

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: P180797

Luminaire Tested: **ICM-E05-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180797
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-SL4-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8644.2 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

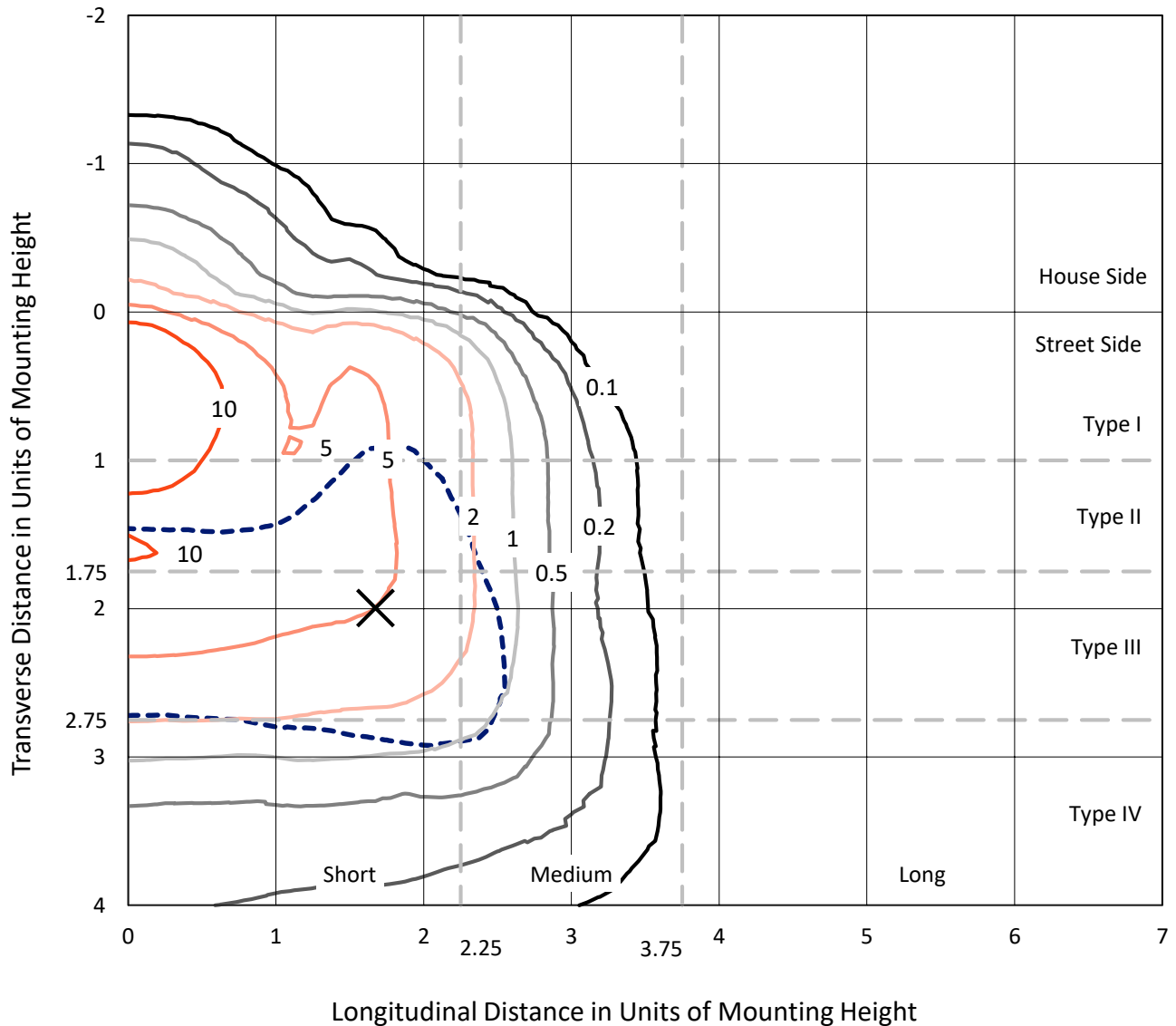
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

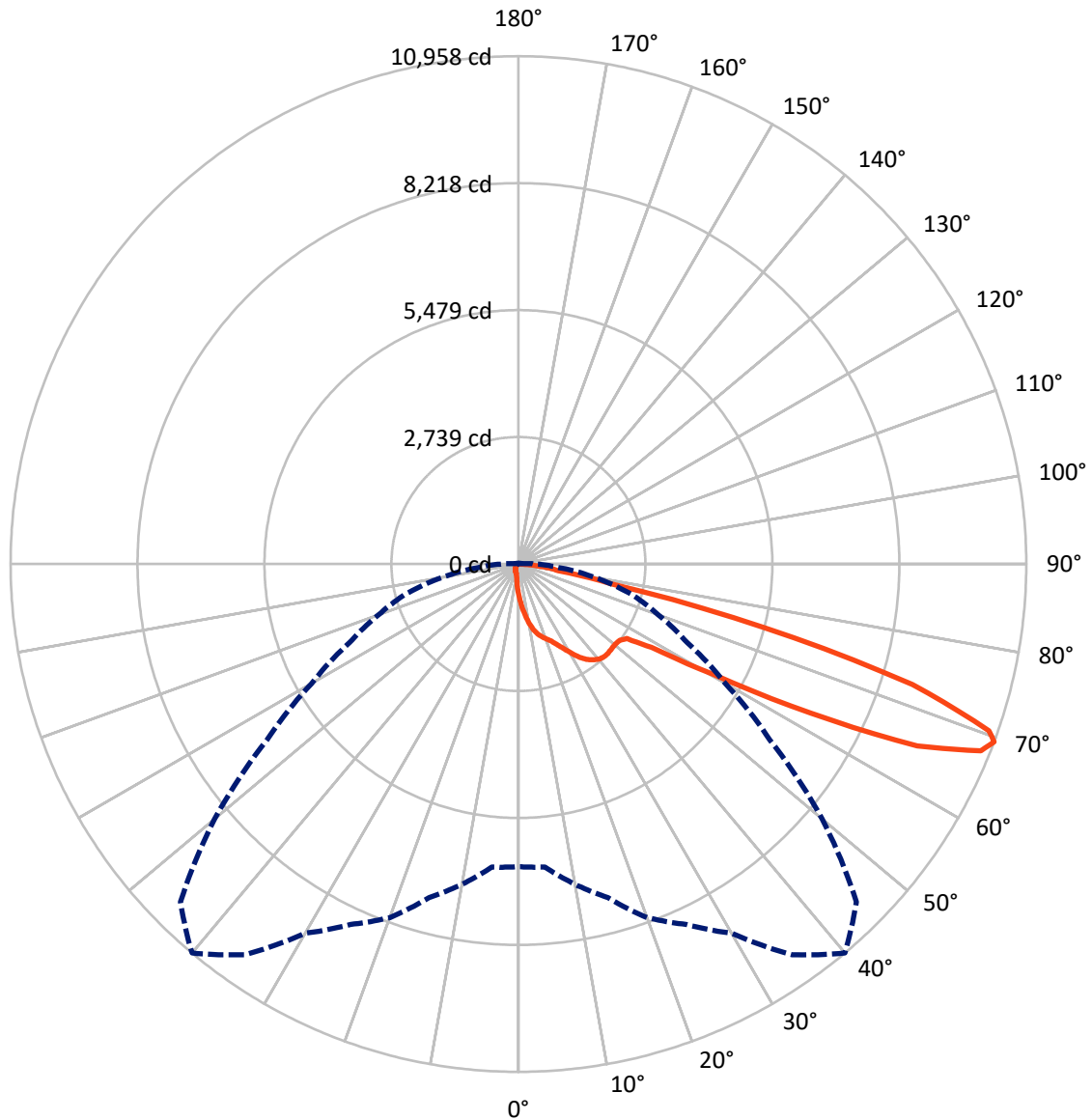
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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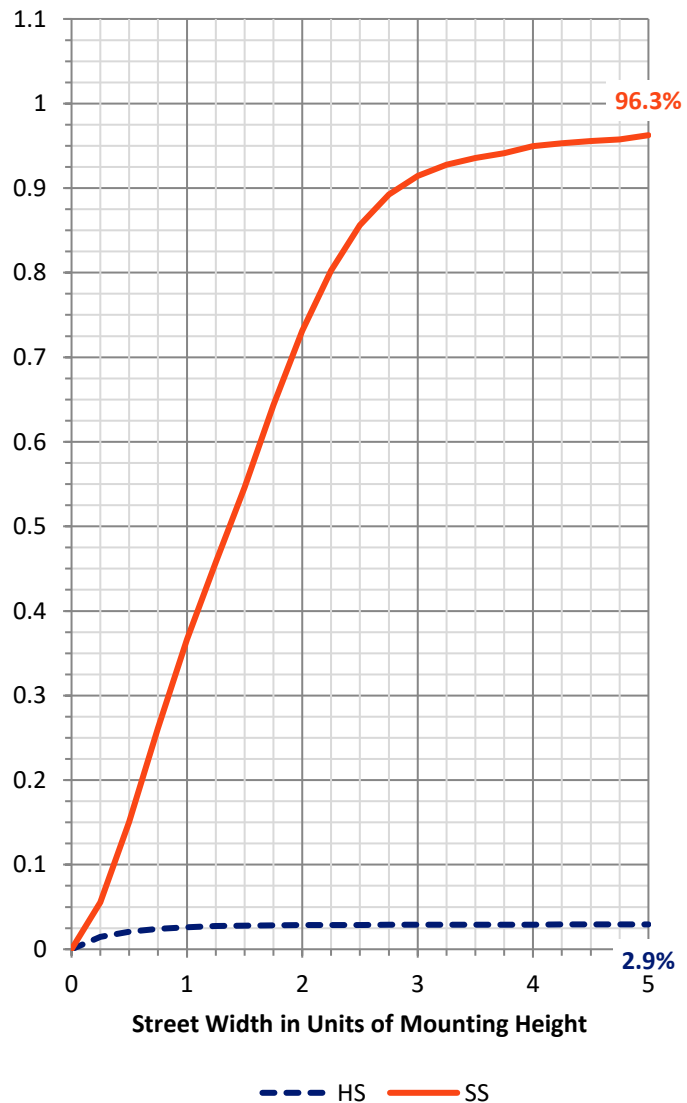
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.4	0.0	257.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	8386.8	0.0	8386.8
	% Fixture	97.0	0.0	97.0
Total	Lumens	8644.2	0.0	8644.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	0.8
10°-20°	231.3	2.7
20°-30°	442.8	5.1
30°-40°	736.3	8.5
40°-50°	996.4	11.5
50°-60°	1558.2	18.0
60°-70°	3203.7	37.1
70°-80°	1289.1	14.9
80°-90°	119.3	1.4
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°	8644.2	100.0
0°-180°	8644.2	100.0



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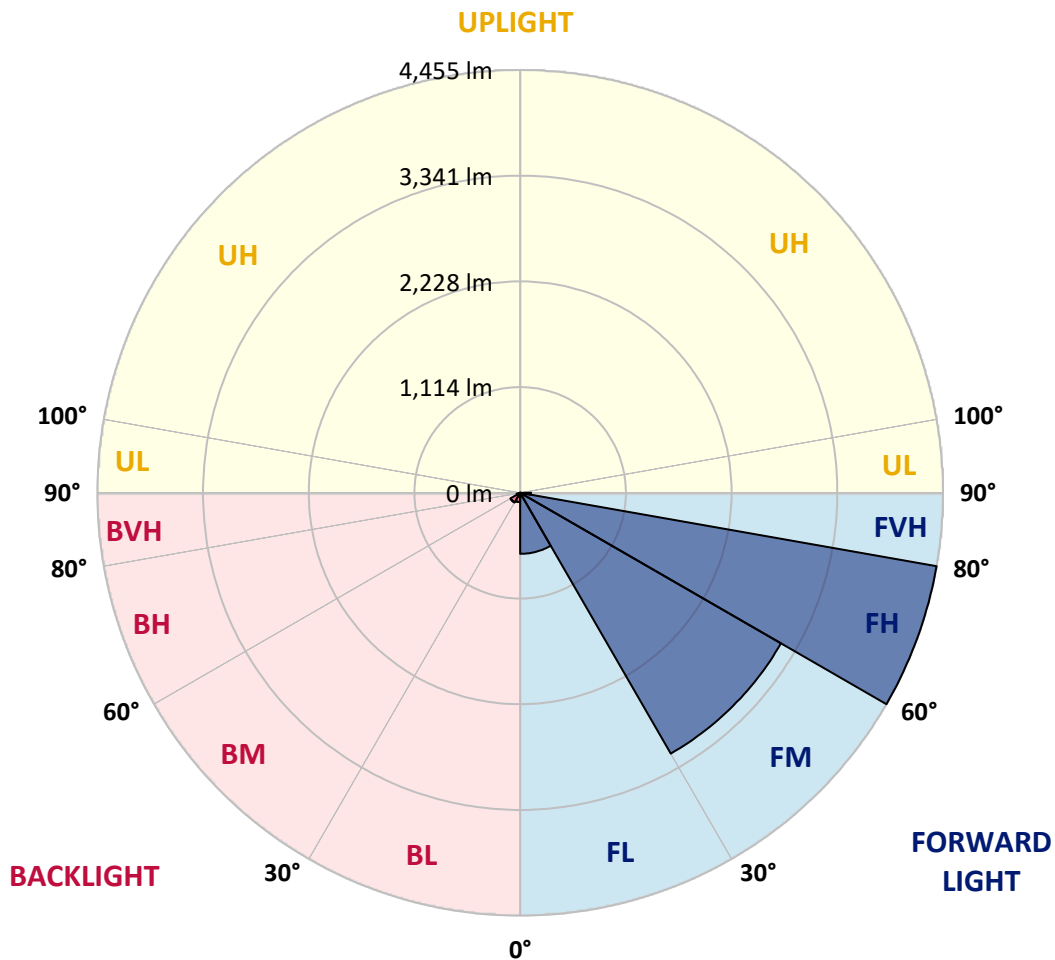
CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.3	7.4			
FM	(30°-60°)	3173.4	36.7			
FH	(60°-80°)	4455.3	51.5			G2/5000
FVH	(80°-90°)	114.8	1.3			G2/225
BL	(0°-30°)	97.9	1.1	B0/110		
BM	(30°-60°)	117.5	1.4	B0/220		
BH	(60°-80°)	37.5	0.4	B0/110		G0/110
