

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: P672014

Luminaire Tested: **CCP-SA-1E-830-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672014
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-830-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL
distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5482.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

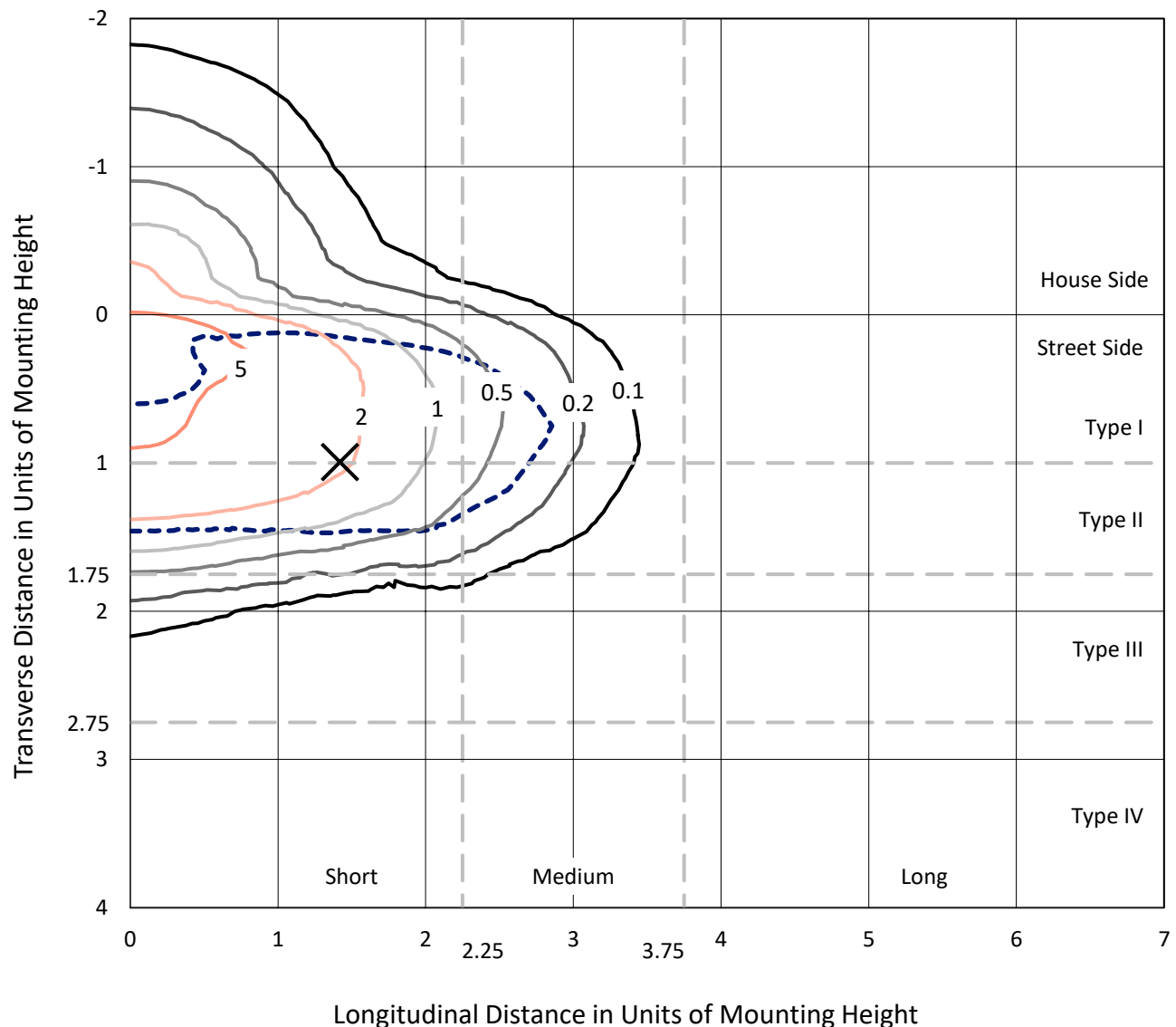
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

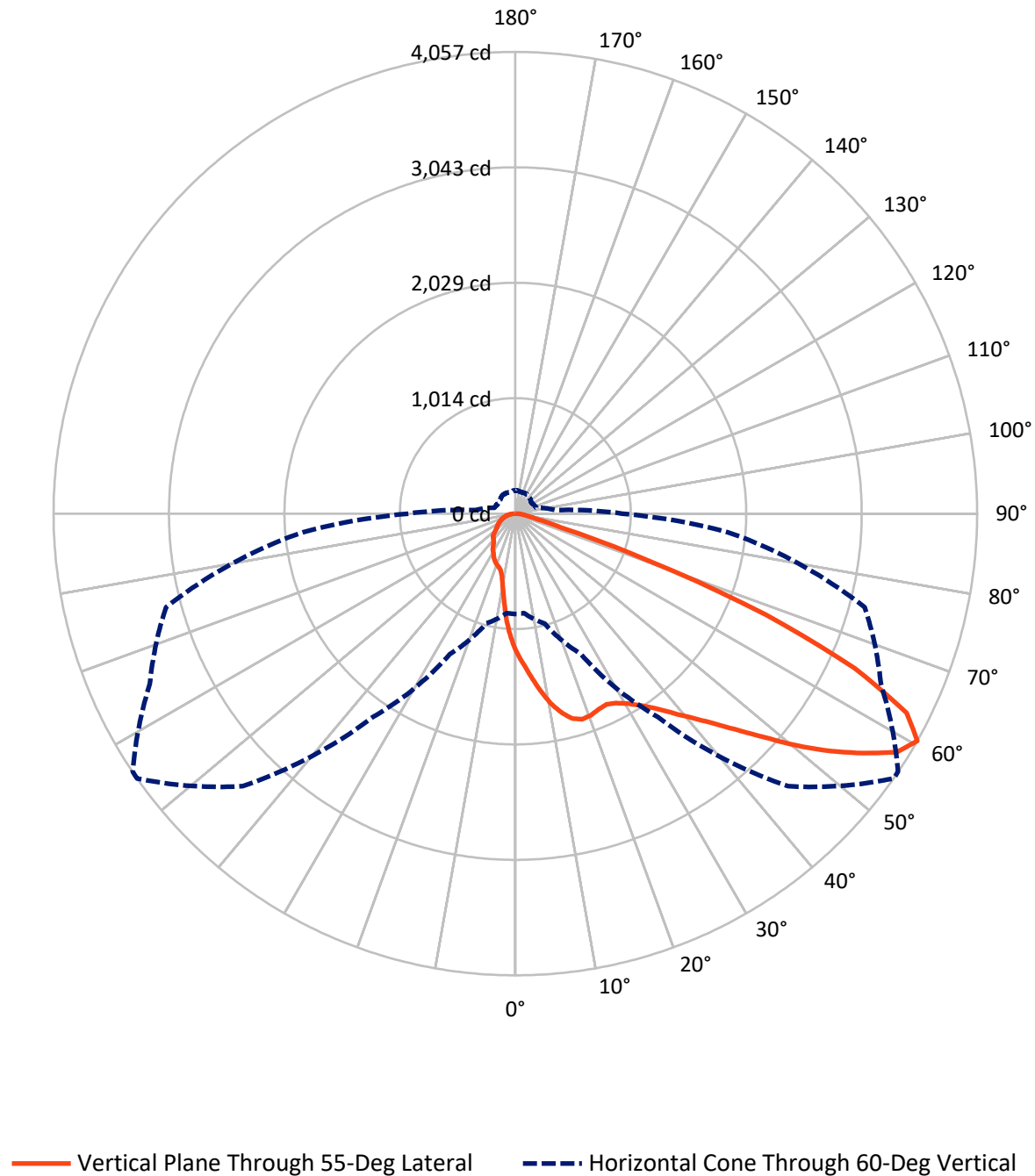
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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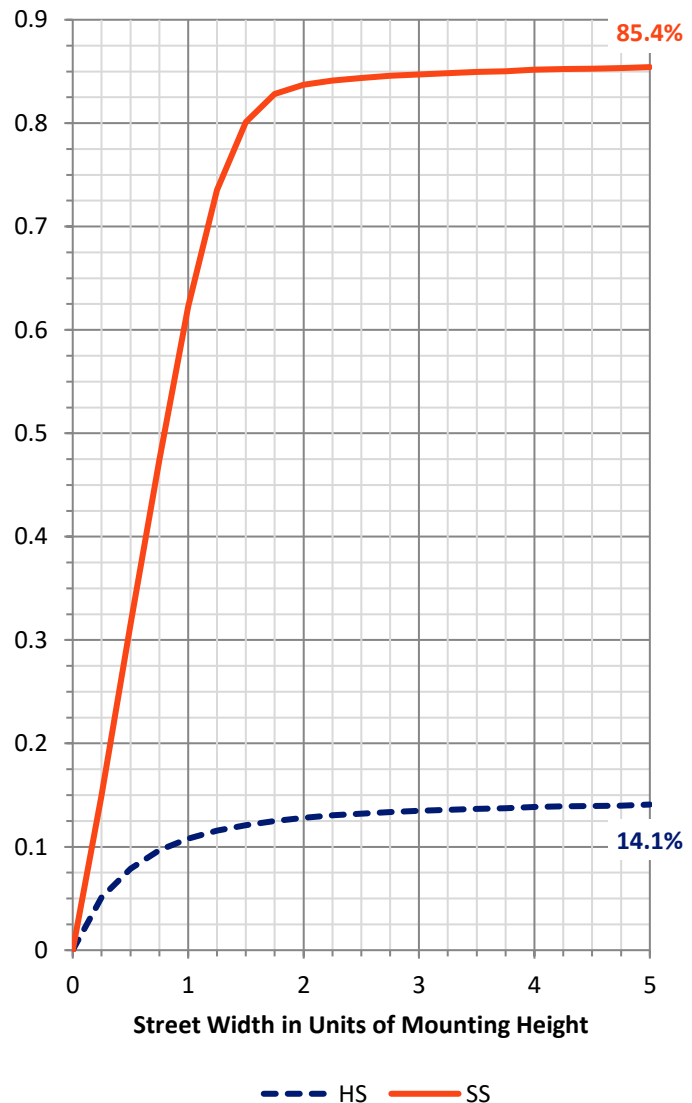
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	788.1	0.0	788.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	4694.3	0.0	4694.3
	% Fixture	85.6	0.0	85.6
Total	Lumens	5482.4	0.0	5482.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	2.1
10°-20°	322.4	5.9
20°-30°	524.9	9.6
30°-40°	784.5	14.3
40°-50°	1153.0	21.0
50°-60°	1351.4	24.6
60°-70°	891.0	16.3
70°-80°	283.7	5.2
80°-90°	57.7	1.1
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°	5482.4	100.0
0°-180°	5482.4	100.0



