7	457.4	209.3	68.3	45.5	34.1	34.1
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):

	135°	145°	155°	165°	175°	180°
0°	1938.8	1938.8	1938.8	1938.8	1938.8	1938.8
2.5°	1927.4	1925.1	1957.0	1925.1	1943.3	1929.7
5°	1950.1	1959.2	1966.1	1979.7	1947.9	1979.7
7.5°	2018.4	2027.5	2029.8	2041.2	2027.5	2025.2
10°	2070.7	2093.5	2107.2	2061.6	2088.9	2086.7
12.5°	2173.1	2150.4	2148.1	2139.0	2114.0	2104.9
15°	2246.0	2211.8	2191.3	2154.9	2125.4	2114.0
17.5°	2348.4	2282.4	2198.2	2123.1	2070.7	2029.8
20°	2412.1	2293.7	2125.4	2036.6	1957.0	1975.2
22.5°	2453.0	2282.4	2059.4	1945.6	1865.9	1888.7
25°	2466.7	2225.5	2013.9	1872.8	1795.4	1779.5
27.5°	2428.0	2159.5	1925.1	1765.8	1697.6	1711.2
30°	2409.8	2063.9	1843.2	1686.2	1595.2	1608.8
32.5°	2362.0	1966.1	1734.0	1574.7	1508.7	1485.9
35°	2293.7	1884.1	1629.3	1479.1	1399.5	1381.3
37.5°	2209.6	1781.7	1538.3	1356.2	1285.7	1272.0
40°	2084.4	1658.9	1406.3	1249.3	1167.4	1165.1
42.5°	1975.2	1540.5	1283.4	1121.8	1039.9	1044.5
45°	1836.4	1381.3	1142.3	1003.5	921.6	926.1
47.5°	1658.9	1233.3	1008.1	853.3	785.1	780.5
50°	1449.5	1065.0	844.2	712.2	655.4	644.0
52.5°	1249.3	894.3	691.8	573.4	525.7	521.1
55°	996.7	696.3	539.3	450.6	414.1	416.4
56°	905.7	641.7	491.5	411.9	384.6	384.6
57°	819.2	568.9	446.0	380.0	355.0	355.0
58°	723.6	500.6	405.0	343.6	332.2	323.1
59°	657.6	455.1	366.4	325.4	307.2	304.9
60°	580.3	409.6	341.3	304.9	291.3	289.0
61°	514.3	368.6	314.0	284.4	279.9	279.9
62°	459.7	341.3	291.3	275.3	273.1	266.2
63°	411.9	314.0	279.9	261.7	254.9	261.7
64°	368.6	289.0	270.8	257.1	248.0	252.6
65°	334.5	277.6	259.4	250.3	241.2	243.5
66°	311.7	259.4	250.3	238.9	234.4	236.7
67°	282.2	250.3	241.2	229.8	227.6	229.8
67.5°	273.1	243.5	236.7	225.3	223.0	225.3
68°	266.2	238.9	234.4	223.0	220.7	218.5
69°	248.0	229.8	223.0	218.5	213.9	211.6
70°	232.1	220.7	216.2	209.3	204.8	202.5
71°	223.0	209.3	207.1	200.2	195.7	193.4
72°	211.6	202.5	198.0	188.9	186.6	188.9
72.5°	209.3	198.0	195.7	186.6	184.3	184.3
73°	202.5	188.9	191.1	182.0	177.5	182.0
74°	188.9	184.3	179.8	172.9	170.7	170.7
75°	177.5	172.9	168.4	163.8	163.8	163.8



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	135°	145°	155°	165°	175°	180°
77.5°	150.2	147.9	150.2	141.1	138.8	136.5
80°	120.6	120.6	122.9	116.1	111.5	109.2
82.5°	91.0	93.3	97.8	91.0	86.5	81.9
85°	59.2	61.4	61.4	54.6	63.7	59.2
87.5°	29.6	31.9	29.6	27.3	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)