BVH	(80°-90°)	4.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	870.9	860.9	849.7	849.7	835.4	835.4	827.0	804.3	801.5	788.7	776.0
5°	1111.6	1103.1	1088.9	1076.2	1064.8	1045.0	1030.9	1004.0	974.2	946.0	920.5
7.5°	1346.7	1342.4	1316.9	1312.7	1294.2	1261.7	1233.4	1193.8	1142.8	1103.1	1056.4
10°	1564.8	1554.8	1549.1	1525.1	1498.1	1462.8	1418.9	1370.7	1311.3	1248.9	1182.4
12.5°	1737.5	1731.8	1706.3	1696.5	1668.1	1632.8	1577.5	1515.2	1455.7	1375.0	1297.1
15°	1866.3	1856.5	1839.5	1823.9	1789.9	1758.7	1707.7	1639.8	1567.5	1479.8	1386.3
17.5°	1974.0	1955.5	1951.4	1927.3	1891.8	1855.0	1798.4	1736.1	1651.1	1563.4	1461.4
20°	2118.4	2092.9	2084.5	2049.0	2008.0	1957.0	1891.8	1814.0	1724.8	1628.5	1523.6
22.5°	2288.4	2270.0	2251.5	2220.4	2168.0	2095.7	2000.8	1915.9	1802.6	1696.5	1583.2
25°	2529.0	2513.5	2483.7	2441.3	2376.1	2289.8	2175.1	2050.4	1917.3	1781.4	1648.3
27.5°	2762.7	2748.6	2727.4	2694.7	2621.1	2526.2	2384.7	2226.1	2057.5	1893.2	1746.0
30°	2982.3	2969.5	2948.2	2915.6	2850.5	2757.0	2597.0	2427.1	2217.5	2026.3	1849.4
32.5°	3218.7	3214.4	3190.3	3143.6	3087.0	2960.9	2786.8	2604.1	2391.7	2170.8	1964.1
35°	3486.3	3453.8	3431.1	3384.4	3288.1	3153.6	2949.6	2750.0	2526.2	2299.6	2068.8
37.5°	3712.9	3681.8	3653.4	3594.0	3476.4	3305.0	3074.3	2854.8	2623.9	2393.1	2158.1
40°	3878.5	3863.0	3829.0	3751.1	3619.5	3415.6	3166.3	2927.0	2694.7	2462.5	2230.2
42.5°	4001.8	3977.7	3939.5	3858.7	3703.0	3470.7	3203.1	2956.8	2727.4	2505.0	2277.0
45°	4047.1	4027.3	3991.8	3904.0	3735.6	3486.3	3201.7	2948.2	2728.8	2517.8	2308.2
47.5°	4020.2	4000.4	3969.2	3887.1	3721.4	3467.9	3176.2	2924.1	2714.6	2522.0	2336.5
