

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: P139433

Luminaire Tested: **ENV-F02-LED-E1-BL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P139433
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33644)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-F02-LED-E1-BL2-8030
Description: ENTRI LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3815.5 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

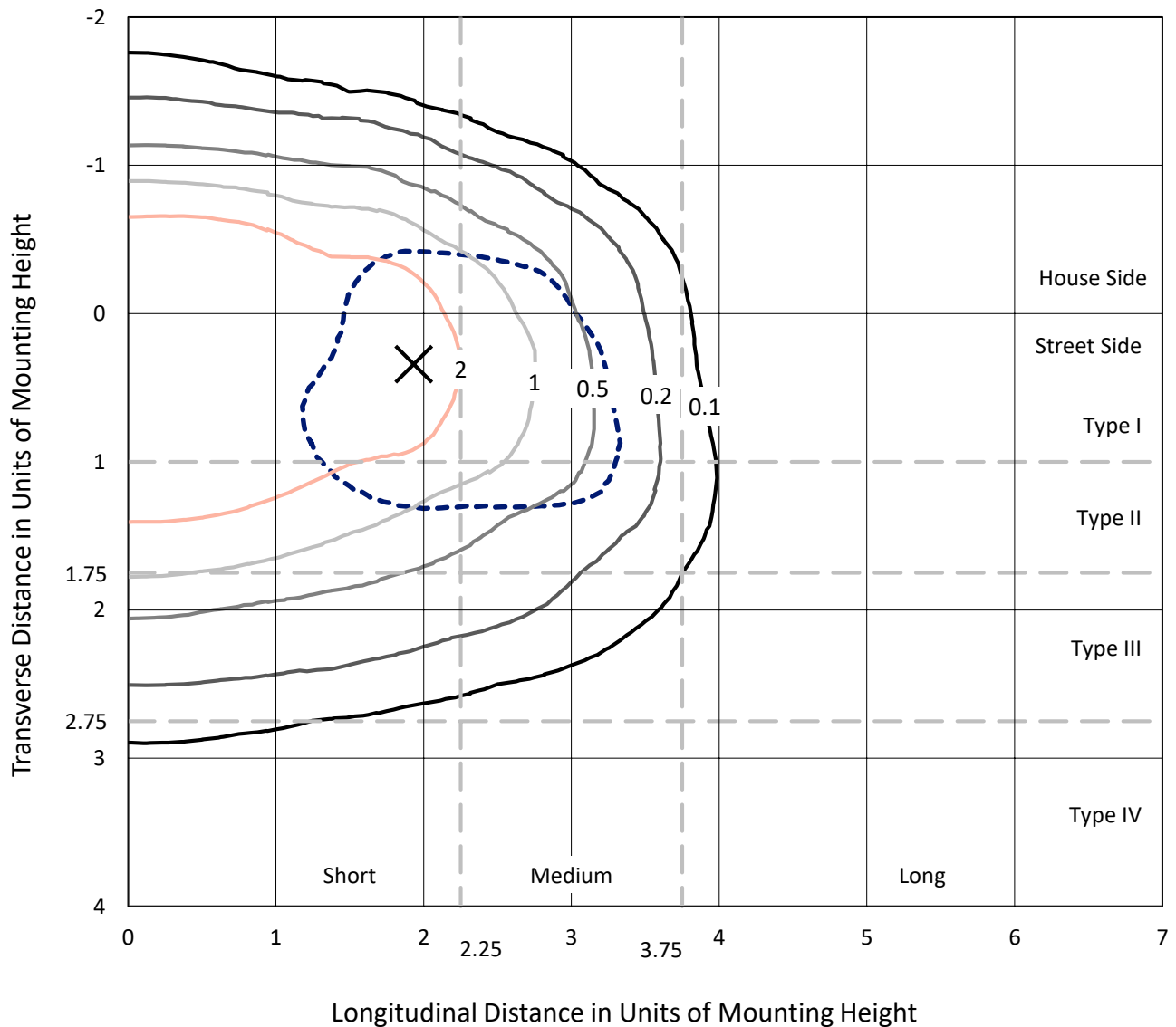
Input Watts (W): 49.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

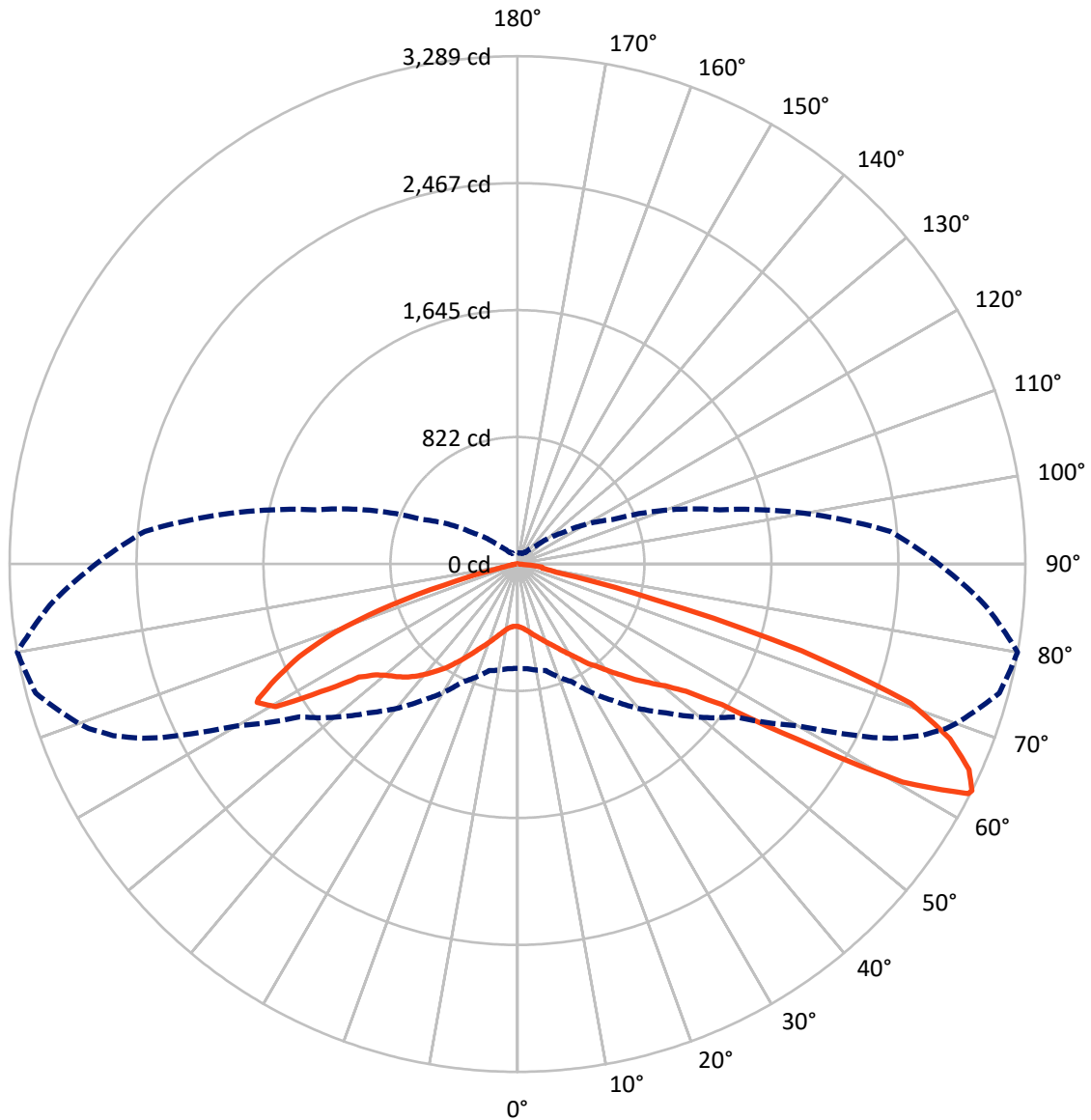
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.3	0.0	1188.3
	% Fixture	31.1	0.0	31.1
Street Side	Lumens	2627.2	0.0	2627.2
	% Fixture	68.9	0.0	68.9
Total	Lumens	3815.5	0.0	3815.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.1
10°-20°	138.9	3.6
20°-30°	261.0	6.8
30°-40°	414.3	10.9
40°-50°	625.3	16.4
50°-60°	878.9	23.0
60°-70°	1025.5	26.9
70°-80°	396.4	10.4
80°-90°	34.5	0.9
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°	3815.5	100.0
0°-180°	3815.5	100.0



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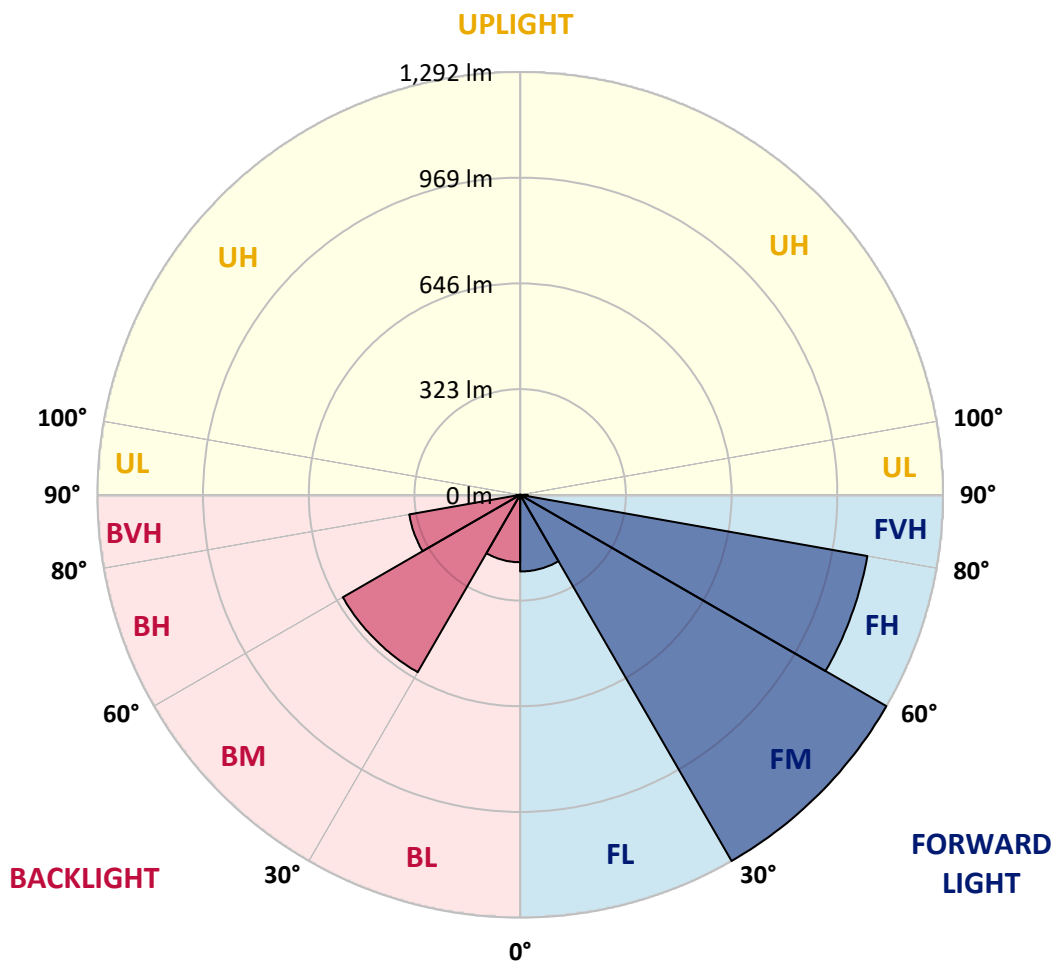
CATALOG NUMBER: ENV-F02-LED-E1-BL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.3	6.1			
FM	(30°-60°)	1292.4	33.9			
FH	(60°-80°)	1077.5	28.2			G1/1800
FVH	(80°-90°)	23.0	0.6			G1/100
BL	(0°-30°)	206.1	5.4	B1/500		
BM	(30°-60°)	626.2	16.4	B1/1000		
BH	(60°-80°)	344.5	9.0	B1/500		G1/500
BVH	(80°-90°)	11.5	0.3			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°	60°	61°	62°	64°
