

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: P181588

Luminaire Tested: **ICS-E02-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181588
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-T4-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.8 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1
Input Voltage (V): NR
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

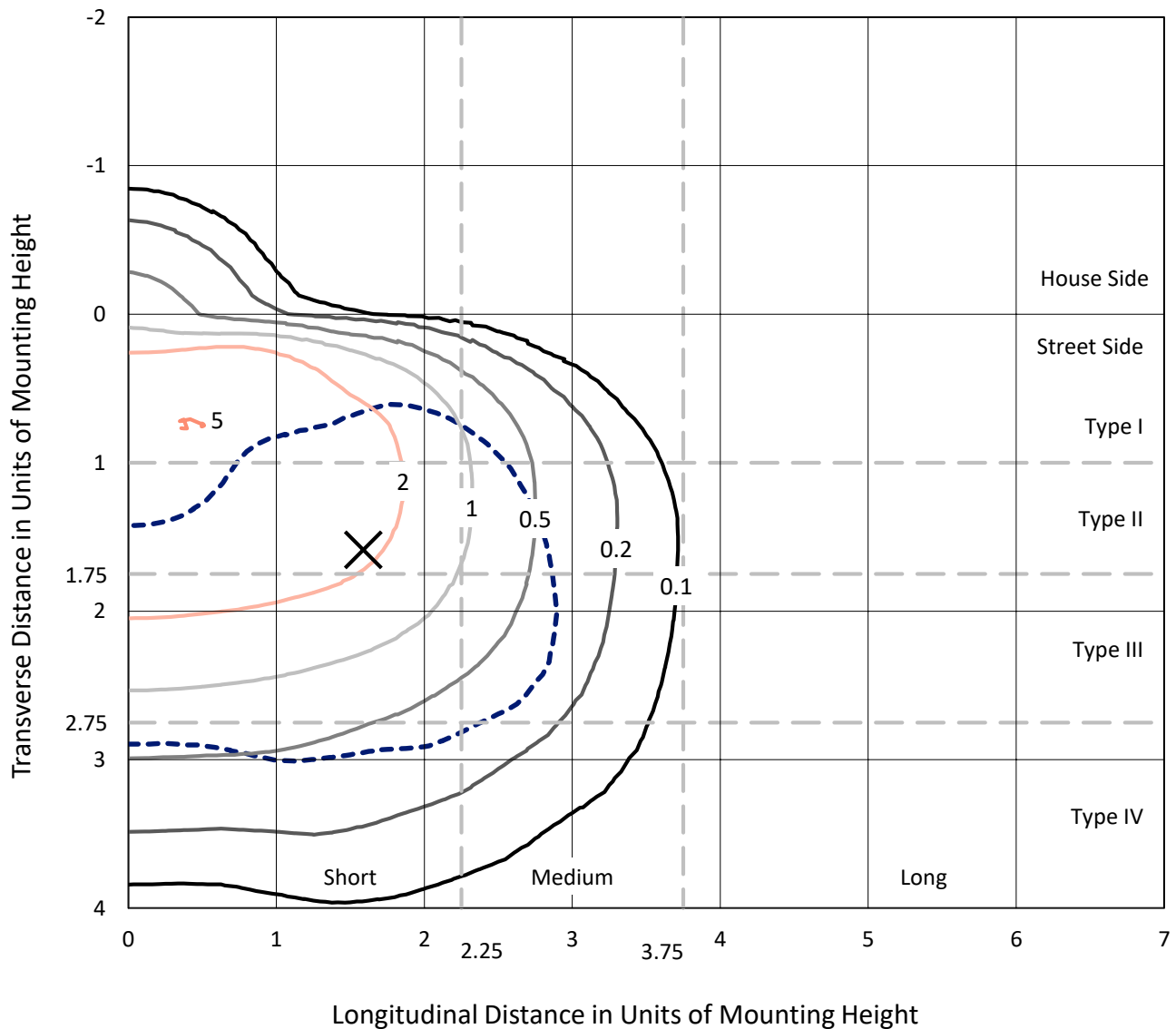


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

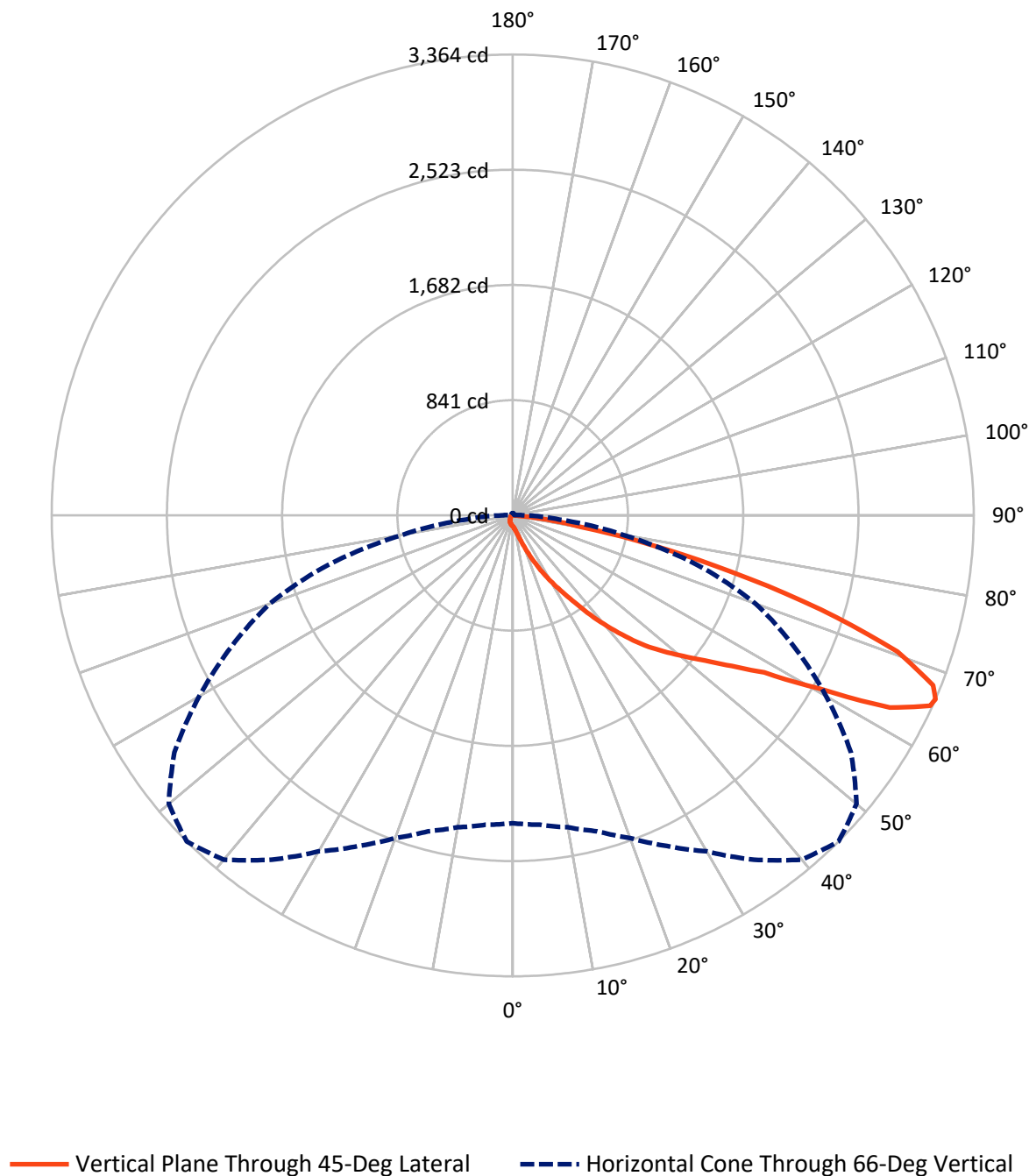


Based on 10 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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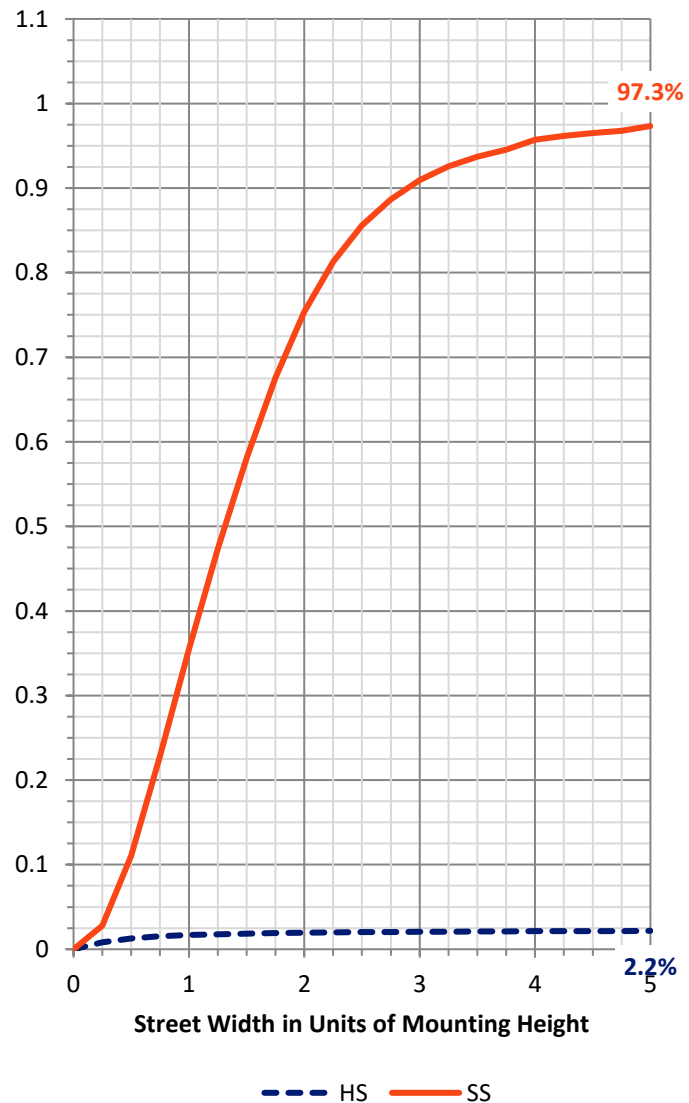
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	72.1	0.0	72.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3107.7	0.0	3107.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	3179.8	0.0	3179.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.3
10°-20°	32.4	1.0
20°-30°	95.0	3.0
30°-40°	221.9	7.0
40°-50°	416.8	13.1
50°-60°	690.7	21.7
60°-70°	1096.6	34.5
70°-80°	567.1	17.8
80°-90°	51.2	1.6
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°	3179.8	100.0
0°-180°	3179.8	100.0

Coefficient of Utilization



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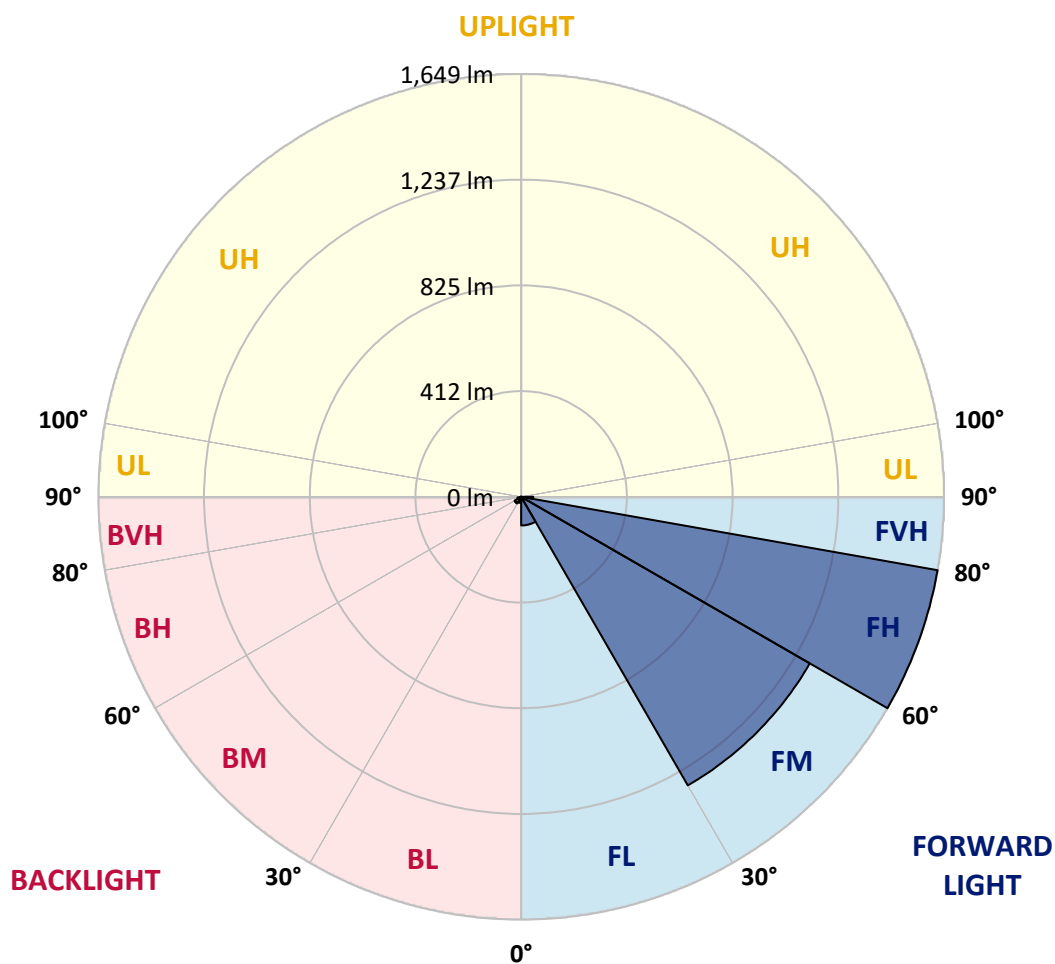
CATALOG NUMBER: ICS-E02-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.9	3.5			
FM	(30°-60°)	1299.6	40.9			
