

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: P140743

Luminaire Tested: **ECM-F01-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140743
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F01-LED-E1-RW-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2060.5 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

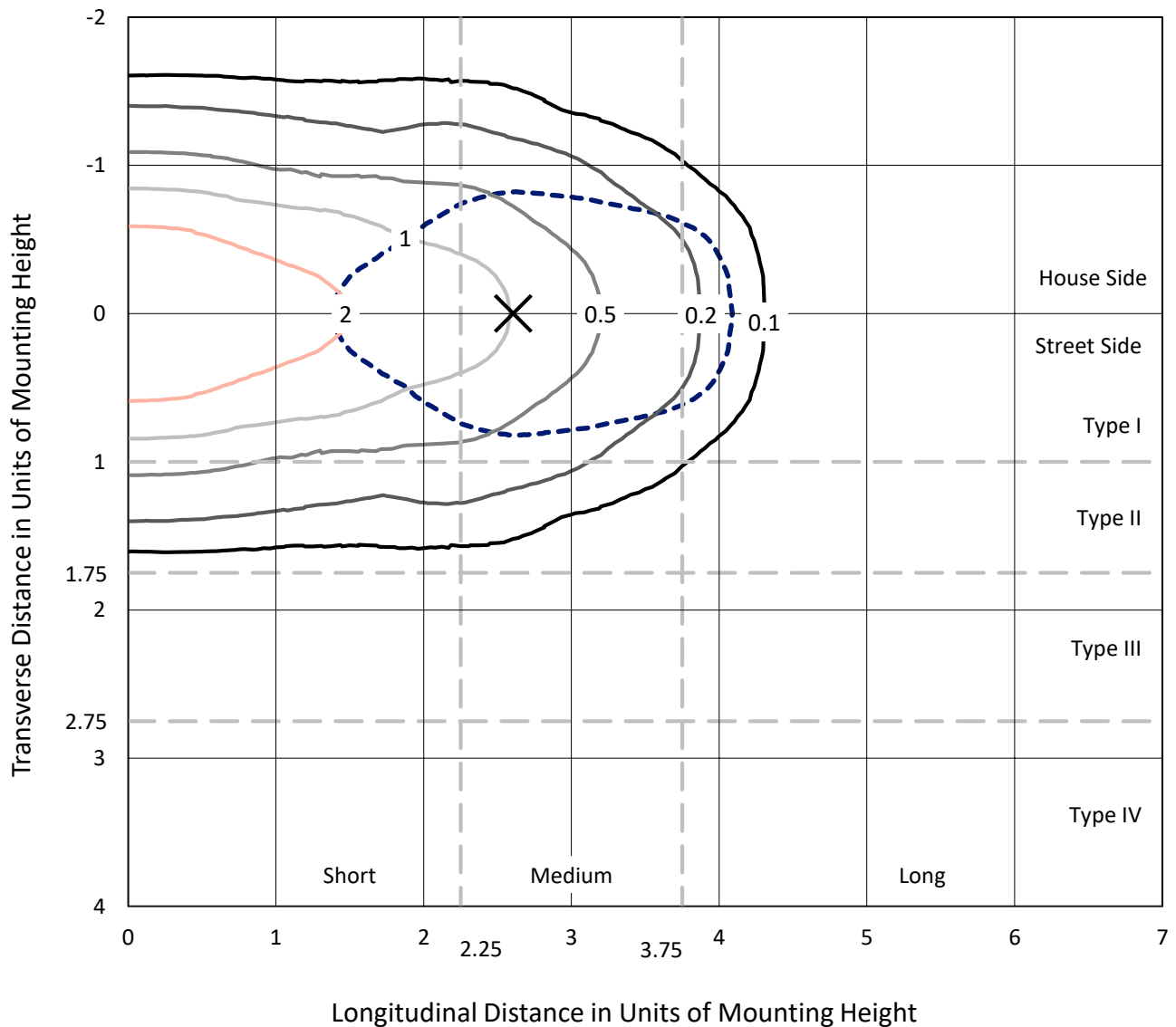
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

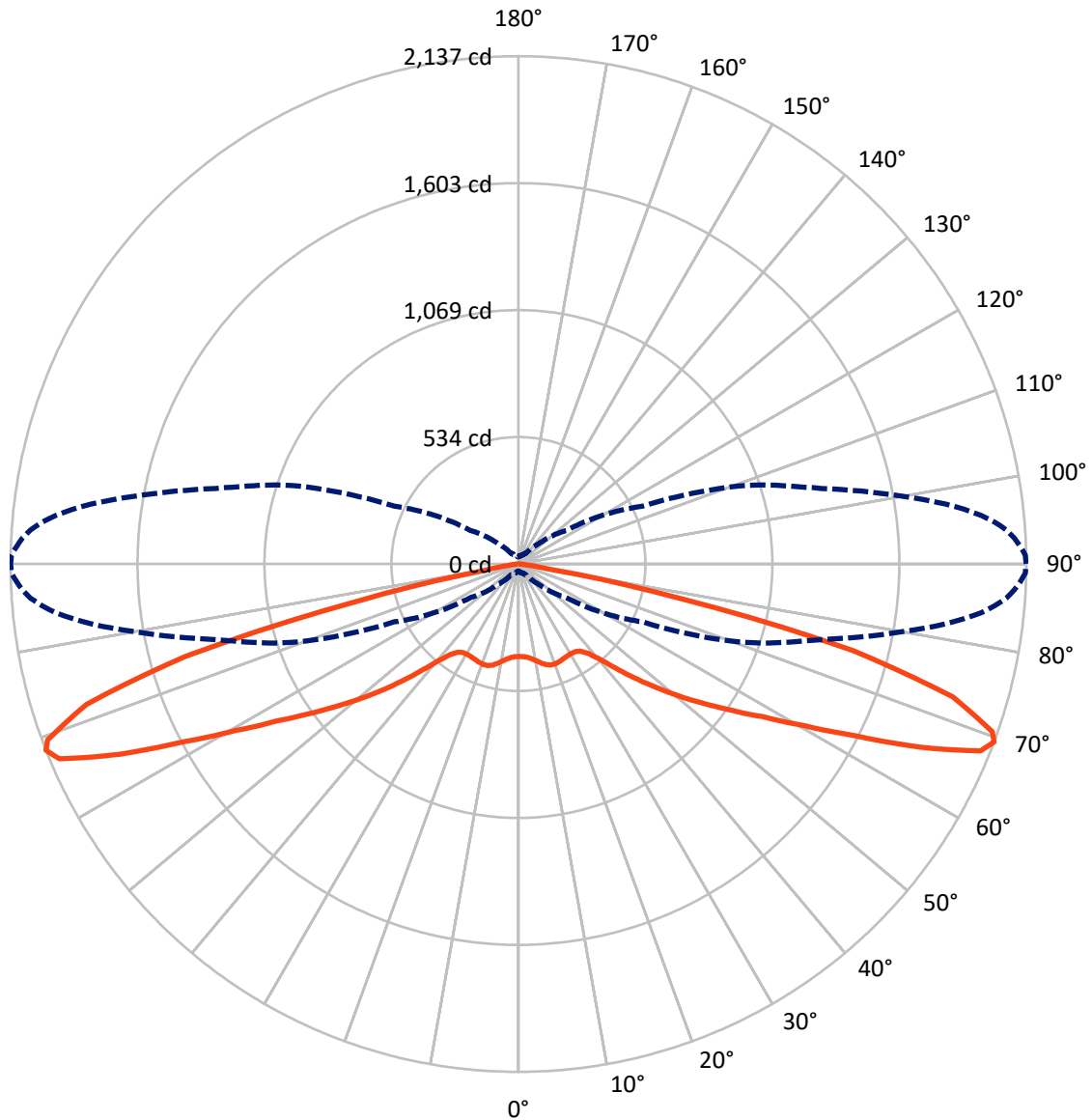
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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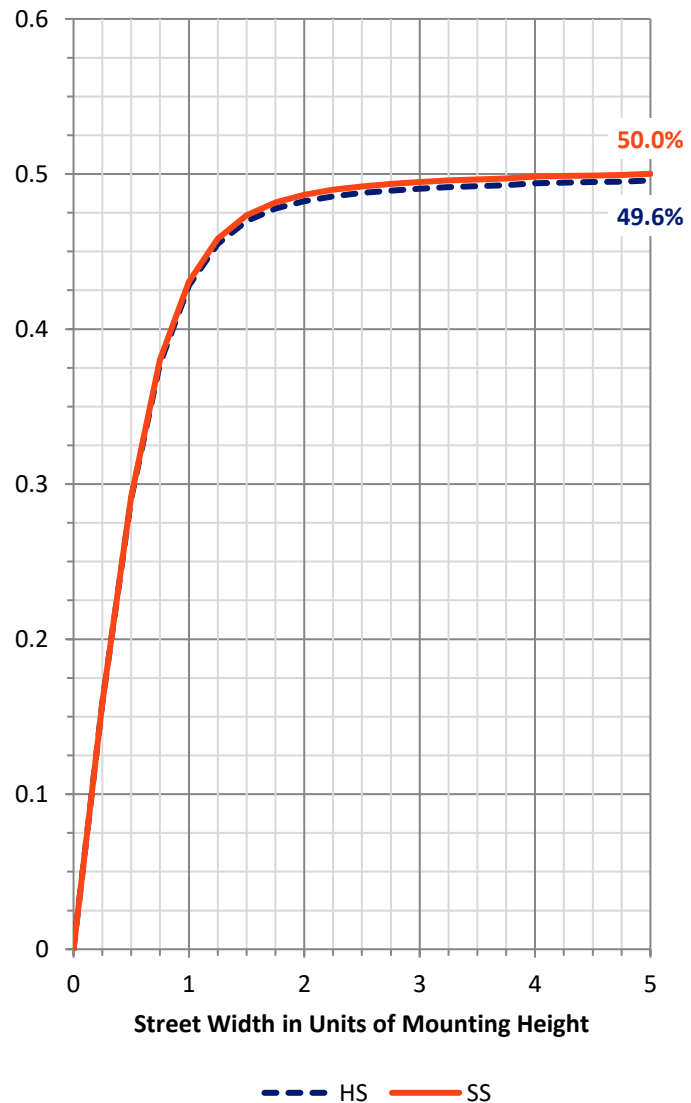
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1030.2	0.0	1030.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1030.2	0.0	1030.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	2060.5	0.0	2060.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.8
10°-20°	119.7	5.8
20°-30°	193.6	9.4
30°-40°	241.9	11.7
40°-50°	302.5	14.7
50°-60°	372.8	18.1
60°-70°	461.5	22.4
70°-80°	301.6	14.6
80°-90°	28.7	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°	2060.5	100.0
0°-180°	2060.5	100.0



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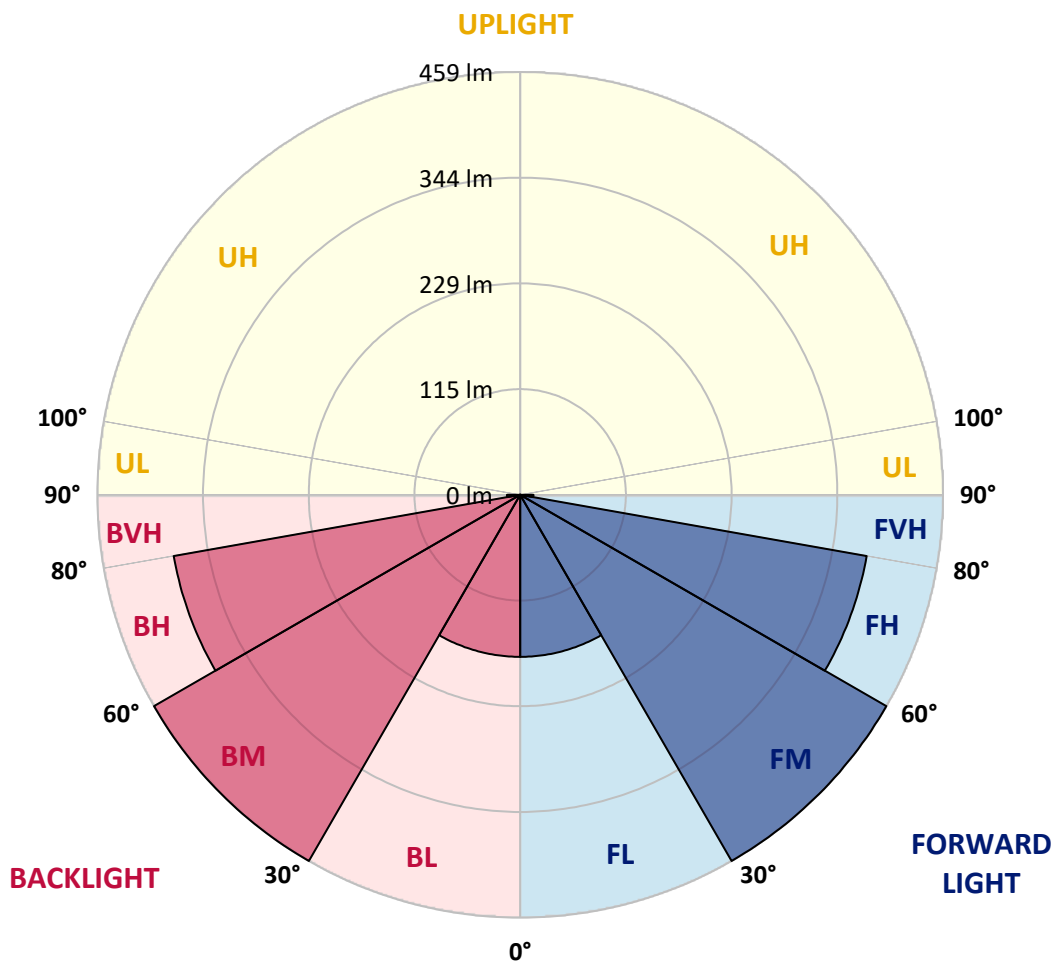
CATALOG NUMBER: ECM-F01-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.7	8.5			
FM	(30°-60°)	458.6	22.3			
