

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: P677074

Luminaire Tested: **CCW-SA-1D-850-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677074
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

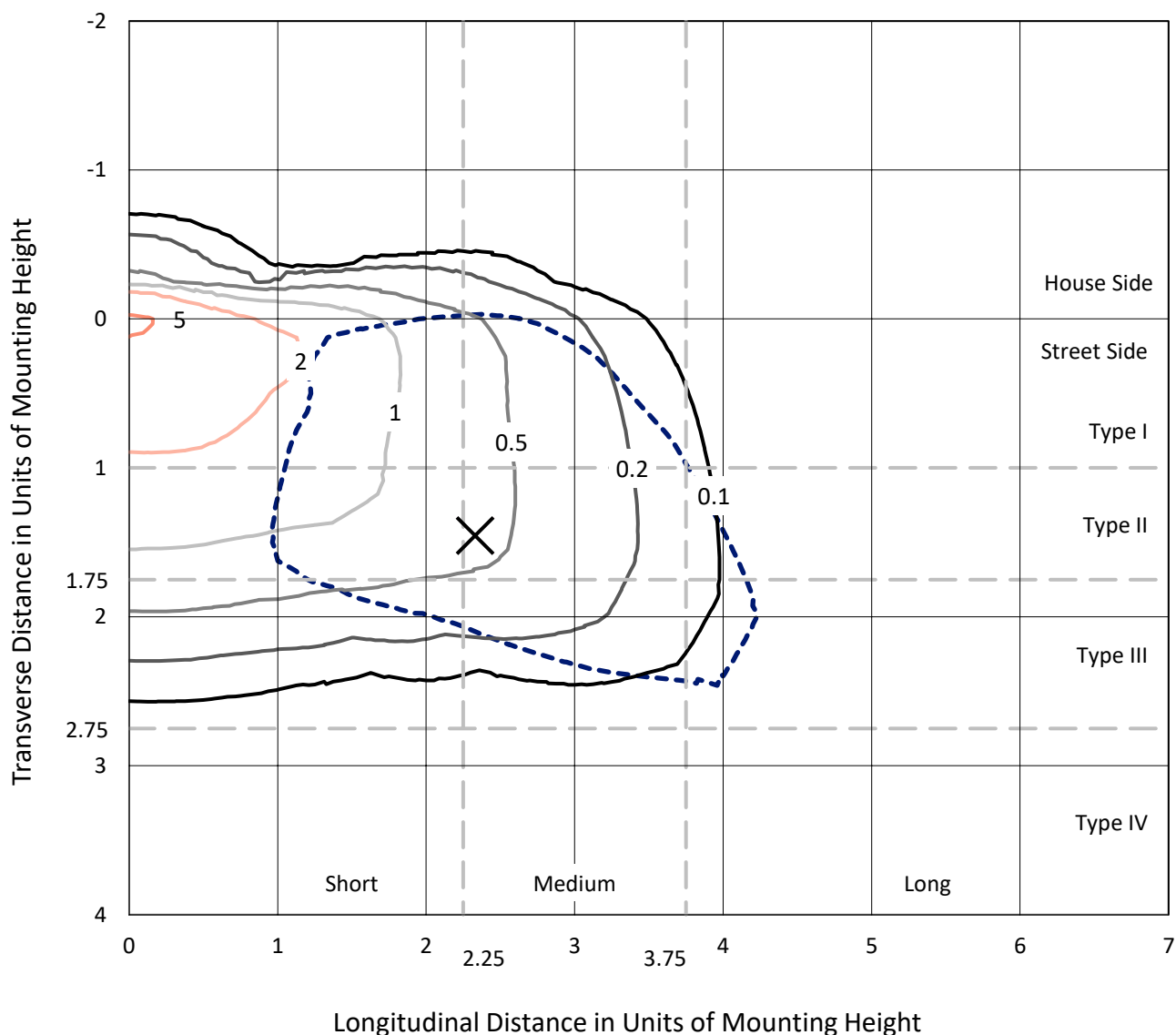
Lumens per Lamp: N/A
Luminaire Lumens: 4021.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

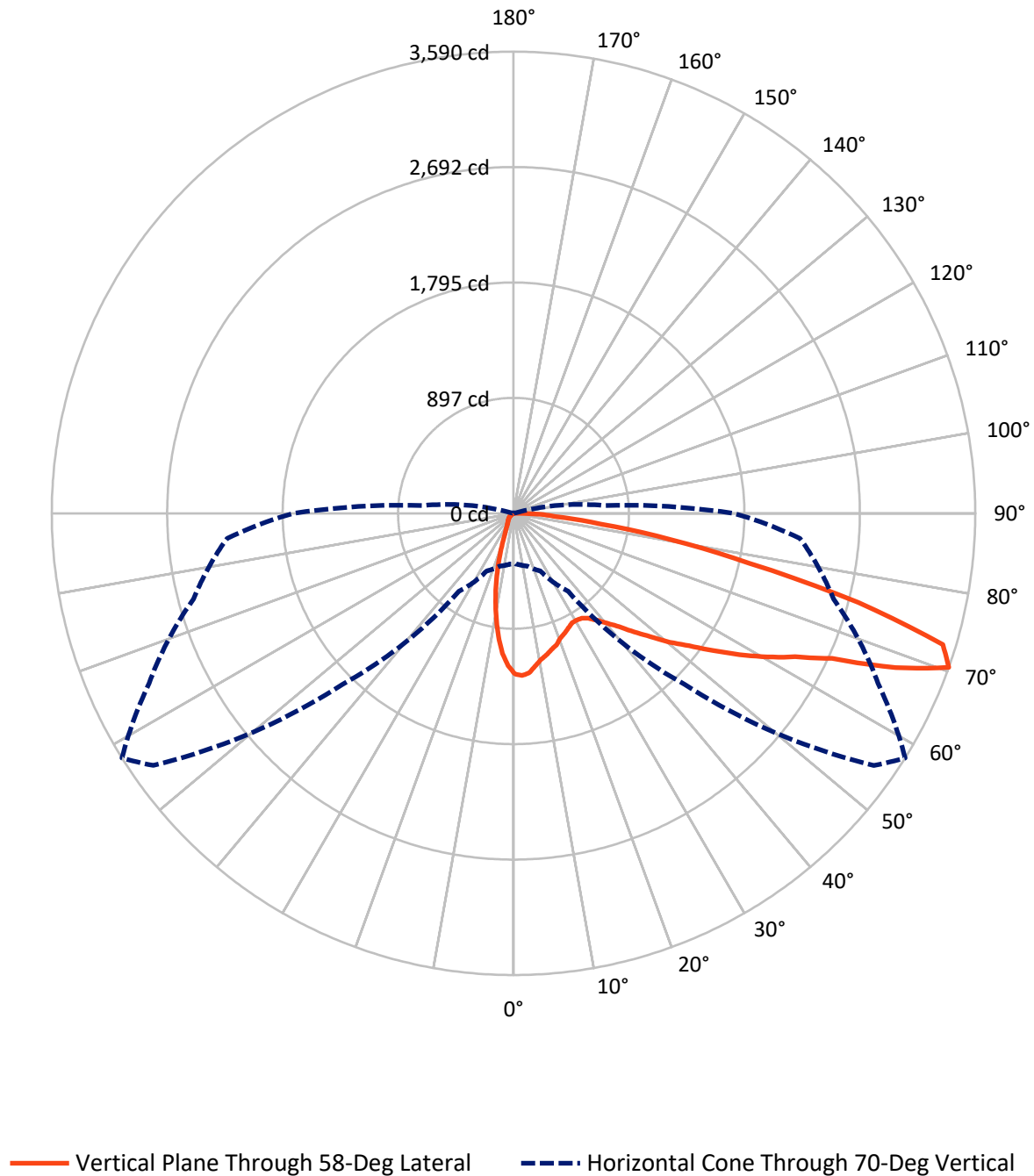
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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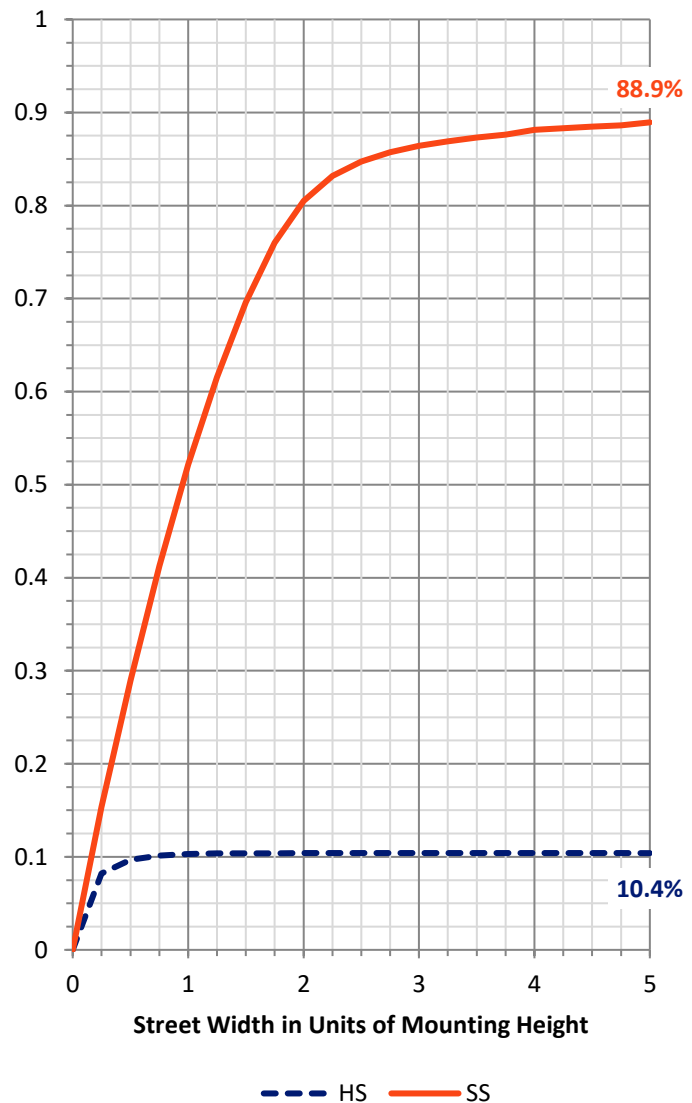
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	421.1	0.0	421.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3600.2	0.0	3600.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	4021.3	0.0	4021.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	2.5
10°-20°	212.1	5.3
20°-30°	283.9	7.1
30°-40°	383.8	9.5
40°-50°	550.9	13.7
50°-60°	811.8	20.2
60°-70°	990.2	24.6
70°-80°	604.7	15.0
80°-90°	82.1	2.0
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°	4021.3	100.0
0°-180°	4021.3	100.0

Coefficient of Utilization