FH	(60°-80°)	1649.1	51.9			G1/1800
FVH	(80°-90°)	47.2	1.5			G1/100
BL	(0°-30°)	23.5	0.7	B0/110		
BM	(30°-60°)	29.9	0.9	B0/220		
BH	(60°-80°)	14.6	0.5	B0/110		G0/110
BVH	(80°-90°)	4.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
2.5°	86.0	86.0	86.0	86.0	85.5	84.9	84.4	83.9	83.3	83.3	82.8
5°	97.6	98.1	97.6	97.0	95.9	95.4	93.7	92.6	91.0	90.4	88.8
7.5°	113.4	112.9	113.4	111.8	109.6	109.1	106.9	104.1	101.9	98.6	96.5
10°	136.5	135.9	136.5	133.2	129.9	127.1	123.3	120.0	115.1	111.3	106.9
12.5°	173.2	173.2	172.1	167.7	163.3	157.3	151.3	144.1	135.4	127.7	120.6
15°	229.6	226.9	222.0	219.2	211.5	202.2	195.7	181.4	168.8	156.7	142.5
17.5°	297.6	292.1	288.3	282.2	272.4	260.3	249.4	228.5	215.9	196.2	175.9
20°	375.4	368.8	367.7	358.4	348.0	334.9	319.0	294.3	272.9	248.3	219.8
22.5°	454.9	456.0	451.6	445.0	434.6	419.3	394.6	372.1	345.8	314.6	277.9
25°	543.7	543.1	539.3	531.6	523.9	504.7	485.0	463.6	432.4	392.4	348.6
27.5°	627.0	626.4	617.1	617.6	602.8	595.7	576.5	553.5	515.7	482.3	434.6
30°	714.1	708.6	702.6	698.2	687.8	675.2	665.3	637.9	609.4	570.0	531.1
32.5°	802.3	796.3	797.9	792.5	784.2	771.6	756.8	734.4	703.7	665.3	629.1
35°	910.3	907.6	903.2	904.8	903.2	893.9	881.2	851.7	818.2	781.5	744.2
37.5°	990.3	987.6	990.3	1001.8	1004.6	1010.6	1001.3	986.5	962.4	922.4	883.4
40°	1064.3	1064.8	1077.4	1091.7	1101.6	1121.3	1124.6	1118.5	1099.4	1062.6	1011.7
42.5°	1130.6	1138.8	1150.3	1173.9	1195.3	1223.2	1244.1	1247.3	1233.1	1209.0	1157.5
