

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: McGRAW-EDISON

Report Number: P226451

Luminaire Tested: **IST-AF-1000-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-AF-1000-LED-E1-T3-8030-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6689.3 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 71.3
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

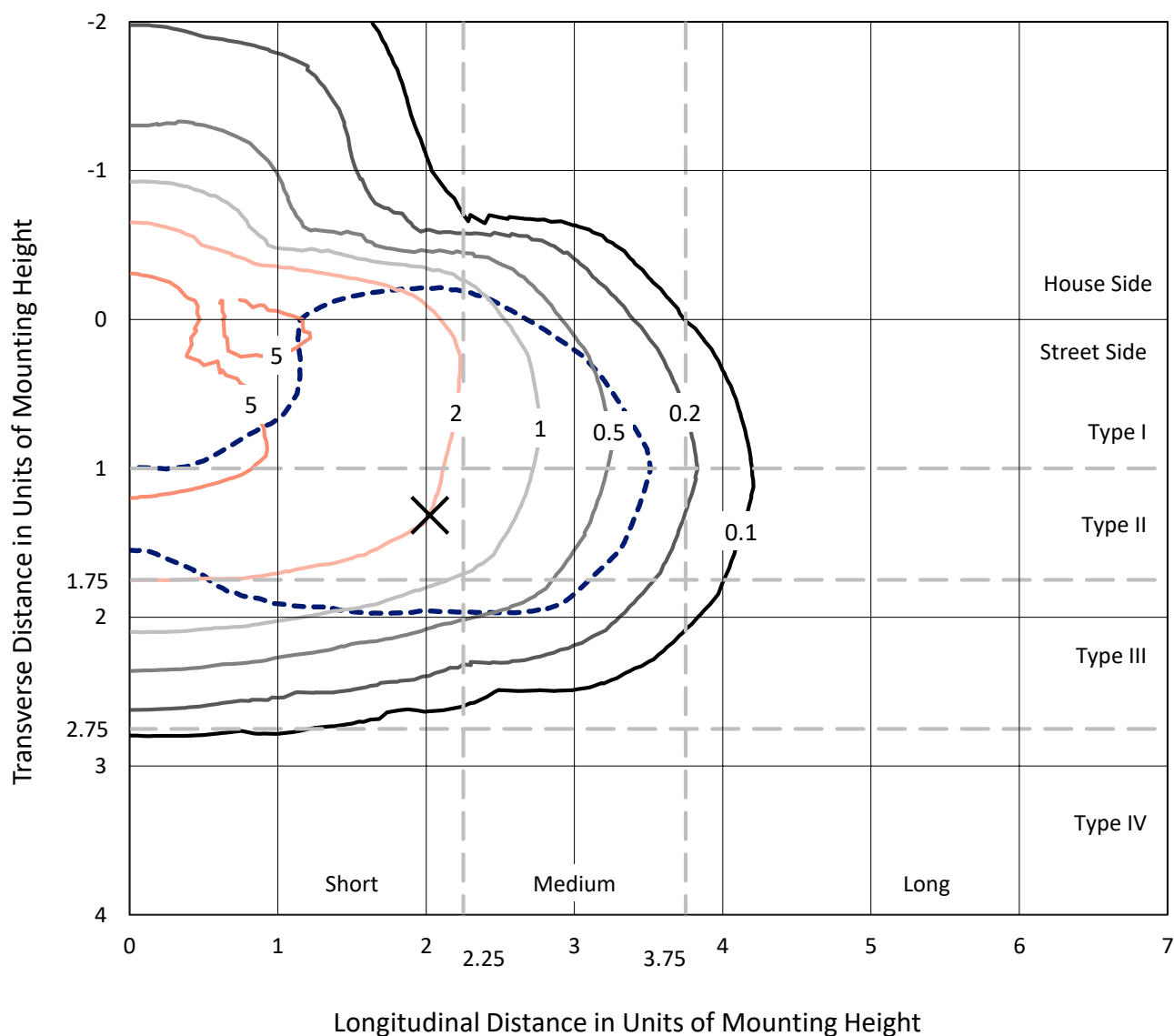


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

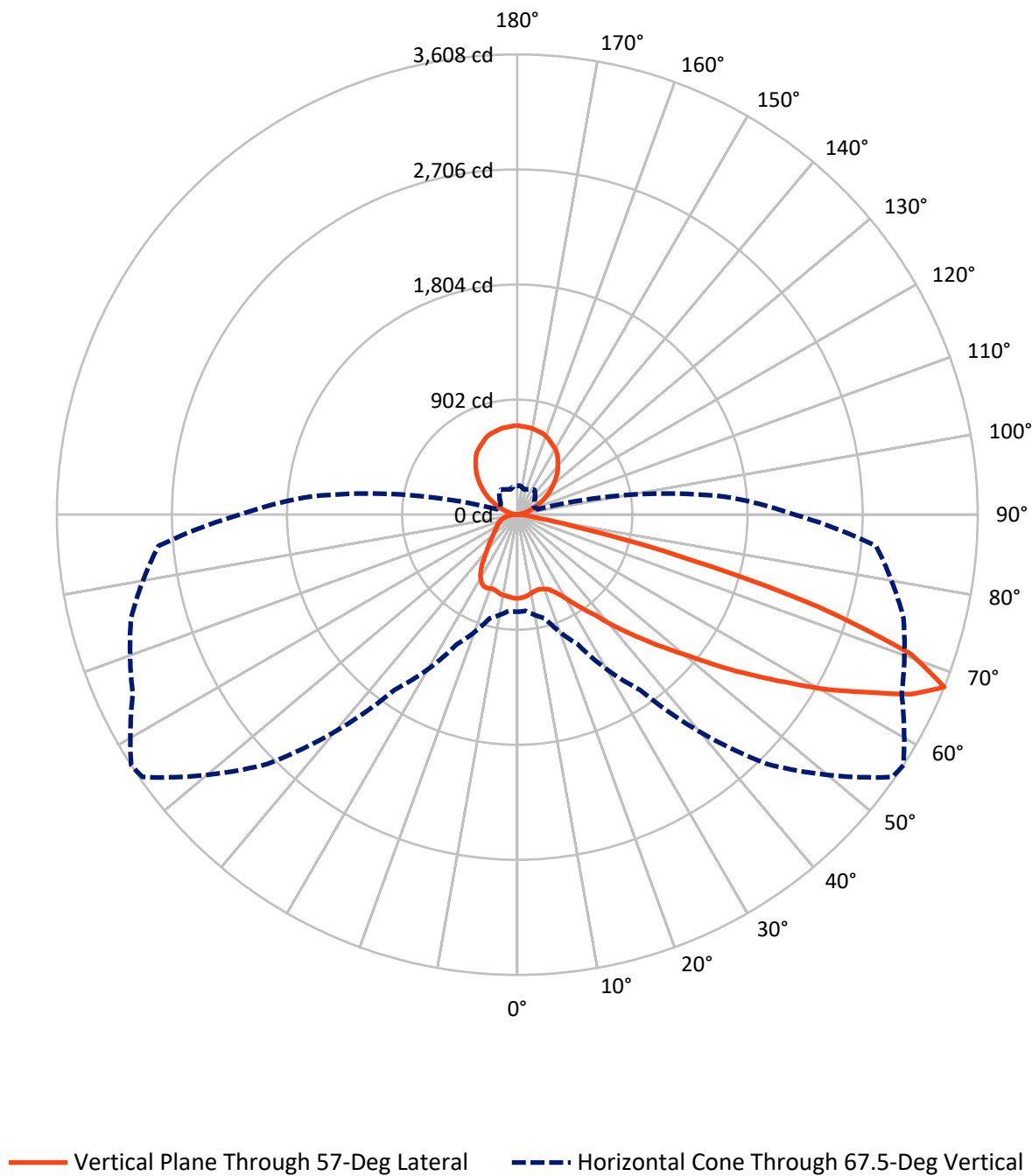


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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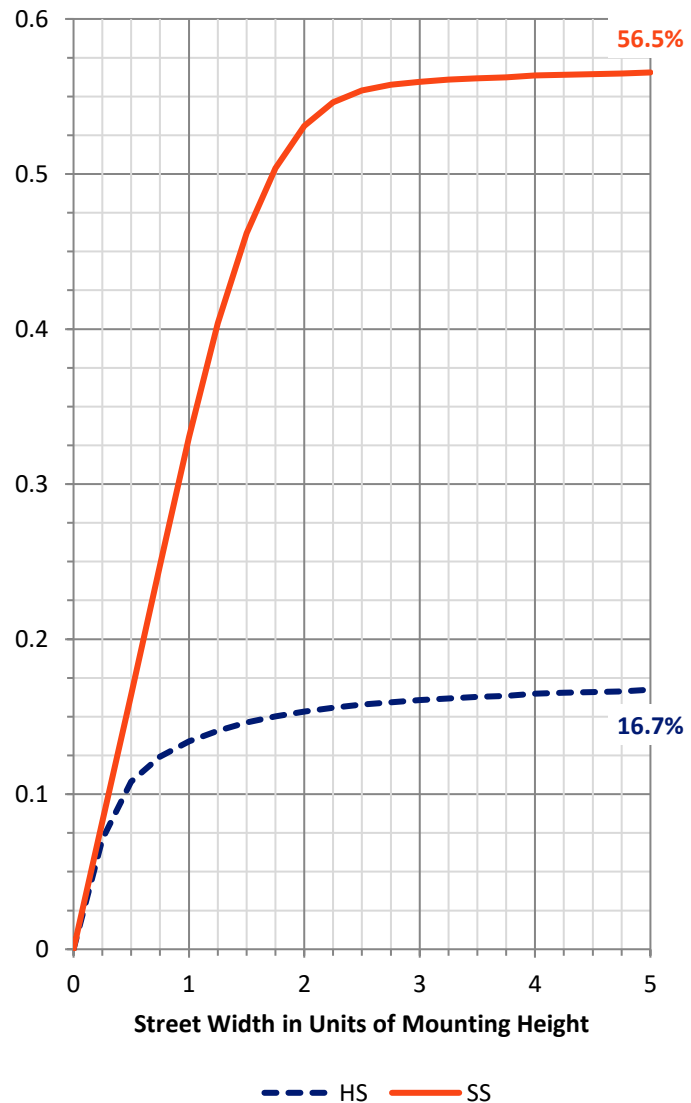
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.2	869.0	2022.2
	% Fixture	17.2	13.0	30.2
Street Side	Lumens	3799.2	868.0	4667.1
	% Fixture	56.8	13.0	69.8
Total	Lumens	4952.3	1737.0	6689.3
	% Fixture	74.0	26.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	0.9
10°-20°	176.5	2.6
20°-30°	303.7	4.5
30°-40°	493.7	7.4
40°-50°	796.4	11.9
50°-60°	1187.2	17.7
60°-70°	1337.1	20.0
70°-80°	515.5	7.7
80°-90°	80.9	1.2
90°-100°	11.1	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.5
120°-130°	273.2	4.1
130°-140°	336.8	5.0
140°-150°	344.6	5.2
150°-160°	290.3	4.3
160°-170°	191.2	2.9
170°-180°	66.3	1.0
0°-90°	4952.3	74.0
0°-180°	6689.3	100.0

Coefficient of Utilization



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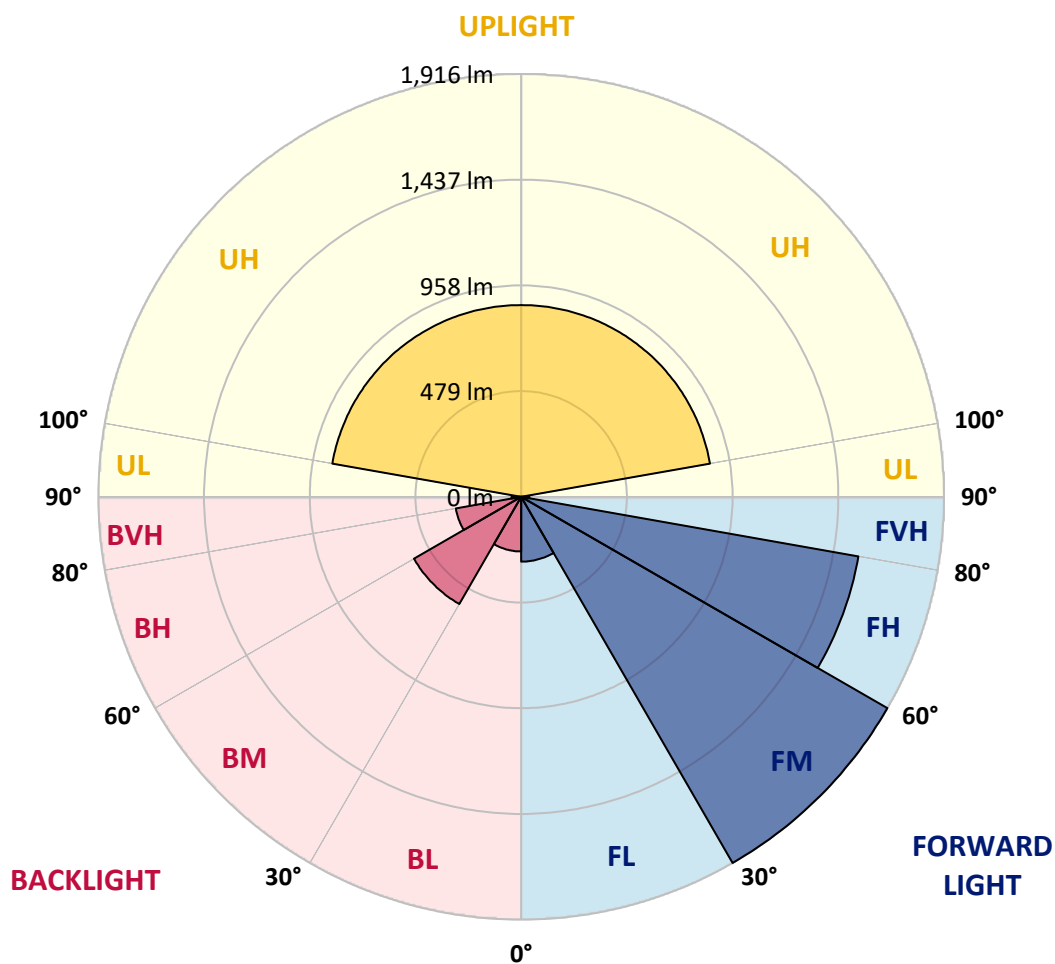
CATALOG NUMBER: IST-AF-1000-LED-E1-T3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.8	4.4			
FM	(30°-60°)	1916.3	28.6			
FH	(60°-80°)	1551.9	23.2			G1/1800
FVH	(80°-90°)	37.2	0.6			G1/100
BL	(0°-30°)	247.7	3.7	B1/500		
BM	(30°-60°)	561.0	8.4	B1/1000		
BH	(60°-80°)	300.8	4.5	B1/500		G1/500
BVH	(80°-90°)	43.7	0.7			G1/100