FH	(60°-80°)	381.6	18.5			G0/660
FVH	(80°-90°)	14.3	0.7			G1/100
BL	(0°-30°)	175.7	8.5	B1/500		
BM	(30°-60°)	458.6	22.3	B1/1000		
BH	(60°-80°)	381.6	18.5	B1/500		G1/500
BVH	(80°-90°)	14.3	0.7			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0
2.5°	391.6	391.8	391.1	391.4	391.6	391.3	391.0	391.0	390.9	390.8	390.6
5°	394.1	394.2	393.9	394.5	394.6	395.0	395.0	395.0	395.0	394.9	394.8
7.5°	397.7	398.2	397.8	398.6	399.5	400.6	401.2	402.6	402.6	402.6	402.5
10°	401.1	401.6	401.6	403.5	405.4	407.6	410.0	412.1	412.2	412.4	412.5
12.5°	403.6	404.0	404.6	407.9	412.4	416.0	420.2	423.6	423.8	423.9	424.0
15°	402.6	403.4	406.0	411.4	419.2	425.4	430.4	434.5	434.8	435.1	435.4
17.5°	399.0	400.3	404.1	413.2	425.2	435.0	441.0	442.0	442.2	442.4	442.6
20°	391.2	393.0	399.2	412.0	429.6	443.0	448.9	446.8	446.7	446.5	446.3
22.5°	378.2	380.6	388.2	406.6	430.0	448.8	454.6	448.8	448.2	447.5	446.9
25°	360.8	362.8	371.4	393.1	424.6	449.8	458.2	450.1	449.0	448.0	447.0
27.5°	339.6	341.3	352.0	375.0	411.4	444.6	460.6	452.3	451.0	449.6	448.3
30°	315.8	317.2	329.0	353.6	392.8	432.8	460.3	457.3	455.7	454.1	452.5
32.5°	292.2	292.8	303.2	330.2	372.2	415.5	456.5	465.0	463.4	461.8	460.3
35°	266.2	268.0	279.2	308.6	348.8	396.4	451.4	475.6	474.8	473.9	473.0
37.5°	245.3	245.8	257.8	288.4	329.9	379.2	444.8	489.3	489.9	490.6	491.2
40°	224.4	224.4	236.2	268.0	311.0	363.6	439.4	506.2	509.4	512.6	515.7