45°	1204.6	1211.7	1229.8	1257.8	1287.3	1321.9	1355.3	1372.8	1371.7	1354.8	1299.4
47.5°	1287.3	1296.7	1316.4	1339.4	1378.9	1417.8	1461.1	1492.3	1505.5	1481.9	1428.2
50°	1387.6	1391.5	1408.5	1438.1	1474.2	1519.2	1566.3	1611.8	1637.5	1615.6	1560.3
52.5°	1506.6	1507.7	1523.6	1551.0	1580.0	1629.3	1675.4	1738.4	1771.8	1759.8	1693.4
55°	1669.9	1666.6	1677.6	1701.1	1724.7	1772.4	1818.4	1889.6	1938.4	1939.5	1868.8
57.5°	1892.9	1885.3	1892.4	1911.0	1937.3	1981.7	2039.8	2102.8	2168.0	2163.7	2105.6
60°	2203.7	2200.9	2214.1	2245.3	2290.3	2336.3	2402.1	2487.0	2544.5	2564.3	2503.4
62.5°	2410.3	2418.0	2448.1	2496.3	2582.9	2678.3	2800.5	2930.4	3040.0	3089.3	3005.5
65°	2321.5	2334.1	2381.2	2452.5	2567.0	2710.1	2872.3	3085.5	3274.5	3349.6	3262.5
66°	2246.4	2266.7	2311.1	2386.7	2506.2	2662.4	2831.7	3067.4	3280.0	3364.4	3275.6
67.5°	2116.5	2130.8	2181.2	2265.0	2393.3	2547.8	2730.9	2979.7	3219.7	3309.1	3220.8
70°	1851.8	1857.3	1898.4	1969.7	2068.9	2227.2	2393.3	2632.8	2853.6	2979.1	2882.7
72.5°	1378.3	1386.0	1454.0	1583.8	1712.6	1802.5	1900.6	2092.4	2234.9	2352.2	2333.6
75°	663.1	666.4	711.9	901.5	1152.5	1259.9	1350.9	1499.4	1553.7	1651.8	1637.0
77.5°	420.3	427.5	457.1	503.1	645.6	773.3	845.1	930.0	945.9	1028.7	980.4
80°	115.6	134.3	163.9	241.1	413.8	493.2	525.6	522.3	525.6	500.4	483.9
82.5°	23.6	23.0	28.0	43.3	182.5	287.2	310.2	264.2	262.5	252.6	260.9
85°	6.0	5.5	6.6	13.7	31.2	84.9	106.9	59.7	45.5	43.3	38.4
