

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: P671321

Luminaire Tested: **CCP-SA-2D-840-U-SL2**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671321
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-840-U-SL2
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL2
distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9410.8 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

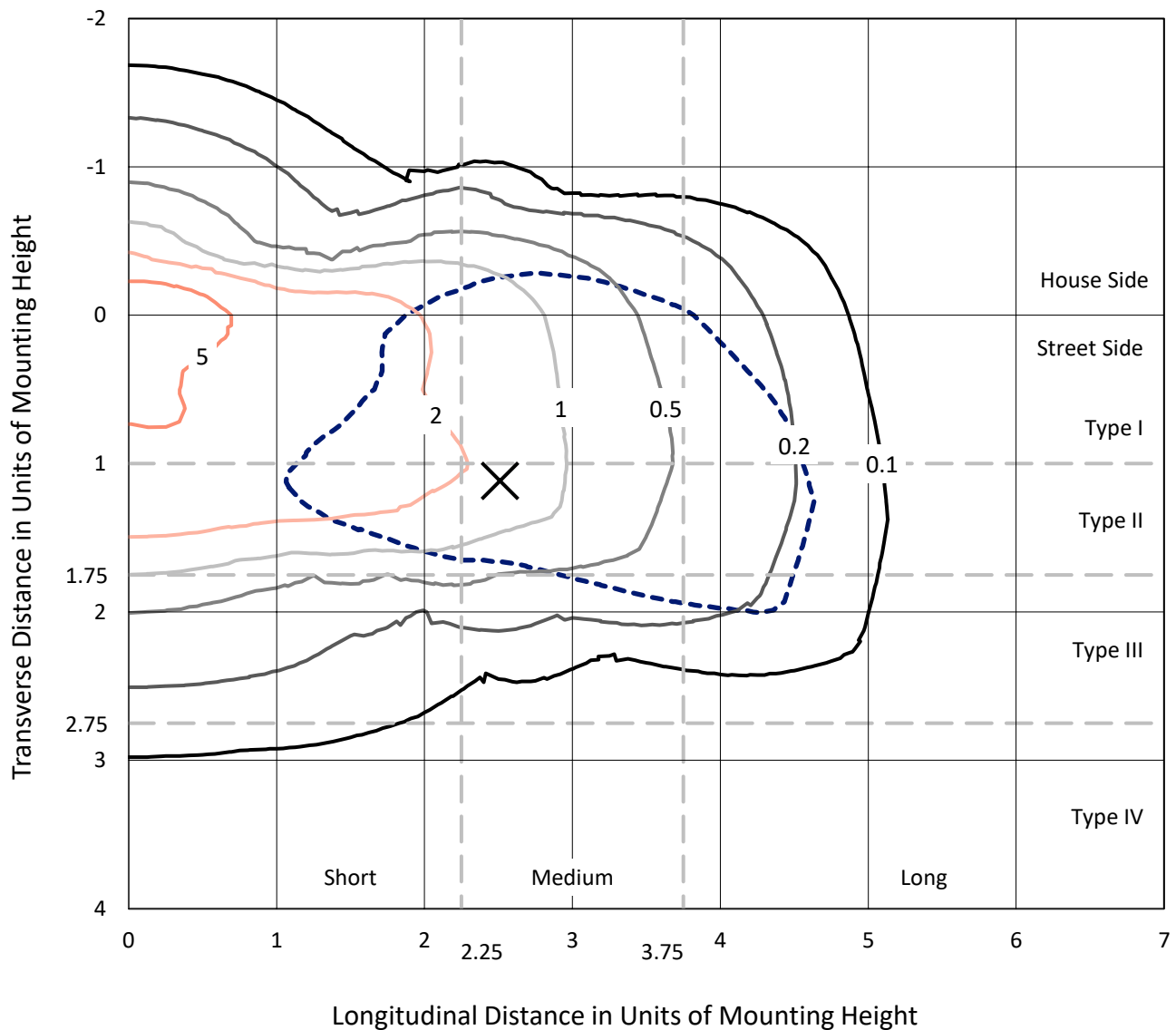
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

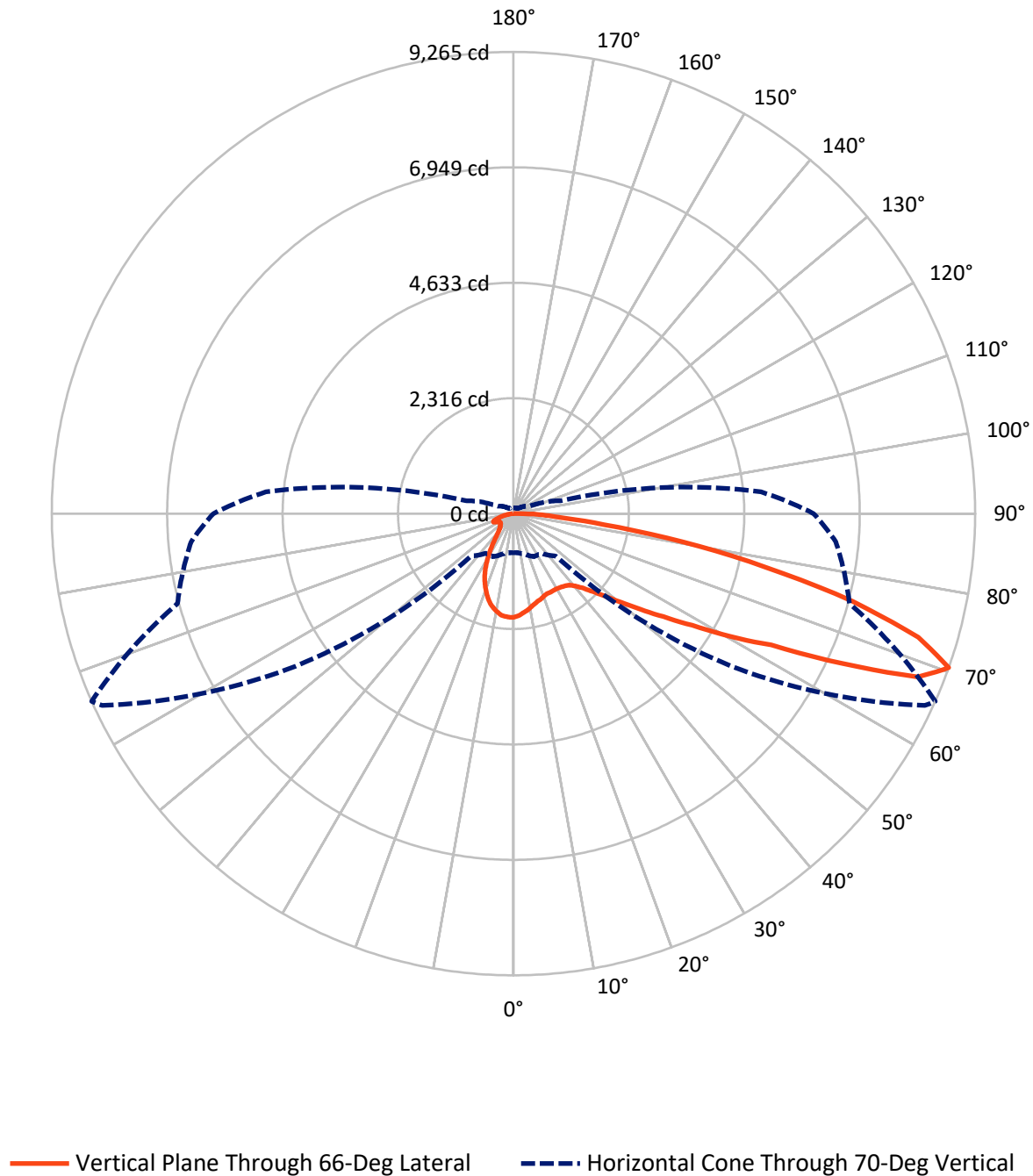
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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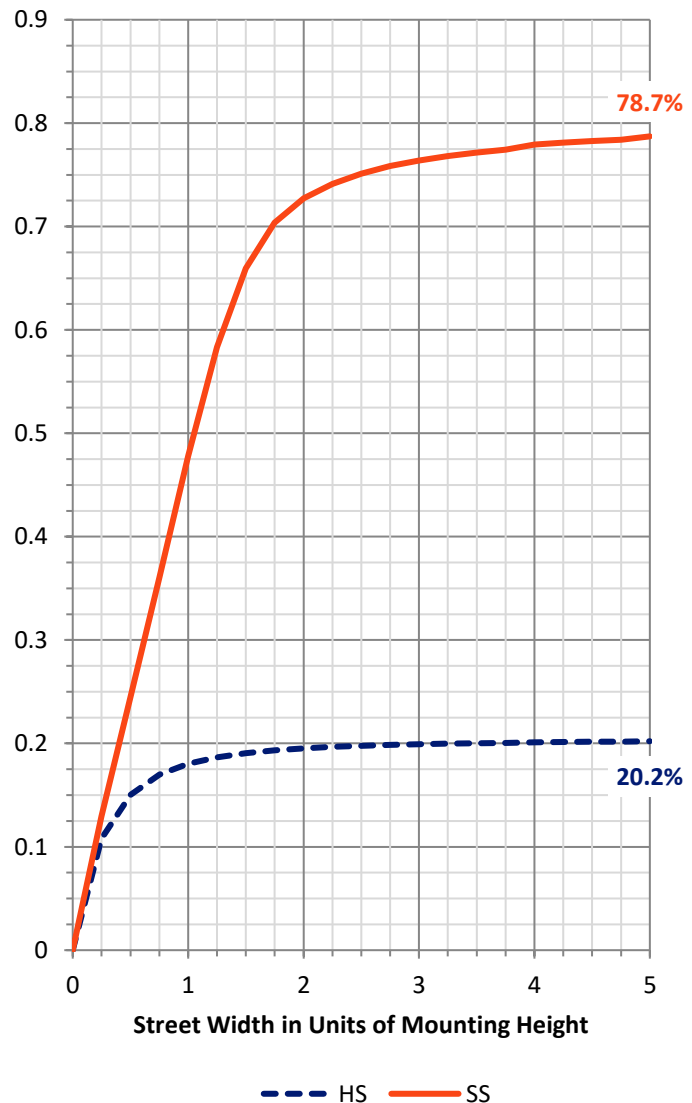
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.2	0.0	1926.2
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	7484.5	0.0	7484.5
	% Fixture	79.5	0.0	79.5
Total	Lumens	9410.8	0.0	9410.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.0
10°-20°	452.6	4.8
20°-30°	621.5	6.6
30°-40°	833.3	8.9
40°-50°	1209.1	12.8
50°-60°	1837.8	19.5
60°-70°	2269.8	24.1
70°-80°	1687.9	17.9
80°-90°	314.8	3.3
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°	9410.8	100.0
0°-180°	9410.8	100.0