42.5°	201.5	203.1	214.7	246.4	292.6	350.3	436.6	526.4	532.4	538.4	544.4
45°	180.1	181.1	193.0	224.0	269.8	335.2	435.8	548.9	558.0	567.1	576.2
47.5°	159.0	160.6	171.9	200.3	244.8	315.2	434.8	574.6	586.2	597.8	609.5
50°	139.6	140.5	153.0	179.0	220.2	289.2	428.0	603.2	617.5	631.7	645.9
52.5°	118.9	120.8	131.1	157.8	195.4	261.2	409.9	634.5	651.7	668.9	686.1
55°	97.3	96.8	109.2	134.4	173.6	234.4	376.7	661.6	682.3	703.0	723.8
57.5°	71.3	72.8	84.2	109.6	148.4	211.8	337.6	675.6	701.5	727.3	753.2
60°	51.1	53.2	63.0	83.2	123.3	189.8	297.6	665.8	700.1	734.4	768.7
62.5°	40.0	40.9	49.3	62.4	96.2	166.6	270.8	640.5	687.8	735.0	782.3
65°	34.8	35.9	43.4	50.2	73.0	144.7	254.6	620.4	682.7	745.1	807.5
67.5°	31.7	33.0	39.4	44.2	59.9	126.0	250.8	603.8	677.0	750.2	823.4
69°	30.2	31.4	37.5	41.8	55.6	120.0	246.4	576.1	650.4	724.6	798.9
70°	29.5	30.6	36.4	40.4	54.2	116.6	236.4	544.4	616.2	688.0	759.8
72.5°	27.2	27.8	33.0	37.0	51.4	97.6	187.3	407.5	467.5	527.5	587.4
75°	24.0	25.0	29.8	33.9	41.2	62.4	122.8	246.3	290.7	335.2	379.6
77.5°	20.6	21.4	25.6	32.4	31.7	37.8	70.6	137.6	161.6	185.6	209.7
80°	17.9	18.7	22.5	30.0	25.8	28.0	47.6	89.8	98.9	108.0	117.1
82.5°	14.0	14.6	18.9	24.5	20.0	20.8	35.6	78.4	83.9	89.4	94.9
85°	9.0	9.3	13.8	16.8	13.9	12.3	22.4	57.5	61.8	66.2	70.5