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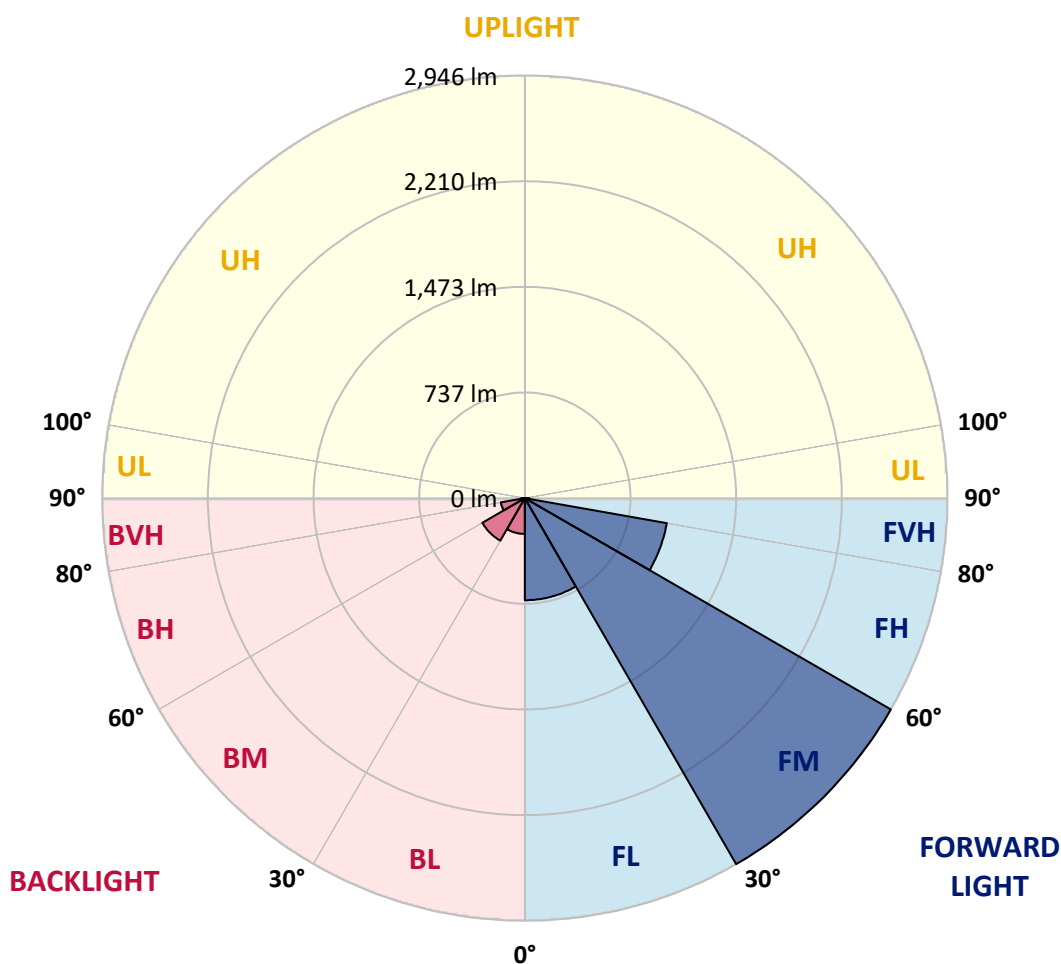
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	711.6	13.0			
FM	(30°-60°)	2946.4	53.7			
FH	(60°-80°)	1004.7	18.3			G1/1800
FVH	(80°-90°)	31.6	0.6			G1/100
BL	(0°-30°)	249.5	4.6	B1/500		
BM	(30°-60°)	342.5	6.2	B1/1000		
BH	(60°-80°)	170.1	3.1	B1/500		G1/500
BVH	(80°-90°)	26.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1414.9	1409.8	1409.8	1396.7	1377.2	1350.2	1318.0	1310.0	1297.7	1266.3	1225.8
5°	1630.7	1625.1	1617.6	1594.5	1558.4	1504.4	1436.4	1424.1	1380.0	1315.2	1242.1
7.5°	1773.4	1770.2	1767.8	1747.9	1712.2	1658.9	1567.9	1554.0	1479.3	1372.0	1257.6
10°	1758.7	1768.2	1784.9	1798.8	1805.9	1778.5	1693.1	1676.8	1584.2	1438.0	1280.6
12.5°	1620.8	1634.3	1665.3	1722.1	1787.7	1840.5	1792.0	1782.9	1696.3	1507.9	1309.7
15°	1518.3	1523.8	1538.9	1581.0	1678.8	1819.8	1868.7	1860.4	1800.8	1597.7	1343.0
17.5°	1486.5	1488.9	1492.4	1506.3	1573.1	1739.2	1900.1	1908.1	1902.1	1691.1	1380.8
20°	1502.4	1504.0	1504.4	1506.7	1538.5	1671.6	1891.8	1905.3	1991.1	1784.5	1418.1
22.5°	1563.6	1561.6	1558.8	1549.6	1567.5	1659.7	1869.5	1891.0	2059.8	1869.5	1452.7
