

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: P226365

Luminaire Tested: **ISW-AF-600-LED-E1-T3-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226365  
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: ISW-AF-600-LED-E1-T3-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW  
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5972.6 lumens  
Efficiency: N/A  
Efficacy: 118.5 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): 50.4  
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

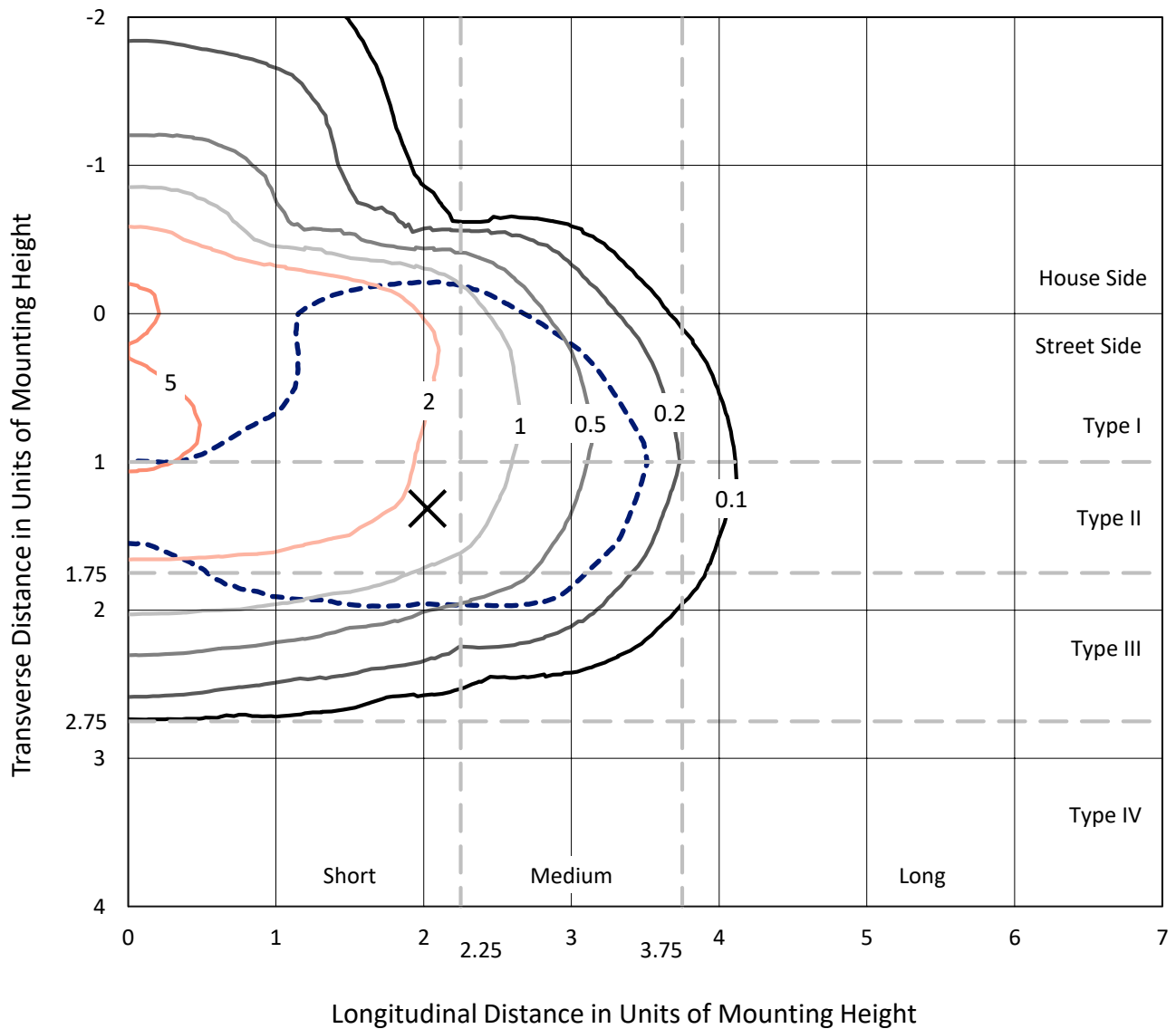


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### Iso-Footcandle Lines of Horizontal Illumination