87.5°	3.1	4.4	6.2	5.8	5.8	4.4	7.9	21.2	23.0	24.6	26.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0
2.5°	390.5	390.4	390.6	390.6	390.4	390.2	390.3	390.2	390.0	390.0	389.8
5°	394.8	394.7	394.9	394.8	395.0	394.8	394.8	394.7	394.8	394.4	394.2
7.5°	402.5	402.5	402.5	402.8	402.6	402.5	402.8	402.7	402.8	402.4	402.4
10°	412.7	412.8	413.0	413.2	413.2	413.2	413.8	413.4	414.0	413.4	413.8
12.5°	424.2	424.3	424.9	425.1	425.4	425.4	425.4	426.0	426.5	426.4	426.5
15°	435.7	436.0	436.0	436.4	436.4	436.5	437.0	437.8	437.6	438.0	438.0
17.5°	442.8	443.0	442.9	442.9	443.1	443.5	444.0	444.4	444.3	444.6	444.8
20°	446.1	445.9	445.6	445.4	445.2	445.4	445.4	445.6	445.8	445.8	445.8
22.5°	446.2	445.6	444.8	444.3	443.7	443.4	443.6	443.4	443.4	443.4	443.2
25°	445.9	444.8	443.6	442.6	441.7	441.2	440.6	440.4	439.8	439.8	439.8
27.5°	446.9	445.6	444.2	442.6	441.2	440.6	439.8	439.0	438.4	438.0	438.0
30°	450.9	449.2	447.6	445.6	443.8	443.2	441.7	441.0	439.8	439.2	439.0
32.5°	458.7	457.2	455.0	452.6	451.2	449.6	448.2	446.5	445.2	444.4	443.4
35°	472.1	471.2	469.4	467.8	465.8	463.8	461.2	460.3	457.6	457.2	455.9
37.5°	491.8	492.4	492.1	491.0	489.6	487.8	486.8	484.8	483.8	482.8	481.6
40°	518.9	522.1	523.1	524.4	524.8	526.2	524.5	524.2	522.9	524.1	523.4
42.5°	550.4	556.4	559.6	563.4	567.6	571.4	574.5	579.6	579.0	583.0	585.8
45°	585.3	594.4	602.8	609.2	617.2	626.0	633.8	641.0	649.2	653.8	660.6