Coefficient of Utilization



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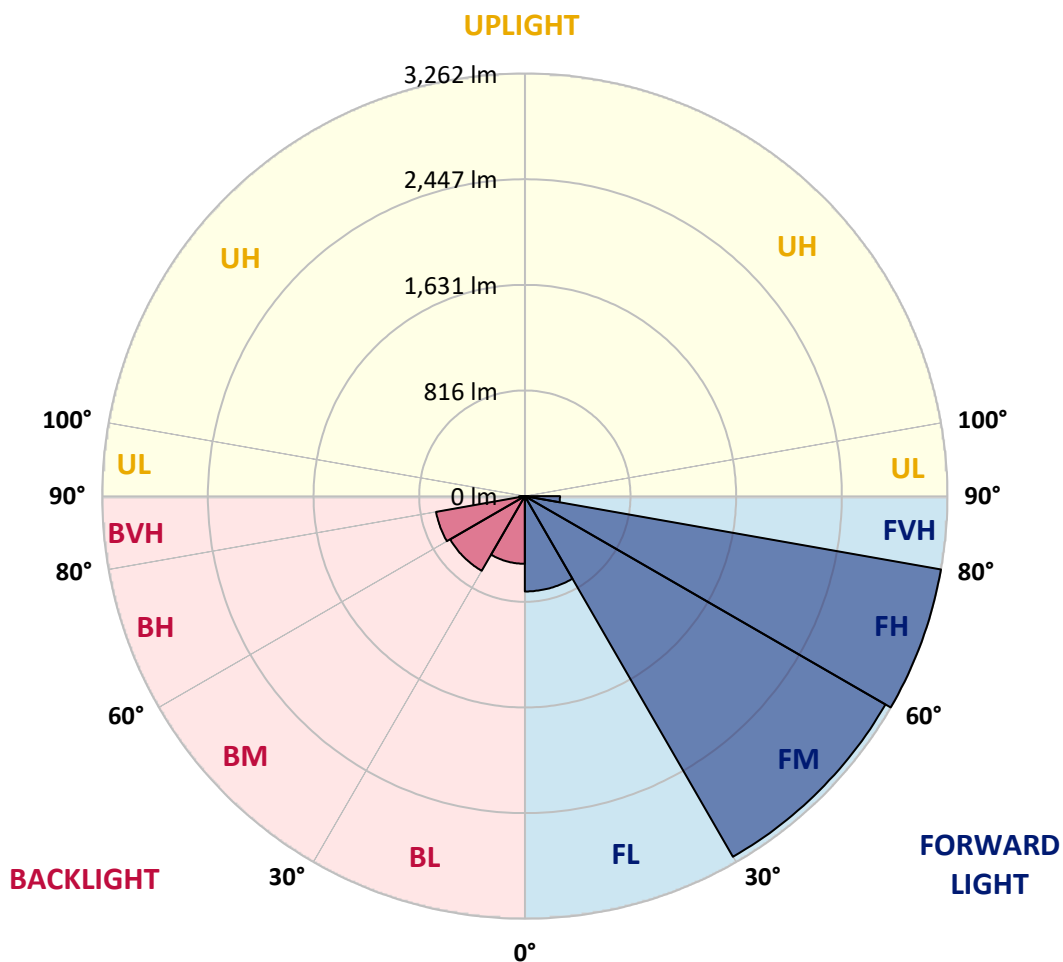
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.9	7.8			
FM	(30°-60°)	3214.9	34.2			
FH	(60°-80°)	3262.4	34.7			G2/5000
FVH	(80°-90°)	271.4	2.9			G3/500
BL	(0°-30°)	522.1	5.5	B2/1000		
BM	(30°-60°)	665.4	7.1	B1/1000		
BH	(60°-80°)	695.3	7.4	B2/1000		G2/1000
BVH	(80°-90°)	43.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1
2.5°	1977.6	1988.1	1991.6	1998.6	2016.1	2030.1	2051.1	2061.6	2051.1	2065.1	2065.1
5°	1841.1	1827.1	1862.1	1876.1	1897.1	1925.1	1974.1	2012.6	2002.1	2044.1	2079.1
7.5°	1725.6	1725.6	1736.1	1767.6	1792.1	1834.1	1886.6	1946.1	1963.6	2019.6	2072.1
10°	1620.6	1634.6	1634.6	1683.6	1697.6	1746.6	1834.1	1907.6	1911.1	2005.6	2079.1
12.5°	1564.6	1557.6	1592.6	1606.6	1648.6	1697.6	1767.6	1858.6	1862.1	1963.6	2065.1
15°	1519.1	1526.1	1543.6	1578.6	1617.1	1655.6	1722.1	1806.1	1823.6	1942.6	2058.1
17.5°	1522.6	1526.1	1526.1	1550.6	1582.1	1627.6	1690.6	1788.6	1799.1	1914.6	2047.6
20°	1543.6	1529.6	1540.1	1550.6	1571.6	1613.6	1666.1	1750.1	1760.6	1911.1	2072.1
22.5°	1589.1	1578.6	1575.1	1571.6	1568.1	1592.6	1659.1	1729.1	1739.6	1893.6	2082.6