UL	(90°-100°)	11.1	0.2		U2/50	
UH	(100°-180°)	869.0	13.0		U4/1000	

BUG Rating: B1-U5-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4
2.5°	651.4	652.8	654.2	653.5	653.5	653.5	653.5	652.1	654.2	654.2	652.8
5°	640.6	641.3	642.0	643.5	644.9	646.3	647.1	647.1	647.8	647.1	645.6
7.5°	624.8	625.5	628.4	628.4	629.8	632.7	634.1	635.6	637.7	637.7	637.0
10°	619.8	619.8	619.8	617.6	619.1	619.8	622.0	622.0	627.7	630.6	632.0
12.5°	625.5	624.8	624.8	619.1	614.1	611.9	614.1	614.8	621.2	625.5	628.4
15°	638.5	638.5	637.0	628.4	618.4	610.5	609.8	609.8	614.8	621.2	626.3
17.5°	668.6	671.5	661.4	647.8	631.3	618.4	613.3	612.6	616.2	621.2	626.3
20°	726.0	725.3	710.2	685.8	657.1	635.6	623.4	622.0	621.2	624.1	629.8
22.5°	794.1	791.3	773.3	742.5	703.0	663.6	639.9	637.0	631.3	633.4	641.3
25°	867.3	868.0	845.8	805.6	756.1	708.8	672.9	670.0	657.8	656.4	665.0
27.5°	940.5	949.8	919.7	881.6	822.8	766.1	713.8	709.5	698.7	695.1	703.7
30°	1047.4	1043.8	1006.5	957.0	898.1	827.1	776.9	769.0	747.5	752.5	761.8
32.5°	1137.7	1145.6	1111.9	1053.1	975.6	901.0	842.9	838.6	817.8	823.5	836.4
35°	1248.2	1266.9	1222.4	1149.9	1075.3	998.6	929.0	917.5	901.0	912.5	922.5
37.5°	1374.5	1383.8	1349.4	1256.1	1180.1	1099.7	1020.8	1002.9	984.9	1008.6	1026.5
40°	1495.0	1510.0	1465.6	1386.7	1298.4	1221.7	1135.6	1132.0	1090.4	1116.2	1162.8
42.5°	1673.6	1692.3	1621.2	1529.4	1449.8	1357.3	1275.5	1256.1	1210.9	1247.5	1325.7
45°	1798.4	1797.7	1749.6	1673.6	1624.8	1535.2	1424.7	1401.7	1352.9	1401.7	1506.5
47.5°	1843.6	1854.4	1837.9	1828.6	1811.3	1746.1	1583.2	1561.7	1515.8	1588.2	1685.1
50°	1910.3	1907.5	1907.5	1964.9	2014.4	2000.7	1769.0	1738.2	1690.1	1776.9	1916.1
52.5°	1927.6	1901.7	1941.9	2051.7	2208.8	2220.2	1984.9	1967.7	1910.3	1995.0	2166.4
55°	1879.5	1873.0	1936.9	2096.1	2343.6	2425.4	2235.3	2211.6	2147.1	2219.5	2436.9