0°	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1
2.5°	424.3	422.9	423.6	422.9	422.9	421.5	417.3	417.3	416.6	417.3	416.0
5°	447.3	446.6	445.9	444.5	444.5	441.7	434.8	433.4	434.1	432.7	429.9
7.5°	473.1	472.4	471.0	468.2	466.8	462.6	452.9	451.5	450.8	449.4	447.3
10°	498.9	498.2	496.1	492.6	489.1	482.8	473.1	469.6	468.9	468.2	466.1
12.5°	525.3	523.2	523.9	517.7	512.1	504.4	493.3	489.8	489.1	488.4	487.7
15°	554.6	553.9	552.5	544.2	533.7	523.2	512.1	507.9	505.1	505.8	505.1
17.5°	582.5	581.8	576.9	565.1	551.1	539.3	525.3	522.6	522.6	521.9	521.9
20°	602.7	602.0	597.1	582.5	564.4	551.1	540.0	540.0	539.3	540.0	540.7
22.5°	611.7	611.7	605.5	589.4	569.9	560.2	556.7	558.8	559.5	560.2	561.6
25°	615.2	615.2	608.9	590.1	572.0	573.4	577.6	581.1	582.5	582.5	587.3
27.5°	621.5	622.2	613.8	593.6	579.0	592.2	602.7	607.6	609.6	611.0	617.3
30°	640.3	639.6	632.6	611.0	599.9	618.7	637.5	642.4	647.3	647.3	654.2
32.5°	668.2	667.5	663.3	646.6	641.7	665.4	682.1	692.6	691.9	693.3	698.1
35°	705.1	705.8	708.6	704.4	708.6	732.3	751.1	755.3	756.0	756.7	757.4
37.5°	746.9	747.6	762.9	776.2	795.0	829.8	841.0	843.1	838.2	838.2	836.8
40°	778.3	781.7	815.9	850.7	890.4	937.8	954.5	950.3	946.9	944.1	935.7
42.5°	842.4	844.4	880.7	930.8	986.6	1052.1	1081.3	1067.4	1066.7	1054.2	1047.9
45°	906.5	912.0	951.0	1007.5	1074.4	1164.9	1208.1	1196.3	1194.2	1188.6	1171.2
47.5°	957.3	965.0	1008.2	1075.1	1151.7	1256.2	1333.6	1341.9	1337.0	1330.8	1316.8
50°	1000.5	1006.8	1050.7	1123.8	1211.6	1325.9	1436.7	1466.6	1470.8	1468.0	1464.5