87.5°	1.6	1.6	1.6	2.7	3.3	4.4	6.0	4.4	3.3	3.3	3.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
2.5°	82.2	82.2	81.7	81.1	81.1	80.6	80.0	79.5	78.9	78.4	77.8
5°	87.1	86.0	84.4	83.3	82.2	80.6	79.5	78.4	77.3	76.7	75.6
7.5°	93.7	91.0	88.8	85.5	83.3	81.1	78.9	77.3	75.6	74.5	73.4
10°	101.9	97.6	93.2	88.8	84.9	81.7	78.4	75.6	74.0	72.3	71.2
12.5°	112.3	105.8	99.7	93.2	87.1	82.2	77.8	74.5	72.3	70.7	69.1
15°	129.3	118.9	108.5	98.6	91.0	83.3	77.3	73.4	70.7	69.1	67.4
17.5°	156.2	137.6	121.1	107.4	94.8	84.9	77.3	72.3	69.1	66.9	65.2
20°	195.1	164.4	138.1	118.4	101.9	87.7	77.3	70.7	67.4	64.7	63.0
22.5°	241.1	202.8	166.6	133.7	110.2	91.5	77.3	69.1	65.2	63.0	60.8
25°	308.5	257.6	208.3	162.2	123.9	97.6	78.9	68.0	63.6	60.8	58.6
27.5°	387.5	326.1	264.7	200.0	144.7	106.3	81.1	66.9	61.9	58.6	56.4
30°	477.3	409.4	334.3	250.5	172.1	117.8	84.9	66.3	59.7	56.4	53.7
32.5°	574.9	503.1	420.9	315.1	212.6	135.4	89.9	65.8	57.5	53.7	50.4
35°	691.1	624.2	523.9	406.1	275.7	165.5	100.8	66.9	55.4	51.0	47.1
37.5°	818.2	747.0	640.7	502.6	338.1	199.5	109.1	65.2	51.5	47.1	43.3
40°	946.5	864.8	756.8	603.9	417.6	241.1	119.5	63.6	47.7	43.3	39.5
42.5°	1071.4	985.4	868.1	708.1	501.5	290.5	132.6	63.6	44.9	39.5	35.6
45°	1202.4	1098.8	970.6	807.8	584.8	346.9	151.3	63.0	41.7	36.2	31.8
47.5°	1326.3	1203.5	1056.1	895.5	674.1	408.8	172.6	63.6	38.9	32.9	29.0
50°	1443.5	1302.7	1143.8	973.9	759.6	475.7	198.9	64.1	36.2	30.1	26.3