57.5°	1771.9	1788.4	1891.0	2086.8	2436.9	2606.2	2510.1	2476.3	2383.8	2427.6	2705.2
60°	1659.3	1667.2	1802.7	2053.8	2462.0	2731.7	2798.4	2779.1	2620.5	2646.4	2903.9
62.5°	1534.4	1515.8	1656.4	2026.6	2434.0	2904.6	3078.2	3063.1	2875.9	2868.0	3045.2
65°	1185.8	1211.6	1331.4	1675.0	2242.5	3039.5	3411.8	3392.4	3160.7	3050.9	3030.1
67.5°	761.8	756.8	841.5	1119.8	1675.8	2762.6	3586.1	3607.6	3323.5	3133.4	2822.1
70°	273.3	281.2	312.8	508.6	918.9	1840.8	3161.4	3268.3	3203.7	2979.2	2297.0
72.5°	166.4	166.4	189.4	228.8	372.3	873.0	2253.2	2464.9	2614.8	2454.8	1696.6
75°	130.6	129.8	137.7	157.8	200.9	286.2	1198.0	1361.6	1677.2	1695.8	965.6
77.5°	103.3	102.6	110.5	119.8	149.9	151.4	382.4	497.9	769.7	724.5	345.1
80°	83.2	82.5	88.2	91.1	109.8	104.7	153.5	177.9	269.7	236.7	149.2
82.5°	75.3	75.3	81.1	69.6	76.0	73.9	95.4	101.9	135.6	140.6	89.7
85°	48.8	50.2	76.0	67.4	49.5	45.2	61.0	64.6	84.6	92.5	43.8
87.5°	23.0	25.1	58.1	56.0	33.0	24.4	34.4	36.6	45.9	56.7	25.8
90°	9.3	9.3	14.2	15.9	12.3	11.3	12.7	12.4	14.0	16.2	14.2
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	6.0	6.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.2	8.0	7.0	7.0
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.6	10.0	9.0	8.0
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.4	26.0	23.0	19.0
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.4	47.0	42.0	39.0
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.6	70.0	65.0	61.0
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.8	94.0	90.0	87.0
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.2	121.0	119.0	116.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.4	150.0	149.0	147.0
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.6	182.0	179.0	177.0
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.8	215.0	210.0	208.0