25°	1662.6	1659.1	1634.6	1610.1	1592.6	1592.6	1645.1	1746.6	1743.1	1893.6	2089.6
27.5°	1750.1	1750.1	1746.6	1701.1	1648.6	1620.6	1655.6	1739.6	1736.1	1893.6	2107.1
30°	1869.1	1869.1	1858.6	1816.6	1722.1	1641.6	1662.6	1732.6	1743.1	1879.6	2093.1
32.5°	1998.6	1995.1	2005.6	1967.1	1869.1	1739.6	1704.6	1746.6	1757.1	1893.6	2096.6
35°	2093.1	2114.1	2149.1	2114.1	2016.1	1841.1	1764.1	1774.6	1781.6	1897.1	2110.6
37.5°	2201.6	2226.2	2275.2	2303.2	2198.1	1995.1	1858.6	1820.1	1820.1	1942.6	2114.1
40°	2359.2	2334.7	2418.7	2467.7	2425.7	2184.1	2005.6	1904.1	1907.6	2002.1	2159.6
42.5°	2474.7	2499.2	2586.7	2674.2	2621.7	2415.2	2166.6	2040.6	2040.6	2089.6	2229.7
45°	2604.2	2632.2	2754.7	2859.7	2898.2	2691.7	2387.2	2236.7	2229.7	2261.2	2355.7
47.5°	2747.7	2786.2	2926.2	3048.7	3150.2	2978.7	2670.7	2474.7	2471.2	2495.7	2565.7
50°	2912.2	2926.2	3041.7	3265.7	3468.7	3360.2	3017.2	2810.7	2793.2	2803.7	2898.2
52.5°	2961.2	2950.7	3083.7	3325.2	3696.3	3825.8	3489.7	3192.2	3185.2	3160.7	3283.2
55°	2782.7	2817.7	2947.2	3255.2	3881.8	4375.3	4007.8	3713.8	3650.7	3584.2	3731.3
57.5°	2425.7	2429.2	2576.2	2940.2	3738.3	4830.3	4886.3	4224.8	4228.3	4049.8	4217.8
60°	1886.6	1876.1	1991.6	2320.7	3328.7	4970.3	5845.4	5040.3	5005.3	4515.3	4669.3