50°	3931.0	3919.7	3895.6	3826.2	3677.5	3432.5	3153.6	2911.4	2711.7	2543.3	2376.1
52.5°	3922.4	3915.4	3885.7	3816.3	3664.8	3421.2	3150.7	2918.5	2735.8	2570.2	2404.5
55°	4793.3	4692.8	4467.7	4276.5	3962.2	3588.3	3293.8	3033.2	2837.8	2676.4	2560.2
57.5°	6812.6	6662.6	6366.6	6002.6	5280.5	4571.0	4003.2	3592.5	3390.1	3316.4	3360.3
60°	7758.6	7731.7	7685.0	7512.1	7142.6	6532.2	5852.6	5117.6	4823.1	4797.6	4886.8
62.5°	8207.5	8190.5	8204.6	8183.4	8068.7	7890.3	7694.8	7377.6	7085.9	6897.6	6498.3
65°	8414.2	8425.5	8506.3	8570.0	8584.1	8630.8	8773.9	9169.0	9457.8	8972.1	7863.4
67.5°	7888.9	7955.4	8140.9	8373.2	8645.0	8908.4	9333.3	10165.8	10759.2	10188.5	8613.9
69°	6530.8	6563.4	7016.6	7454.1	8118.3	8582.8	9198.7	10290.5	10957.5	10313.2	8554.4
70°	5141.7	5171.5	5657.2	6251.9	7374.8	7972.4	8778.1	10079.5	10772.0	10147.4	8248.5
72.5°	2319.5	2277.0	2448.4	2767.0	3987.7	4936.4	6345.3	8166.4	8887.1	8129.5	6171.2
75°	1620.0	1601.6	1620.0	1621.4	1811.2	2336.5	2948.2	4426.6	5474.5	4723.9	2948.2
77.5°	1254.6	1241.9	1229.1	1215.0	1237.6	1386.3	1445.8	1570.4	2039.1	1928.7	1124.4
80°	992.7	981.3	1012.5	1002.6	1002.6	1019.5	1008.2	961.5	873.7	810.0	725.0
82.5°	461.7	464.5	464.5	504.1	607.4	709.4	742.1	695.3	617.4	525.4	423.4
85°	43.9	49.6	83.5	128.8	256.3	288.8	290.3	240.7	240.7	189.8	152.9
87.5°	0.0	1.4	1.4	1.4	12.7	35.4	29.8	8.5	4.3	4.3	7.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	753.3	749.1	732.1	715.1	699.5	682.5	667.0	651.4	634.4	621.7	606.1