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.8	250.0	245.0	243.0
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.8	283.0	278.0	276.0
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.4	315.0	310.0	310.0
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.2	346.0	346.0	345.0
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.8	381.0	381.0	379.0
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	412.0	416.0	414.0	414.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	444.0	448.0	447.0	450.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.4	475.0	476.0	481.0
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.4	502.0	504.0	509.0
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	528.2	533.0	533.0	534.0
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	557.2	562.0	561.0	558.0
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	581.0	585.0	586.0	583.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.6	600.0	603.0	606.0
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.6	614.0	618.0	623.0
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	627.0	631.0	636.0	638.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.8	648.0	650.0	650.0
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	659.2	664.0	661.0	660.0
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.8	671.0	670.0	668.0
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	673.0	677.0	680.0	678.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	679.2	684.0	688.0	688.0
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.6	689.0	694.0	696.0
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.6	692.0	694.0	696.0
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	691.0	695.0	696.0	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	695.0	699.0	701.0	698.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4
2.5°	655.0	653.5	654.2	655.0	655.7	657.8	658.5	658.5	658.5	657.8	659.3
5°	647.1	645.6	645.6	647.8	649.9	652.8	657.1	660.7	662.1	662.8	662.8
7.5°	638.5	637.0	637.7	641.3	644.9	647.1	651.4	653.5	659.3	659.3	660.7
10°	632.7	634.1	634.9	638.5	641.3	641.3	640.6	639.2	637.7	641.3	639.9
12.5°	629.1	631.3	630.6	634.9	636.3	630.6	622.0	610.5	609.0	610.5	611.9
15°	627.7	627.7	629.8	629.8	622.7	611.2	600.4	601.2	602.6	606.9	606.9
17.5°	627.7	628.4	629.8	624.8	611.9	601.9	599.7	597.6	589.7	587.5	585.4
20°	632.7	631.3	632.7	623.4	611.9	604.0	587.5	571.7	556.7	550.2	547.3
22.5°	644.9	642.8	642.0	632.7	618.4	591.8	559.5	535.2	509.3	500.7	497.9
25°	666.4	665.7	660.7	654.2	614.1	562.4	521.5	482.8	454.8	439.7	440.5
27.5°	704.5	704.5	701.6	672.9	591.8	525.8	470.6	431.1	402.4	388.1	385.9
30°	761.8	763.3	764.7	677.9	556.7	472.0	414.6	388.1	370.9	360.1	359.4
32.5°	832.9	840.7	831.4	672.2	508.6	406.7	370.9	361.6	352.9	345.8	345.1
35°	926.8	948.4	889.5	649.2	454.8	362.3	344.3	337.9	331.4	326.4	327.1
37.5°	1053.1	1073.9	926.8	610.5	385.9	337.2	329.3	319.2	309.2	298.4	297.0
40°	1202.3	1195.8	939.7	537.3	342.9	325.0	314.2	301.3	284.1	268.3	265.4
42.5°	1351.5	1308.5	929.0	446.9	314.9	314.2	299.1	282.6	265.4	251.8	251.8
45°	1518.7	1407.5	896.0	362.3	292.7	302.7	284.1	266.9	251.1	241.0	240.3
47.5°	1676.5	1500.0	841.5	302.0	270.4	287.7	272.6	256.8	241.8	233.1	231.0
50°	1861.6	1605.5	799.9	261.1	248.9	272.6	266.1	251.8	237.4	227.4	226.0
52.5°	2048.8	1708.0	768.3	233.1	229.6	261.1	263.3	254.7	239.6	220.2	218.8
55°	2244.6	1836.4	705.2	210.9	212.3	252.5	266.9	260.4	249.6	218.1	216.6
57.5°	2408.9	1954.8	594.7	195.8	198.7	246.1	268.3	256.1	243.9	219.5	217.4
60°	2537.3	2035.9	436.2	183.6	186.5	238.9	261.8	241.0	225.3	219.5	215.9