62.5°	1361.6	1340.6	1365.1	1557.6	2488.7	4756.8	6787.0	5953.9	5806.9	4991.3	5110.3
65°	1120.1	1130.6	1141.1	1151.6	1396.6	3923.8	7077.5	7445.0	7249.0	5547.9	5596.9
67.5°	927.6	934.6	980.1	1043.1	1036.1	2317.2	6741.5	8824.1	8750.6	6237.4	6016.9
70°	787.6	784.1	836.6	952.1	969.6	1204.1	5337.9	9107.6	9265.1	6979.5	6492.9
72.5°	630.0	637.0	682.5	836.6	952.1	1015.1	3073.2	8498.6	8495.1	7550.0	6237.4
75°	451.5	451.5	514.5	693.0	920.6	1004.6	1701.1	6899.0	7028.5	7095.0	5411.4
77.5°	297.5	311.5	360.5	518.0	864.6	983.6	1078.1	5015.8	5176.9	5306.4	4140.8
80°	203.0	210.0	241.5	360.5	731.5	990.6	882.1	3374.2	3437.2	2929.7	1680.1
82.5°	122.5	126.0	161.0	252.0	525.0	941.6	829.6	1862.1	1823.6	885.6	483.0
85°	66.5	70.0	101.5	168.0	346.5	822.6	815.6	913.6	850.6	325.5	203.0
87.5°	24.5	24.5	45.5	84.0	199.5	563.5	710.5	542.5	507.5	164.5	94.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1
2.5°	2082.6	2082.6	2082.6	2082.6	2079.1	2065.1	2075.6	2072.1	2051.1	2054.6	2040.6
5°	2075.6	2093.1	2082.6	2068.6	2051.1	2009.1	1995.1	1984.6	1956.6	1946.1	1956.6
7.5°	2093.1	2079.1	2072.1	2047.6	1977.6	1939.1	1890.1	1830.6	1788.6	1778.1	1788.6