52.5°	1571.8	1415.6	1238.0	1054.4	844.0	543.1	229.6	65.2	33.4	27.4	24.1
55°	1730.7	1557.5	1354.2	1153.1	933.3	611.1	259.2	66.3	30.7	25.2	21.9
57.5°	1959.8	1762.5	1542.7	1301.0	1051.7	688.3	289.9	69.1	28.5	23.6	20.3
60°	2332.5	2097.3	1843.6	1558.6	1228.7	793.0	334.3	75.1	25.8	21.4	19.2
62.5°	2780.8	2498.0	2175.2	1829.4	1395.3	863.7	363.9	81.7	23.6	19.7	18.1
65°	3006.5	2650.3	2278.2	1905.0	1416.7	842.9	351.8	79.5	20.8	17.5	15.3
66°	3013.1	2642.1	2264.0	1888.5	1394.8	817.7	340.3	78.4	20.3	17.0	14.2
67.5°	2950.6	2571.4	2188.3	1814.0	1330.1	768.9	319.5	74.5	18.6	15.3	12.6
70°	2642.1	2272.7	1921.4	1575.6	1144.3	647.8	268.0	65.8	16.4	13.7	11.5
72.5°	2106.1	1805.2	1509.3	1239.7	889.5	486.1	211.5	53.7	14.2	12.1	9.9
75°	1470.9	1223.8	998.5	806.2	559.0	291.0	137.0	37.8	12.1	9.9	8.2
77.5°	821.0	651.1	492.1	374.9	223.1	91.0	45.5	19.2	10.4	7.7	6.6
80°	417.6	309.6	235.7	173.7	103.0	47.1	23.0	12.6	8.2	6.0	5.5
82.5°	242.8	178.1	141.9	112.3	70.7	35.6	18.6	9.3	5.5	4.4	4.9
85°	54.3	71.8	60.8	51.5	37.8	22.5	13.2	6.0	3.8	3.8	4.4
87.5°	4.4	6.0	5.5	7.1	7.7	7.1	5.5	3.3	2.7	3.3	3.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
2.5°	77.3	76.7	76.7	76.2	75.6	75.6	75.6	75.1	75.6	75.6	75.6
5°	75.1	74.5	74.0	73.4	72.9	72.3	72.3	71.8	71.8	71.8	72.3
7.5°	72.9	71.8	71.2	70.1	69.6	69.1	69.1	68.5	68.5	68.5	68.5
10°	70.1	69.1	68.0	67.4	66.9	65.8	65.8	65.2	64.7	64.7	64.7
12.5°	68.0	66.9	65.8	64.7	63.6	63.0	62.5	61.9	61.4	61.4	61.4