47.5°	621.1	632.8	644.7	656.6	668.0	679.3	693.2	705.9	718.2	726.6	737.2
50°	660.1	674.4	688.8	703.2	719.4	737.2	752.8	769.3	786.2	803.4	815.5
52.5°	703.3	720.4	736.1	751.4	771.4	790.4	810.6	831.2	856.8	875.6	892.2
55°	744.5	765.2	782.4	800.8	821.6	842.7	867.4	893.4	920.5	947.4	971.8
57.5°	779.1	805.0	825.4	843.6	866.0	890.3	916.9	949.0	980.0	1013.4	1044.8
60°	802.9	837.2	861.8	883.8	909.8	936.8	971.4	1009.4	1050.1	1091.7	1132.1
62.5°	829.6	876.8	910.5	941.8	972.6	1002.6	1041.7	1088.8	1144.0	1194.3	1247.8
65°	869.9	932.2	982.0	1021.9	1065.6	1109.2	1154.8	1209.8	1272.6	1345.9	1408.3
67.5°	896.6	969.8	1032.9	1090.2	1141.1	1194.2	1251.8	1317.6	1393.4	1468.2	1545.8
69°	873.2	947.4	1014.2	1077.3	1133.1	1190.2	1248.8	1315.0	1392.4	1475.2	1557.1
70°	831.6	903.4	972.3	1038.7	1093.3	1152.9	1210.6	1273.6	1352.2	1434.9	1524.0
72.5°	647.4	707.4	778.2	842.4	907.4	962.0	1014.0	1077.2	1156.5	1235.3	1322.0
75°	424.0	468.4	533.2	586.0	642.2	693.4	731.1	793.9	842.0	916.2	996.8
77.5°	233.7	257.7	291.4	334.3	358.6	387.4	425.1	448.0	482.2	534.0	558.2
80°	126.3	135.4	149.6	158.5	165.7	158.6	154.8	161.6	158.8	158.0	150.2
82.5°	100.4	105.9	113.2	118.4	115.1	99.8	83.7	72.0	64.4	54.2	46.4
85°	74.9	79.2	82.0	85.4	84.8	76.8	61.4	47.5	37.2	29.7	25.9
87.5°	28.0	29.8	30.6	37.2	34.2	32.4	25.2	18.4	14.0	10.2	8.2
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0	389.0