5°	880.7	849.7	814.2	780.3	746.2	710.9	674.1	641.5	607.4	576.4	546.6
7.5°	1009.7	948.7	900.7	839.7	784.5	729.3	678.3	625.9	577.8	532.5	490.0
10°	1118.7	1045.0	970.0	892.1	812.8	739.2	668.4	606.1	542.3	487.2	434.7
12.5°	1207.9	1114.4	1022.4	924.7	835.4	742.1	654.2	579.2	504.1	441.8	388.0
15°	1288.6	1181.0	1070.5	957.2	844.0	737.8	640.1	546.6	470.1	399.4	338.4
17.5°	1353.8	1230.5	1106.0	978.5	856.7	732.1	621.7	523.9	434.7	361.1	301.6
20°	1410.4	1281.5	1147.0	1004.0	865.2	730.7	606.1	495.6	403.5	325.7	267.6
22.5°	1462.8	1334.0	1189.5	1036.6	878.0	729.3	591.9	474.4	376.7	298.8	240.7
25°	1522.2	1386.3	1234.8	1070.5	900.7	734.9	583.4	457.4	352.6	273.3	219.4
27.5°	1588.8	1445.8	1288.6	1113.0	930.3	746.2	580.6	439.0	331.4	249.2	202.5
30°	1682.2	1516.6	1342.4	1155.5	957.2	759.0	577.8	427.6	310.1	230.8	185.5
32.5°	1764.4	1586.0	1401.9	1199.4	987.0	771.7	576.4	412.1	290.3	212.4	172.7
35°	1850.8	1649.7	1452.8	1241.9	1012.5	785.9	574.9	400.7	271.9	194.0	160.0
37.5°	1925.9	1703.5	1492.6	1278.7	1040.8	798.6	576.4	390.8	254.9	178.4	148.7
40°	1989.6	1758.7	1536.4	1312.7	1070.5	818.5	577.8	380.9	237.9	164.3	138.8
42.5°	2046.2	1811.2	1583.2	1350.9	1104.6	841.1	586.2	372.5	223.7	151.5	128.8
45°	2090.1	1859.3	1634.1	1404.8	1159.7	878.0	601.9	366.8	209.6	140.2	120.4
47.5°	2135.5	1930.1	1720.5	1489.7	1240.5	936.0	628.7	365.3	198.2	131.7	113.3
50°	2197.7	2000.8	1796.9	1576.1	1314.1	995.4	661.3	366.8	184.1	123.2	106.2
52.5°	2243.0	2073.1	1896.1	1726.2	1489.7	1176.8	787.4	392.3	177.0	116.1	97.7