25°	1670.4	1667.7	1648.2	1629.1	1636.7	1702.6	1857.6	1880.6	2113.5	1949.8	1478.1
27.5°	1797.6	1794.8	1774.9	1738.8	1730.8	1774.1	1885.4	1899.7	2152.8	2020.9	1489.3
30°	1929.5	1929.5	1904.9	1863.2	1837.7	1856.0	1936.7	1948.2	2182.6	2089.6	1496.4
32.5°	2073.3	2077.3	2039.2	1991.5	1963.3	1952.6	2008.6	2018.5	2225.9	2170.7	1511.5
35°	2258.1	2249.4	2202.9	2140.1	2094.8	2070.6	2097.6	2109.1	2289.5	2271.6	1535.7
37.5°	2465.9	2450.4	2393.2	2318.1	2239.0	2198.5	2216.4	2219.2	2383.7	2403.1	1579.8
40°	2637.6	2634.8	2586.3	2515.2	2415.5	2361.0	2352.3	2353.9	2514.4	2558.9	1646.6
42.5°	2782.2	2771.9	2763.1	2738.1	2632.4	2543.0	2507.3	2507.6	2656.3	2719.8	1713.8
45°	2846.2	2844.2	2870.0	2934.4	2858.5	2753.2	2702.3	2709.5	2818.8	2885.1	1778.5
47.5°	2818.8	2820.4	2889.5	3058.4	3103.3	3022.6	2932.4	2928.0	2976.1	3011.9	1835.7
50°	2574.0	2599.8	2787.0	3069.9	3263.8	3303.9	3202.2	3185.9	3114.0	3112.8	1870.7
52.5°	2389.2	2388.0	2502.9	2952.7	3320.6	3557.8	3466.4	3429.9	3228.0	3169.6	1873.5
55°	2139.7	2138.1	2223.5	2609.8	3207.8	3735.0	3715.6	3669.9	3332.5	3188.3	1854.4
57.5°	1620.4	1650.6	1735.6	2089.2	2850.2	3706.8	3953.6	3915.4	3434.7	3180.0	1850.8