2.5°	390.0	390.0	389.9	389.9	390.0	389.8	389.5	389.8	389.7	389.7	389.7
5°	394.7	394.6	394.6	394.7	394.6	394.7	394.6	394.2	394.4	394.5	394.6
7.5°	402.7	402.6	402.6	403.2	403.0	403.0	402.8	403.0	402.7	402.7	402.9
10°	413.8	414.2	414.1	414.4	414.4	414.1	413.8	414.1	414.4	414.6	414.1
12.5°	427.2	427.4	427.1	427.6	427.4	428.2	427.2	427.7	428.2	427.4	427.8
15°	438.2	438.1	438.6	438.7	438.6	438.8	439.5	439.2	438.8	439.4	439.6
17.5°	444.8	445.1	445.2	445.3	445.6	445.8	445.9	445.8	445.9	446.1	446.6
20°	446.2	446.2	446.4	446.5	446.8	446.8	447.0	447.0	447.3	447.4	447.5
22.5°	443.6	443.7	443.8	444.2	444.0	444.3	444.4	444.8	444.6	444.8	445.0
25°	440.0	440.2	440.4	440.2	440.2	440.3	440.4	440.4	440.8	441.0	441.0
27.5°	437.6	437.6	438.0	437.9	437.7	437.9	437.8	437.8	437.8	437.9	438.2
30°	438.6	438.2	438.0	438.0	437.9	437.7	437.4	437.1	437.1	437.2	437.1
32.5°	443.6	442.9	442.6	442.2	442.0	441.4	440.6	440.4	439.9	439.8	439.6
35°	456.4	455.5	455.6	454.3	453.6	453.2	452.6	450.9	451.0	450.3	450.1
37.5°	481.8	480.4	479.8	481.0	478.8	479.7	477.8	476.9	477.4	476.1	476.8
40°	524.5	526.7	525.8	527.0	527.6	527.9	527.9	525.9	527.9	524.8	525.8
42.5°	586.2	592.0	594.1	594.8	598.4	597.4	596.4	596.2	596.2	597.7	596.9
45°	663.8	664.6	674.4	676.3	678.2	680.5	679.9	682.4	684.3	681.8	682.1
47.5°	743.0	751.3	758.5	762.4	766.8	764.6	766.3	767.3	774.0	773.2	772.7