55°	2510.7	2480.9	2485.1	2513.5	2330.8	2002.3	1316.9	566.4	208.2	131.7	96.3
57.5°	3540.1	3645.0	3705.8	3704.4	3402.8	2822.2	1768.7	727.8	232.2	152.9	114.7
60°	4893.9	4814.6	4702.7	4426.6	4025.9	3221.5	1978.2	783.1	201.1	121.8	104.7
62.5°	6090.5	5626.0	5213.9	4766.4	4241.0	3360.3	2020.8	778.8	175.6	92.0	73.7
65°	6836.7	6001.2	5335.7	4774.9	4156.1	3244.2	1911.6	715.1	148.7	75.1	60.9
67.5°	7015.1	5798.7	4857.1	4142.0	3472.2	2524.9	1403.4	538.1	116.1	62.3	53.8
69°	6625.7	5154.5	4024.4	3213.0	2526.2	1675.2	868.0	339.8	89.2	56.7	49.6
70°	6094.7	4483.2	3278.2	2578.6	1870.6	1176.8	607.4	239.4	72.2	52.4	45.3
72.5°	3921.0	2354.9	1611.5	1121.5	771.7	468.7	237.9	107.6	55.3	43.9	36.8
75°	1520.8	870.9	631.5	480.0	375.3	260.6	144.5	69.4	46.7	36.8	28.3
77.5°	749.1	573.5	468.7	321.5	186.9	116.1	77.9	53.8	38.2	26.9	18.4
80°	591.9	393.7	235.1	145.9	110.4	83.5	59.4	43.9	28.3	17.0	12.7
82.5°	303.1	165.7	121.8	99.2	82.1	65.1	48.2	31.2	18.4	11.3	10.0
85°	94.9	69.4	62.3	60.9	56.7	46.7	34.0	19.8	11.3	7.1	7.1
87.5°	7.1	10.0	12.7	10.0	11.3	10.0	12.7	8.5	5.7	5.7	4.3
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°	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8	652.8
2.5°	594.7	577.8	562.1	552.3	533.9	526.8	519.7	516.8	504.1	507.0	495.6
5°	519.7	490.0	467.3	444.7	423.4	407.8	395.1	379.5	366.8	361.1	349.8
7.5°	451.7	413.5	383.7	359.7	334.2	314.3	297.4	286.0	274.7	263.4	257.7
10°	392.3	351.2	317.2	293.1	269.0	252.1	239.4	230.8	223.7	219.4	218.0
12.5°	337.0	297.4	266.2	244.9	226.6	218.0	212.4	208.2	206.7	205.3	205.3