52.5°	1028.4	1034.7	1077.8	1155.9	1246.5	1377.4	1513.3	1572.5	1585.1	1584.4	1599.0
55°	1029.1	1036.0	1080.6	1166.3	1266.0	1413.0	1584.4	1677.7	1693.1	1711.9	1743.2
57.5°	990.8	997.7	1053.5	1152.4	1271.5	1440.8	1653.4	1817.8	1859.6	1896.5	1982.9
60°	884.2	886.9	948.3	1080.6	1245.1	1434.6	1705.6	1938.3	1997.5	2077.7	2217.0
62.5°	720.4	726.0	763.6	892.5	1121.7	1379.5	1726.5	2072.8	2170.3	2287.4	2510.3
63°	675.1	680.0	714.9	842.4	1079.9	1362.1	1725.8	2094.4	2201.7	2322.2	2562.6
65°	521.2	522.6	548.3	644.5	886.2	1235.3	1688.2	2063.7	2199.6	2340.3	2592.6
67.5°	420.1	425.0	450.8	518.4	700.2	1037.4	1519.6	1787.8	1880.5	2019.1	2319.4
70°	328.9	337.2	361.6	438.2	597.1	835.4	1278.5	1492.4	1549.5	1615.7	1870.7
72.5°	217.4	219.5	223.7	266.2	416.6	650.1	1063.9	1209.5	1231.8	1279.2	1403.9
75°	102.4	110.1	116.4	138.0	201.4	425.7	771.3	859.1	885.6	935.0	980.3
77.5°	44.6	43.9	46.7	63.4	105.9	189.5	480.1	634.7	643.8	632.6	613.1
80°	13.9	14.6	15.3	16.7	33.4	90.6	207.6	426.4	471.0	501.0	492.6
82.5°	1.4	0.7	2.1	4.2	7.0	13.2	78.0	200.0	251.5	308.7	381.8
85°	0.0	0.0	0.7	0.7	1.4	2.8	4.9	20.9	34.8	40.4	80.1
87.5°	0.0	0.0	0.7	0.7	1.4	2.1	2.1	2.8	2.8	2.8	2.8
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):

	65°	66°	67°	68°	69°	70°	75°	80°	85°	90°	95°
0°	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1
2.5°	415.3	415.3	413.9	414.6	413.9	413.9	412.5	411.1	410.4	406.9	404.8
5°	429.9	429.9	429.2	427.8	427.8	427.1	423.6	420.1	418.0	413.9	409.7
7.5°	446.6	445.9	444.5	443.1	443.1	442.4	437.5	434.1	429.9	423.6	418.7
10°	466.1	465.4	464.0	461.9	461.9	461.2	456.4	450.8	447.3	439.6	433.4