62.5°	2576.8	2038.7	289.8	169.3	177.2	226.7	250.4	233.1	214.5	217.4	215.9
65°	2477.8	1931.1	207.3	155.7	169.3	212.3	245.3	225.3	209.5	220.9	219.5
67.5°	2172.9	1627.0	166.4	144.9	158.5	197.3	236.0	218.1	205.2	228.8	224.5
70°	1693.0	1167.2	141.3	134.1	147.1	182.9	223.1	210.2	199.4	222.4	216.6
72.5°	1116.2	687.2	124.8	124.1	133.4	170.7	208.8	203.0	190.1	201.6	193.0
75°	582.5	318.5	108.3	112.6	118.4	160.0	195.8	190.1	175.8	180.1	177.2
77.5°	228.8	149.2	94.0	99.0	105.5	144.2	179.3	173.6	161.4	157.8	157.1
80°	125.5	100.4	78.2	84.6	89.0	129.8	162.1	155.7	142.8	140.6	138.5
82.5°	79.6	65.3	64.6	68.9	74.6	115.5	145.6	135.6	124.8	147.1	119.1
85°	37.3	38.7	45.9	51.7	58.1	98.3	127.0	116.2	105.5	102.6	91.1
87.5°	20.8	25.8	30.1	35.2	40.2	68.9	100.4	90.4	78.9	67.4	69.6
90°	12.0	12.0	17.6	16.9	15.6	17.0	57.5	52.5	46.5	23.7	17.2
92.5°	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0
95°	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0
97.5°	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0	8.0	7.0	7.0
100°	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0	9.0	8.0	8.0
102.5°	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0	13.0	11.0	11.0
105°	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0	27.0	22.0	21.0
107.5°	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0	49.0	42.0	41.0
110°	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	74.0	68.0	66.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	106.0	99.0	99.0
115°	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	147.0	139.0	140.0
117.5°	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	189.0	184.0	184.0
120°	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	226.0	223.0	225.0
122.5°	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	261.0	260.0	263.0
125°	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	296.0	294.0	298.0
127.5°	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	329.0	329.0	330.0
130°	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	362.0	361.0	363.0
132.5°	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	393.0	394.0	396.0
135°	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	426.0	426.0	429.0
137.5°	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	459.0	457.0	460.0
140°	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	487.0	485.0	488.0
142.5°	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	517.0	515.0	518.0
145°	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	544.0	546.0	550.0
147.5°	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	571.0	572.0	575.0
150°	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	593.0	592.0	595.0
152.5°	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	608.0	608.0	611.0
155°	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	625.0	625.0	629.0
157.5°	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	643.0	643.0	646.0
160°	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	659.0	660.0	663.0
162.5°	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	669.0	669.0	673.0
165°	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	676.0	678.0	681.0
167.5°	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	684.0	687.0	690.0
170°	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	692.0	695.0	698.0
172.5°	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	695.0	697.0	699.0
175°	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	697.0	698.0	700.0
177.5°	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	700.0	705.0	707.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

(END OF REPORT)