15°	294.5	254.9	230.8	215.3	206.7	202.5	201.1	198.2	195.4	194.0	194.0
17.5°	254.9	225.1	208.2	199.6	195.4	192.6	189.8	186.9	184.1	182.7	182.7
20°	228.0	203.9	195.4	189.8	185.5	182.7	178.4	175.6	174.1	172.7	171.3
22.5°	206.7	191.2	185.5	181.2	175.6	171.3	168.5	165.7	162.9	161.4	160.0
25°	191.2	181.2	177.0	171.3	165.7	161.4	157.2	152.9	150.1	148.7	145.9
27.5°	179.8	172.7	167.1	160.0	154.3	150.1	145.9	141.6	138.8	135.9	134.5
30°	170.0	162.9	155.7	150.1	143.0	138.8	133.1	128.8	127.4	124.7	121.8
32.5°	160.0	152.9	145.9	138.8	131.7	126.0	123.2	117.5	114.7	113.3	110.4
35°	148.7	141.6	133.1	127.4	120.4	114.7	110.4	106.2	103.3	100.6	99.2
37.5°	138.8	130.2	121.8	114.7	109.0	103.3	99.2	94.9	92.0	89.2	87.8
40°	127.4	119.0	110.4	103.3	97.7	93.5	89.2	84.9	82.1	80.7	80.7
42.5°	117.5	107.6	99.2	93.5	89.2	83.5	79.3	75.1	73.7	72.2	73.7
45°	107.6	97.7	90.6	84.9	80.7	75.1	70.8	68.0	66.5	68.0	69.4
47.5°	99.2	89.2	82.1	77.9	73.7	69.4	65.1	62.3	62.3	65.1	68.0
50°	90.6	80.7	75.1	72.2	68.0	63.7	58.0	56.7	58.0	60.9	63.7
52.5°	82.1	70.8	66.5	65.1	60.9	56.7	52.4	51.0	52.4	55.3	53.8
55°	73.7	62.3	60.9	59.4	55.3	49.6	45.3	45.3	45.3	43.9	41.0
57.5°	70.8	55.3	53.8	52.4	48.2	42.5	39.6	36.8	35.4	31.2	29.8
60°	73.7	49.6	49.6	46.7	42.5	36.8	32.6	28.3	25.5	22.7	22.7
62.5°	59.4	45.3	43.9	41.0	35.4	29.8	25.5	21.2	19.8	18.4	18.4
65°	48.2	41.0	38.2	34.0	29.8	24.1	19.8	17.0	15.5	15.5	17.0
67.5°	43.9	36.8	32.6	28.3	24.1	18.4	15.5	14.1	14.1	15.5	15.5
69°	41.0	34.0	29.8	25.5	21.2	17.0	14.1	14.1	14.1	14.1	15.5
70°	38.2	32.6	28.3	24.1	18.4	14.1	12.7	12.7	14.1	14.1	15.5