12.5°	487.0	484.9	484.2	482.8	481.4	481.4	477.3	471.7	468.9	460.5	454.3
15°	504.4	503.0	502.3	501.6	501.0	499.6	496.1	491.2	489.1	482.1	477.3
17.5°	521.2	521.2	521.9	520.5	519.8	518.4	516.3	514.9	512.8	506.5	503.7
20°	540.7	540.7	542.1	541.4	540.7	542.8	542.1	541.4	541.4	535.8	533.7
22.5°	563.7	563.0	565.1	564.4	565.1	567.1	569.9	568.5	571.3	567.8	566.4
25°	590.1	589.4	591.5	592.9	594.3	595.7	601.3	602.7	606.2	605.5	602.7
27.5°	620.1	620.8	621.5	625.0	627.1	628.5	636.1	640.3	647.3	644.5	647.3
30°	654.9	658.4	661.2	664.7	665.4	666.8	679.3	683.5	687.0	689.1	693.3
32.5°	703.0	705.1	705.8	710.0	711.4	713.5	726.7	732.3	737.1	737.8	745.5
35°	761.5	762.9	765.0	767.1	769.9	768.5	783.8	792.2	798.5	799.2	807.5
37.5°	838.9	834.0	836.1	833.3	829.1	829.1	834.0	842.4	849.3	854.9	863.3
40°	931.5	928.1	927.4	921.1	914.1	907.8	905.1	909.9	915.5	920.4	930.8
42.5°	1037.4	1034.0	1022.1	1017.9	1006.1	999.1	980.3	982.4	992.2	994.9	1001.2
45°	1161.5	1148.9	1144.7	1119.0	1114.1	1104.3	1068.8	1066.0	1074.4	1075.1	1070.9
47.5°	1302.9	1293.8	1284.1	1266.0	1247.2	1231.1	1176.8	1148.2	1157.3	1156.6	1136.4
50°	1456.9	1455.5	1440.8	1429.0	1412.3	1389.3	1292.4	1240.2	1247.2	1240.9	1204.0
52.5°	1603.9	1599.7	1599.0	1590.0	1583.7	1576.0	1458.3	1368.4	1352.4	1339.1	1291.7
55°	1758.6	1769.0	1762.0	1776.7	1787.8	1786.4	1737.7	1606.0	1524.5	1514.0	1441.5
57.5°	2016.4	2041.4	2074.9	2076.3	2106.2	2149.4	2237.2	2142.5	1938.3	1897.9	1801.1
60°	2311.8	2376.6	2460.2	2501.3	2565.4	2632.3	2852.4	2867.1	2581.4	2425.3	2247.7