15°	65.8	64.1	63.0	61.9	60.8	59.7	59.2	58.6	58.1	57.5	57.5
17.5°	63.6	61.9	60.3	59.2	58.1	57.0	56.4	54.8	54.8	54.3	54.3
20°	60.8	59.2	57.5	56.4	55.4	54.3	53.2	52.1	51.0	50.4	50.4
22.5°	58.6	57.0	55.4	53.7	52.1	50.4	49.3	48.2	47.7	47.1	46.6
25°	56.4	54.3	52.1	50.4	48.8	47.1	46.0	44.9	43.8	43.3	43.3
27.5°	53.7	51.5	49.3	47.1	45.5	43.8	42.7	41.1	40.6	40.0	39.5
30°	51.0	48.2	46.0	43.8	42.2	40.0	38.9	37.8	36.7	36.7	36.2
32.5°	47.7	44.9	42.7	40.6	38.4	36.7	35.6	34.5	34.0	32.9	32.9
35°	44.4	41.7	38.9	36.7	35.1	33.4	32.3	31.2	30.1	29.6	29.6
37.5°	40.6	37.8	35.6	33.4	31.8	30.1	29.0	28.0	27.4	26.9	26.3
40°	36.2	33.4	31.8	30.1	28.5	27.4	25.8	24.7	24.1	23.6	23.0
42.5°	32.3	29.6	28.5	27.4	25.8	24.7	23.0	21.9	20.8	20.3	19.7
45°	29.0	26.9	25.8	24.7	23.0	21.4	20.3	19.2	18.1	17.5	17.5
47.5°	25.8	24.1	23.0	21.9	20.3	19.2	17.5	17.0	15.9	15.9	15.9
50°	23.6	21.9	20.8	19.7	18.6	17.0	15.9	15.3	14.8	14.8	15.3
52.5°	21.9	20.3	19.2	18.1	17.0	15.9	14.8	14.2	14.2	14.8	15.3
55°	20.3	18.6	17.5	16.4	15.3	14.8	13.7	13.7	14.2	14.8	15.3
57.5°	19.2	17.0	15.9	15.3	14.2	13.7	13.7	13.7	14.2	14.8	15.9
60°	17.5	15.3	14.2	14.2	13.2	13.2	13.2	13.7	14.2	15.3	15.9
62.5°	15.3	13.7	13.2	13.2	12.6	12.6	13.2	13.7	14.8	15.3	15.9
65°	13.2	12.1	12.1	12.1	12.1	12.6	13.2	13.7	14.2	15.3	15.9
66°	12.1	11.5	11.5	12.1	12.1	12.6	13.2	13.7	14.2	14.8	15.3
67.5°	11.5	11.0	11.0	11.5	12.1	12.1	12.6	13.7	14.2	14.8	14.8
70°	9.9	9.9	9.9	11.0	11.5	12.1	12.6	13.2	13.7	14.2	14.8