60°	881.7	878.1	1001.3	1361.7	2182.2	3386.6	4057.3	4055.3	3543.1	3176.8	1872.7
62.5°	406.5	402.5	427.1	606.3	1251.2	2713.1	3857.0	3885.6	3643.7	3147.8	1870.7
65°	304.0	293.6	260.3	282.1	478.8	1619.6	3276.1	3352.4	3488.7	3028.6	1784.1
67.5°	271.0	261.1	222.1	208.2	240.4	571.4	2376.5	2446.9	2917.3	2805.3	1643.8
70°	248.3	239.6	200.7	178.8	180.4	253.1	1244.1	1382.4	2138.1	2341.2	1401.0
72.5°	226.5	218.9	183.6	157.3	151.8	167.3	424.0	511.4	1329.9	1706.2	1044.6
75°	203.4	196.3	165.3	141.1	130.3	124.0	201.9	217.3	703.3	942.1	560.7
77.5°	176.8	172.8	147.4	124.4	115.2	93.8	134.3	141.1	301.2	369.9	267.0
80°	153.8	150.6	131.5	112.8	103.3	72.3	92.6	97.3	148.6	184.8	149.4
82.5°	100.1	108.1	108.9	97.0	91.0	58.0	61.2	64.8	98.5	108.9	65.2
85°	41.3	50.1	75.1	66.8	63.2	49.3	40.5	41.3	60.4	63.6	23.4
87.5°	18.7	20.7	37.0	37.4	32.6	18.7	20.3	22.3	31.0	30.6	10.3
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°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1214.7	1196.4	1163.8	1122.1	1092.3	1070.4	1046.6	1029.1	1009.7	992.6	995.4
5°	1211.9	1176.5	1103.4	1025.9	950.5	888.5	836.8	798.7	759.3	743.8	741.8
7.5°	1214.3	1154.3	1034.3	907.5	792.7	713.6	653.6	617.5	594.8	581.7	582.5