72.5°	29.8	25.5	24.1	19.8	14.1	12.7	11.3	12.7	12.7	14.1	14.1
75°	22.7	18.4	18.4	15.5	11.3	10.0	10.0	11.3	11.3	12.7	12.7
77.5°	15.5	12.7	12.7	11.3	10.0	8.5	8.5	10.0	11.3	11.3	12.7
80°	11.3	10.0	8.5	10.0	8.5	7.1	8.5	10.0	10.0	11.3	11.3
82.5°	8.5	8.5	8.5	8.5	7.1	7.1	8.5	8.5	10.0	11.3	11.3
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	10.0	10.0
87.5°	4.3	4.3	4.3	5.7	5.7	7.1	7.1	7.1	7.1	8.5	8.5
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):

	165°	170°	175°	180°
0°	652.8	652.8	652.8	652.8
2.5°	492.7	491.4	485.7	487.2
5°	345.5	337.0	342.7	341.3
7.5°	253.5	252.1	250.6	253.5
10°	216.7	216.7	215.3	216.7
12.5°	203.9	203.9	203.9	203.9
15°	194.0	194.0	192.6	192.6
17.5°	182.7	182.7	182.7	181.2
20°	171.3	170.0	170.0	170.0
22.5°	158.6	157.2	157.2	157.2
25°	145.9	144.5	144.5	144.5
27.5°	133.1	131.7	130.2	130.2
30°	120.4	119.0	117.5	117.5
32.5°	107.6	106.2	104.7	104.7
35°	96.3	96.3	94.9	93.5
37.5°	86.4	86.4	86.4	86.4
40°	79.3	80.7	80.7	80.7
42.5°	75.1	76.5	77.9	79.3
45°	72.2	75.1	76.5	76.5
47.5°	70.8	72.2	73.7	73.7
50°	65.1	63.7	63.7	63.7
52.5°	52.4	49.6	48.2	46.7
55°	38.2	36.8	34.0	34.0
57.5°	26.9	26.9	25.5	25.5
60°	21.2	21.2	19.8	21.2
62.5°	18.4	18.4	18.4	18.4
65°	17.0	17.0	17.0	17.0
67.5°	17.0	17.0	17.0	17.0
69°	15.5	15.5	15.5	15.5
70°	15.5	15.5	15.5	15.5
72.5°	14.1	14.1	14.1	14.1
75°	12.7	14.1	14.1	14.1
77.5°	12.7	12.7	12.7	12.7
80°	11.3	11.3	12.7	12.7
82.5°	11.3	11.3	11.3	11.3
85°	10.0	10.0	11.3	11.3
87.5°	8.5	8.5	10.0	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)