72.5°	8.8	8.8	9.3	9.9	11.0	11.5	12.1	12.6	13.7	14.2	14.2
75°	7.7	7.7	8.8	9.3	10.4	11.0	12.1	12.6	13.2	13.7	13.7
77.5°	6.6	7.1	8.2	9.3	9.9	11.0	11.5	12.1	12.6	13.2	13.2
80°	6.0	7.1	8.2	8.8	9.3	9.9	10.4	11.5	12.1	12.6	13.2
82.5°	6.0	6.6	7.7	8.2	8.8	9.9	10.4	11.0	11.5	12.1	12.6
85°	4.9	6.0	6.6	7.7	8.2	9.3	9.9	9.9	10.4	11.0	11.5
87.5°	3.8	4.4	4.4	5.5	6.0	7.1	8.2	8.2	8.8	9.3	9.9
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):

	165°	170°	175°	180°
0°	79.5	79.5	79.5	79.5
2.5°	75.6	76.2	76.2	76.2
5°	72.3	72.3	72.3	72.3
7.5°	68.5	68.5	68.5	68.5
10°	64.7	64.7	65.2	64.7
12.5°	61.4	60.8	60.8	60.8
15°	57.5	57.5	57.0	57.5
17.5°	53.7	53.7	53.2	53.2
20°	49.9	49.9	49.9	49.9
22.5°	46.6	46.0	46.0	46.0
25°	42.7	42.7	42.7	42.7
27.5°	39.5	39.5	39.5	39.5
30°	36.2	36.2	35.6	35.6
32.5°	32.9	32.9	32.9	32.9
35°	29.6	29.6	29.0	29.0
37.5°	25.8	25.8	25.8	25.8
40°	22.5	22.5	22.5	22.5
42.5°	19.7	19.7	19.2	19.2
45°	17.0	17.0	17.0	17.0
47.5°	15.9	15.9	15.9	15.9
50°	15.3	15.9	15.9	15.9
52.5°	15.9	15.9	15.9	15.9
55°	15.9	16.4	16.4	16.4
57.5°	15.9	16.4	16.4	17.0
60°	16.4	17.0	17.0	17.0
62.5°	16.4	17.0	17.0	17.0
65°	15.9	16.4	16.4	16.4
66°	15.9	15.9	15.9	16.4
67.5°	15.3	15.9	15.9	15.9
70°	14.8	15.3	15.3	15.9
72.5°	14.8	15.3	15.3	15.3
75°	14.2	14.2	14.8	14.8
77.5°	13.7	13.7	14.2	14.2
80°	13.2	13.7	13.7	13.7
82.5°	12.6	13.2	13.2	13.2
85°	11.5	12.1	12.1	12.1
87.5°	9.9	9.9	10.4	10.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)