10°	2089.6	2089.6	2058.1	1988.1	1921.6	1809.6	1746.6	1641.6	1582.1	1564.6	1568.1
12.5°	2075.6	2086.1	2037.1	1925.1	1799.1	1662.6	1547.1	1435.1	1330.1	1288.1	1281.1
15°	2089.6	2079.1	1991.6	1848.1	1673.1	1484.1	1316.1	1151.6	1053.6	990.6	976.6
17.5°	2068.6	2058.1	1932.1	1743.1	1508.6	1267.1	1057.1	878.6	780.6	756.1	756.1
20°	2093.1	2026.6	1862.1	1617.1	1337.1	1029.1	791.1	658.0	633.5	633.5	640.5
22.5°	2089.6	2019.6	1802.6	1494.6	1130.6	777.1	588.0	549.5	553.0	581.0	577.5
25°	2068.6	2005.6	1718.6	1358.1	913.6	584.5	486.5	476.0	500.5	532.0	528.5
27.5°	2065.1	1967.1	1641.6	1197.1	696.5	462.0	423.5	423.5	448.0	476.0	472.5
30°	2044.1	1935.6	1547.1	1015.1	525.0	402.5	388.5	388.5	399.0	413.0	413.0
32.5°	2040.6	1893.6	1442.1	826.1	420.0	364.0	357.0	360.5	360.5	367.5	364.0
35°	2012.6	1837.6	1333.6	640.5	364.0	343.0	336.0	332.5	332.5	329.0	329.0
37.5°	2002.1	1802.6	1221.6	497.0	339.5	325.5	318.5	308.0	304.5	304.5	301.0
40°	2012.6	1767.6	1113.1	402.5	318.5	311.5	301.0	287.0	283.5	283.5	283.5
42.5°	2051.1	1764.1	1001.1	350.0	308.0	297.5	283.5	269.5	266.0	269.5	266.0
45°	2138.6	1792.1	892.6	325.5	294.0	283.5	266.0	255.5	252.0	255.5	255.5
47.5°	2282.2	1869.1	794.6	311.5	283.5	269.5	252.0	241.5	241.5	241.5	241.5