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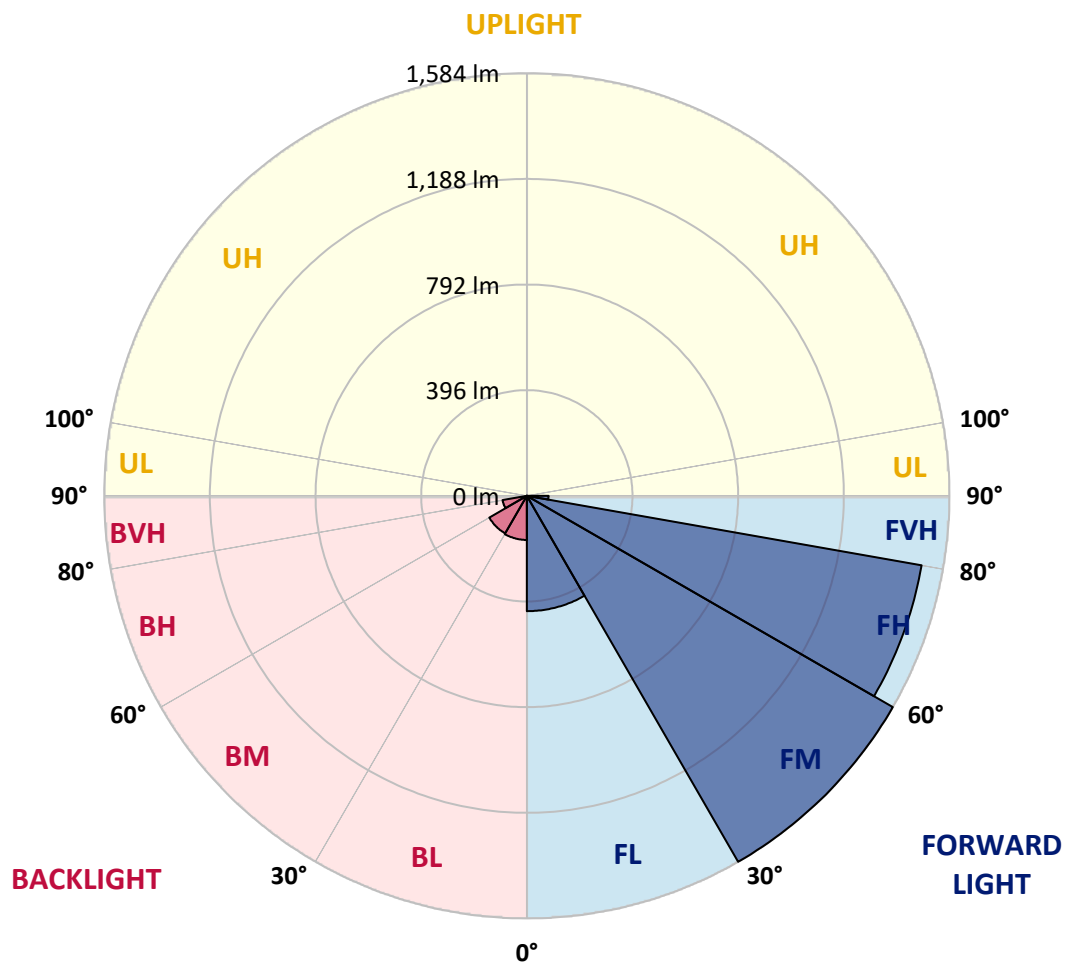
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.4	10.8			
FM	(30°-60°)	1584.0	39.4			
FH	(60°-80°)	1502.6	37.4			G1/1800
FVH	(80°-90°)	81.3	2.0			G1/100
BL	(0°-30°)	165.5	4.1	B1/500		
BM	(30°-60°)	162.5	4.0	B0/220		
BH	(60°-80°)	92.3	2.3	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1271.0	1275.7	1264.4	1277.6	1265.3	1271.0	1264.4	1262.5	1263.4	1264.4	1256.8
5°	1211.6	1222.9	1227.6	1220.1	1238.0	1235.1	1246.5	1247.4	1242.7	1238.0	1238.9
7.5°	1133.3	1144.6	1149.3	1154.1	1172.0	1195.5	1210.6	1201.2	1208.7	1225.7	1200.3
10°	1076.7	1073.9	1073.0	1082.4	1116.3	1136.1	1161.6	1158.8	1177.6	1193.7	1172.9
12.5°	1007.0	1001.3	1018.3	1025.8	1056.0	1090.9	1110.7	1131.4	1150.3	1167.3	1143.7
15°	955.1	959.8	966.4	982.5	1004.1	1050.3	1079.6	1099.4	1133.3	1141.8	1132.4
17.5°	913.6	917.4	926.8	935.3	962.7	1007.0	1053.2	1076.7	1112.6	1135.2	1106.0
20°	914.6	903.3	903.3	911.7	926.8	979.6	1028.7	1036.2	1085.2	1123.9	1104.1
22.5°	915.5	911.7	903.3	902.3	908.9	946.6	996.6	1013.6	1066.4	1111.6	1088.1