10°	1213.5	1133.2	959.6	784.8	659.2	586.9	550.3	538.4	536.4	538.0	540.4
12.5°	1214.7	1104.6	875.7	674.3	563.4	526.5	528.1	538.8	545.6	549.9	552.7
15°	1219.9	1081.2	789.9	587.3	513.4	514.6	531.6	548.3	558.3	563.0	565.4
17.5°	1227.4	1051.8	713.6	521.3	492.3	510.6	532.8	550.7	558.3	561.1	563.0
20°	1228.2	1018.0	636.5	476.0	478.4	502.2	521.7	536.0	545.6	548.7	550.3
22.5°	1224.6	972.3	557.5	443.0	462.5	486.4	503.0	519.3	506.6	496.3	493.5
25°	1209.5	914.7	489.9	416.0	442.6	464.9	484.0	466.1	460.1	452.2	453.0
27.5°	1176.9	842.8	426.4	390.6	419.2	451.0	437.1	434.7	427.1	419.2	419.2
30°	1134.0	766.9	373.1	364.0	391.0	406.9	410.1	406.5	402.1	391.8	392.6
32.5°	1095.5	686.6	335.4	341.7	373.1	373.1	387.0	387.0	371.1	342.1	342.1
35°	1057.3	611.1	307.5	323.0	343.7	350.5	369.5	344.5	321.9	308.7	307.9
37.5°	1027.5	546.7	289.3	307.1	315.1	332.2	332.6	314.3	306.8	294.8	293.6
40°	1010.1	492.7	278.1	299.2	300.0	315.9	289.7	294.8	293.2	284.1	282.9
42.5°	1000.5	451.0	269.8	292.4	288.5	273.0	268.2	276.9	279.7	275.0	273.0
45°	993.0	418.4	263.0	269.0	279.3	251.1	249.1	255.9	261.9	261.5	259.9
47.5°	989.0	395.8	257.1	254.3	256.3	238.0	234.0	237.2	244.8	249.5	249.1