50°	2520.2	2016.1	700.0	301.0	276.5	259.0	241.5	227.5	224.0	224.0	227.5
52.5°	2877.2	2268.2	623.0	294.0	266.0	245.0	227.5	217.0	210.0	206.5	210.0
55°	3307.7	2635.7	598.5	287.0	252.0	234.5	217.0	203.0	196.0	196.0	192.5
57.5°	3769.8	3041.7	640.5	280.0	241.5	220.5	203.0	189.0	182.0	178.5	178.5
60°	4270.3	3521.2	794.6	276.5	231.0	206.5	189.0	178.5	168.0	164.5	164.5
62.5°	4725.3	3955.3	1071.1	273.0	224.0	192.5	175.0	161.0	154.0	150.5	150.5
65°	5243.4	4438.3	1340.6	287.0	220.5	182.0	161.0	147.0	140.0	136.5	136.5
67.5°	5694.9	4858.3	1498.1	322.0	231.0	168.0	143.5	133.0	129.5	126.0	126.0
70°	6023.9	4987.8	1004.6	353.5	248.5	157.5	129.5	122.5	115.5	115.5	115.5
72.5°	5582.9	4452.3	595.0	332.5	234.5	147.0	115.5	108.5	105.0	105.0	101.5
75°	4774.3	3790.8	458.5	269.5	189.0	126.0	101.5	94.5	91.0	91.0	87.5
77.5°	3524.7	2716.2	339.5	213.5	147.0	101.5	87.5	84.0	80.5	77.0	77.0
80°	1379.1	1190.1	231.0	157.5	108.5	80.5	73.5	70.0	66.5	63.0	63.0
82.5°	427.0	360.5	133.0	105.0	77.0	63.0	59.5	56.0	52.5	49.0	49.0
85°	185.5	178.5	87.5	66.5	52.5	42.0	42.0	38.5	35.0	31.5	31.5
87.5°	91.0	87.5	49.0	31.5	28.0	21.0	21.0	17.5	14.0	14.0	14.0
90°	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)