25°	928.7	914.6	915.5	902.3	905.1	924.0	963.6	989.1	1049.4	1118.2	1079.6
27.5°	940.0	946.6	933.4	927.8	911.7	910.8	943.8	965.5	1040.9	1133.3	1085.2
30°	965.5	970.2	970.2	966.4	951.3	929.7	937.2	964.5	1023.9	1130.5	1075.8
32.5°	1007.9	999.4	1010.7	1005.1	985.3	951.3	957.9	972.1	1034.3	1166.3	1090.9
35°	1022.1	1028.7	1043.7	1031.5	1024.9	1005.1	991.9	1002.3	1049.4	1202.1	1113.5
37.5°	1065.4	1056.0	1066.4	1093.7	1100.3	1064.5	1039.0	1054.1	1106.0	1244.6	1134.3
40°	1069.2	1076.7	1095.6	1149.3	1155.9	1140.9	1120.1	1123.9	1162.5	1299.3	1186.1
42.5°	1088.1	1096.5	1135.2	1180.5	1216.3	1219.1	1204.0	1204.0	1237.0	1386.9	1243.6
45°	1124.8	1110.7	1160.7	1237.0	1288.9	1299.3	1319.1	1314.3	1340.7	1479.3	1351.1
47.5°	1139.0	1143.7	1198.4	1290.8	1350.2	1398.3	1431.3	1432.2	1445.4	1597.2	1490.7
50°	1185.2	1184.2	1250.2	1336.0	1423.7	1511.4	1575.5	1575.5	1574.6	1712.2	1610.4
52.5°	1246.5	1244.6	1295.5	1397.3	1511.4	1621.7	1706.6	1709.4	1731.1	1853.7	1748.1
55°	1346.4	1337.9	1386.9	1462.4	1599.1	1733.0	1880.1	1881.0	1864.0	1954.5	1847.1