50°	973.5	378.3	248.3	239.2	226.5	226.5	224.5	224.5	233.6	243.2	244.0
52.5°	946.1	357.6	235.6	224.9	210.2	216.6	217.3	215.8	225.3	235.6	236.4
55°	915.9	342.1	218.5	211.8	196.7	207.4	211.0	209.4	215.8	222.9	222.5
57.5°	916.3	341.7	203.8	198.7	184.0	195.9	204.6	205.0	204.6	209.8	209.8
60°	939.3	349.7	192.3	181.2	169.3	183.6	197.9	197.9	195.1	202.6	203.4
62.5°	946.1	348.9	185.2	164.5	156.2	172.4	187.9	190.3	188.3	199.1	200.3
65°	886.5	330.2	178.0	149.4	144.2	160.1	175.6	182.4	180.4	194.3	195.9
67.5°	803.8	306.0	166.9	135.9	131.9	148.2	162.9	170.1	169.7	187.9	188.7
70°	693.0	276.2	153.0	122.0	120.0	134.3	147.4	155.0	158.5	179.6	179.2
72.5°	536.8	236.8	131.9	107.3	106.9	120.0	131.5	139.9	146.6	166.9	166.9
75°	346.1	186.4	107.7	93.0	91.4	103.7	115.6	125.2	145.8	178.0	177.6
77.5°	211.4	142.2	86.6	77.5	77.1	88.2	100.1	116.4	159.3	158.5	154.2
80°	126.8	102.1	69.1	62.0	62.0	72.3	85.4	124.8	132.3	151.0	142.6
82.5°	66.0	62.8	51.7	45.7	47.7	56.8	77.9	99.7	108.1	91.8	84.2
85°	27.0	33.4	31.8	29.0	30.2	39.3	75.1	79.9	64.0	67.2	67.5
87.5°	9.1	14.7	14.7	11.5	12.7	27.8	44.5	26.6	32.2	19.1	14.3
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)