62.5°	2608.6	2693.6	2792.5	2856.6	2936.0	2988.3	3221.0	3276.7	3016.2	2728.4	2435.8
63°	2671.3	2758.4	2844.1	2906.8	2973.7	3021.7	3230.8	3289.3	3039.9	2729.1	2423.9
65°	2704.0	2785.5	2852.4	2908.2	2952.8	2985.5	3150.6	3214.0	3008.5	2628.1	2290.9
67.5°	2455.3	2586.3	2670.6	2738.2	2783.5	2828.7	2980.6	3020.3	2874.7	2431.6	2088.8
70°	2032.4	2183.6	2316.6	2421.9	2499.9	2568.9	2728.4	2701.2	2575.8	2113.2	1771.8
72.5°	1495.2	1626.9	1756.5	1875.6	1977.3	2065.1	2170.3	1924.4	1733.5	1405.3	1226.3
75°	1005.4	1034.0	1093.2	1152.4	1189.3	1214.4	1149.6	916.2	744.1	667.5	583.9
77.5°	593.6	574.1	576.2	561.6	551.8	549.7	461.2	256.4	135.2	138.0	144.9
80°	473.8	452.2	429.2	403.4	386.7	368.6	300.3	164.4	58.5	47.4	49.5
82.5°	383.2	377.6	365.1	338.6	312.1	280.8	214.6	158.2	33.4	26.5	28.6
85°	74.6	83.6	75.2	82.2	61.3	57.8	34.1	36.9	13.2	11.8	14.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.6
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):

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1	404.1
2.5°	401.3	398.5	396.4	393.7	392.3	390.2	389.5	387.4	388.1
5°	402.7	397.8	393.7	389.5	386.7	385.3	383.9	382.5	382.5
7.5°	409.7	403.4	398.5	393.7	391.6	388.8	388.1	386.0	386.0
10°	424.3	417.3	411.1	405.5	402.7	399.2	397.8	395.7	395.7
12.5°	445.9	439.6	432.7	424.3	418.7	414.6	411.1	409.7	409.7
15°	470.3	465.4	459.8	448.7	439.6	432.0	425.0	422.2	421.5
17.5°	499.6	495.4	489.8	477.3	462.6	446.6	434.8	429.2	428.5
20°	535.1	530.9	522.6	505.1	482.1	457.1	438.2	429.9	429.2
22.5°	571.3	571.3	557.4	528.8	494.7	461.2	436.2	425.0	422.9