57.5°	1430.3	1429.4	1469.9	1542.5	1697.1	1876.3	2046.9	2072.4	2018.7	2058.3	1926.3
60°	1408.6	1420.9	1504.8	1612.3	1800.9	2055.4	2227.0	2266.6	2180.8	2129.0	1985.7
62.5°	1273.8	1302.1	1393.5	1565.1	1888.5	2315.7	2475.0	2457.1	2265.7	2189.3	2058.3
65°	916.5	944.7	1057.9	1315.3	1786.7	2499.5	2801.2	2720.1	2416.5	2278.9	2155.4
67.5°	539.3	550.6	621.3	839.1	1336.0	2399.6	3197.2	3203.8	2713.5	2416.5	2323.2
70°	389.4	397.9	425.2	495.0	740.1	1881.0	3417.9	3589.5	3125.6	2574.9	2234.6
72.5°	298.9	298.9	345.1	412.0	471.4	1126.7	3145.4	3489.5	3215.1	2423.1	1800.9
75°	215.0	220.6	270.6	354.5	434.7	565.7	2317.5	2769.2	2724.9	1964.0	1257.8
77.5°	123.5	126.3	190.5	297.0	408.3	388.5	1432.2	1877.2	1930.0	1229.5	545.0
80°	63.2	65.1	106.5	234.8	369.6	338.5	854.2	1236.1	1048.5	357.3	126.3
82.5°	31.1	31.1	48.1	149.9	314.0	299.8	502.5	682.6	371.5	82.0	52.8
85°	10.4	11.3	21.7	84.9	227.2	181.0	307.4	324.3	124.5	31.1	29.2
87.5°	2.8	3.8	5.7	31.1	99.0	118.8	182.9	207.4	50.9	12.3	14.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1228.5	1221.9	1214.4	1195.5	1180.5	1160.7	1147.5	1137.1	1117.3	1121.1	1112.6