50°	830.4	844.2	848.0	852.4	855.7	862.4	861.9	865.9	865.2	870.7	871.4
52.5°	913.2	928.4	943.8	950.6	955.7	963.4	966.5	970.9	969.2	968.8	972.9
55°	995.5	1021.0	1038.6	1055.9	1065.5	1075.8	1080.3	1086.6	1089.3	1090.6	1085.5
57.5°	1077.2	1107.7	1137.6	1158.9	1173.8	1189.4	1197.6	1204.4	1212.4	1215.1	1212.6
60°	1172.6	1217.3	1256.4	1285.0	1312.4	1329.4	1347.1	1360.1	1362.6	1373.6	1380.7
62.5°	1299.8	1354.2	1403.8	1445.4	1487.9	1519.6	1551.6	1564.4	1577.1	1585.6	1590.9
65°	1473.2	1544.9	1613.4	1672.5	1724.6	1777.4	1814.8	1834.4	1859.6	1864.6	1859.1
67.5°	1625.2	1709.8	1794.9	1870.2	1926.5	1981.2	2025.5	2058.0	2081.6	2093.2	2098.1
69°	1641.8	1727.9	1814.8	1889.9	1958.0	2012.6	2058.0	2090.3	2113.8	2133.9	2137.4
70°	1607.6	1704.2	1788.8	1864.4	1934.8	1990.4	2031.0	2067.9	2094.6	2110.0	2115.5
72.5°	1411.2	1498.1	1583.4	1670.6	1731.0	1797.7	1831.2	1860.8	1896.3	1916.5	1912.1
75°	1069.5	1144.6	1219.0	1284.4	1330.8	1355.4	1394.6	1423.2	1418.0	1452.0	1452.9
77.5°	603.2	613.0	663.6	656.8	679.1	679.7	685.4	695.6	676.2	716.0	687.4
80°	146.3	144.4	154.8	142.5	141.4	140.4	136.9	143.8	144.6	137.6	138.9
82.5°	43.0	41.1	40.3	39.2	41.0	40.4	40.8	41.0	42.2	40.6	42.3
85°	23.5	22.2	22.0	21.5	21.4	20.0	20.0	20.0	19.2	19.4	19.3
87.5°	9.0	8.5	8.0	7.6	7.6	7.2	6.8	6.3	5.6	5.0	4.6
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)