25°	611.0	613.1	592.2	547.6	501.6	459.1	427.1	413.2	410.4
27.5°	659.1	657.0	622.2	562.3	502.3	450.8	412.5	395.7	393.0
30°	712.1	698.1	646.6	570.6	497.5	435.5	393.0	374.1	372.1
32.5°	765.0	735.1	664.7	572.0	483.5	413.2	367.2	347.7	344.9
35°	821.5	767.8	675.8	564.4	460.5	383.2	335.1	316.3	313.5
37.5°	868.8	792.9	679.3	544.2	425.7	348.4	305.9	286.4	281.5
40°	912.0	811.0	673.0	511.4	386.7	314.2	275.2	258.5	257.1
42.5°	951.7	819.4	650.8	468.9	347.7	285.0	249.4	233.4	232.0
45°	982.4	813.8	613.1	422.2	315.6	259.9	226.4	211.8	209.0
47.5°	1001.9	793.6	561.6	383.2	289.1	234.1	201.4	186.0	183.2
50°	1017.2	763.6	509.3	353.2	263.4	207.6	175.6	161.6	159.6
52.5°	1037.4	725.3	464.0	326.1	233.4	177.7	149.1	135.9	133.8
55°	1082.0	692.6	432.0	296.1	201.4	146.3	122.6	114.3	111.5
57.5°	1233.2	703.7	411.8	259.9	164.4	117.7	101.7	96.8	96.1
60°	1392.1	751.1	402.0	218.1	127.5	95.5	86.4	85.0	84.3
62.5°	1383.7	708.6	361.6	171.4	98.2	78.7	74.6	75.2	75.2
63°	1355.8	682.8	348.4	160.9	93.4	76.6	72.5	72.5	72.5
65°	1187.2	579.0	282.9	121.9	78.0	68.3	64.8	65.5	66.2
67.5°	980.3	418.0	186.0	85.0	70.4	62.0	57.8	56.4	56.4
70°	749.7	281.5	110.1	73.9	69.7	57.8	50.9	49.5	49.5
72.5°	491.9	172.1	74.6	73.9	69.0	55.0	47.4	44.6	44.6
75°	225.7	85.0	62.0	71.1	65.5	50.9	41.8	38.3	37.6
77.5°	87.8	53.6	55.7	59.9	50.9	41.8	37.6	34.8	34.1
80°	50.9	43.2	48.8	43.2	36.9	32.0	32.0	30.0	29.3
82.5°	36.9	36.9	37.6	31.4	27.9	26.5	26.5	24.4	23.7
85°	26.5	27.2	31.4	25.1	21.6	18.8	17.4	17.4	16.7
87.5°	13.2	21.6	17.4	10.5	9.8	9.1	9.1	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)