5°	1216.3	1204.0	1160.7	1119.2	1081.5	1023.9	984.3	958.9	938.1	917.4	932.5
7.5°	1194.6	1165.4	1097.5	1020.2	940.0	864.6	789.2	743.9	710.9	680.7	679.8
10°	1157.8	1110.7	1004.1	903.3	779.7	680.7	584.6	509.1	460.1	424.3	423.3
12.5°	1116.3	1067.3	933.4	769.4	627.0	487.5	372.4	292.3	246.1	217.8	214.0
15°	1089.9	1018.3	844.8	650.6	474.3	317.7	206.5	156.5	138.6	132.0	132.0
17.5°	1056.0	974.0	757.1	527.1	329.1	183.9	133.9	120.7	119.7	117.9	116.0
20°	1041.9	940.0	678.9	420.5	208.4	130.1	115.0	112.2	112.2	110.3	108.4
22.5°	1004.1	891.0	595.9	308.3	138.6	114.1	108.4	104.7	102.8	100.9	102.8
25°	987.2	856.1	517.6	213.1	113.1	101.8	99.0	95.2	92.4	91.5	91.5
27.5°	975.9	821.2	441.3	148.0	99.9	93.3	87.7	84.9	81.1	77.3	77.3
30°	967.4	793.9	367.7	109.4	89.6	83.0	78.3	71.7	66.9	63.2	63.2
32.5°	956.1	761.8	294.2	93.3	81.1	74.5	66.0	60.3	53.7	50.9	50.9
35°	959.8	740.1	231.0	83.0	72.6	64.1	56.6	49.0	42.4	39.6	38.7
37.5°	967.4	724.1	175.4	74.5	65.1	55.6	47.1	38.7	34.9	31.1	31.1
40°	999.4	719.4	129.2	68.8	59.4	49.0	39.6	32.1	28.3	25.5	24.5
42.5°	1053.2	726.0	99.9	62.2	53.7	41.5	33.0	26.4	22.6	19.8	18.9
45°	1122.0	751.5	82.0	58.5	47.1	34.9	26.4	21.7	17.0	15.1	15.1
47.5°	1221.9	791.1	71.7	53.7	41.5	29.2	22.6	17.0	13.2	11.3	11.3
50°	1335.1	836.3	63.2	48.1	35.8	24.5	17.9	13.2	9.4	8.5	8.5
52.5°	1448.2	893.8	58.5	44.3	31.1	19.8	14.1	9.4	6.6	5.7	5.7
55°	1567.0	944.7	52.8	41.5	25.5	16.0	10.4	5.7	3.8	2.8	2.8
57.5°	1650.0	964.5	46.2	35.8	19.8	12.3	7.5	3.8	1.9	0.9	0.9
60°	1709.4	967.4	39.6	29.2	15.1	9.4	4.7	1.9	0.9	0.0	0.0
62.5°	1759.4	973.0	33.9	22.6	11.3	6.6	2.8	0.9	0.0	0.0	0.0
65°	1858.4	968.3	27.3	17.9	7.5	3.8	1.9	0.0	0.0	0.0	0.0
67.5°	1936.6	921.2	21.7	12.3	4.7	1.9	0.9	0.0	0.0	0.0	0.0
70°	1713.2	702.4	17.0	8.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1345.5	468.6	11.3	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	882.5	232.9	8.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	343.2	61.3	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	83.0	20.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	7.5	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.7	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)