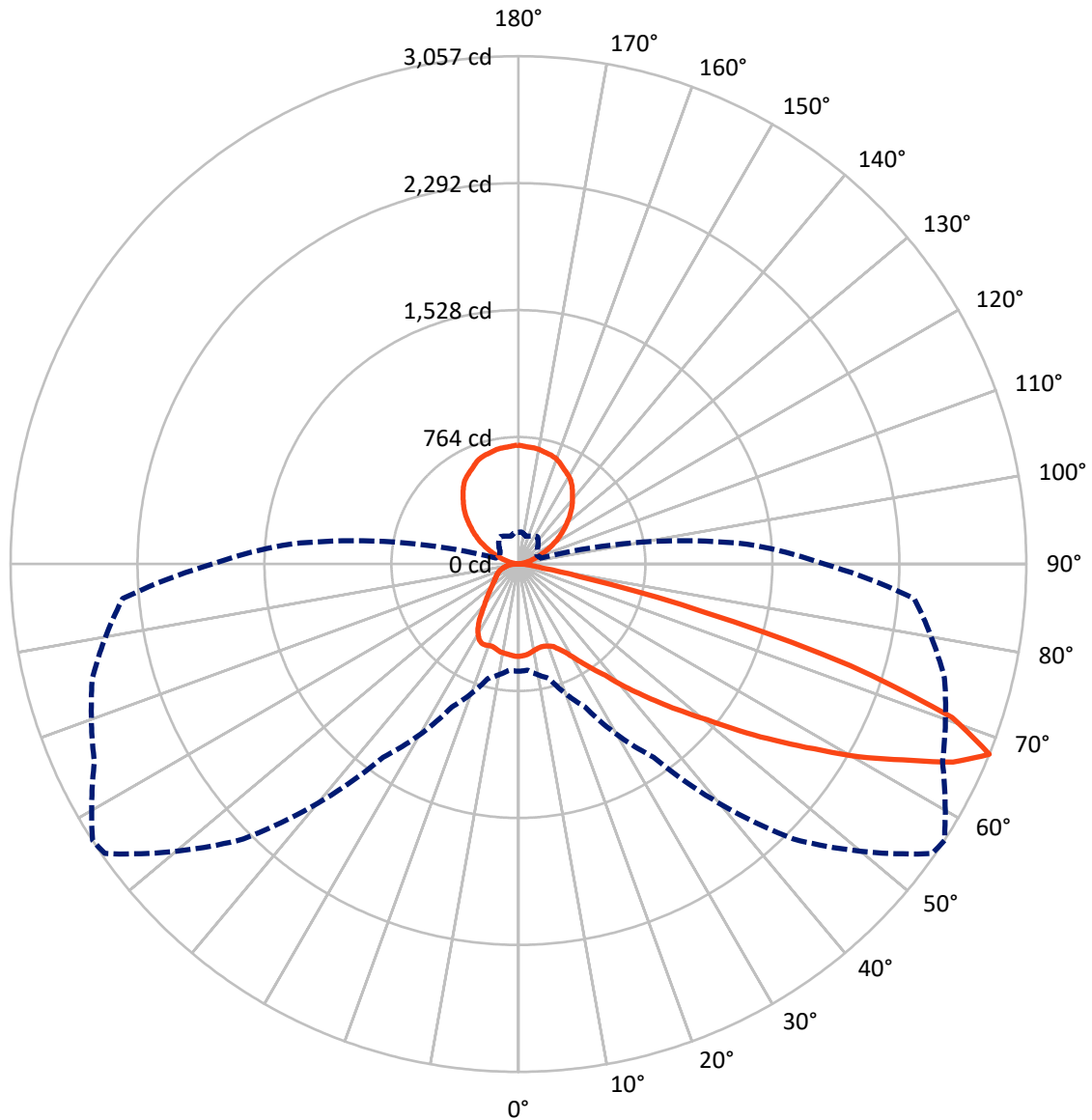
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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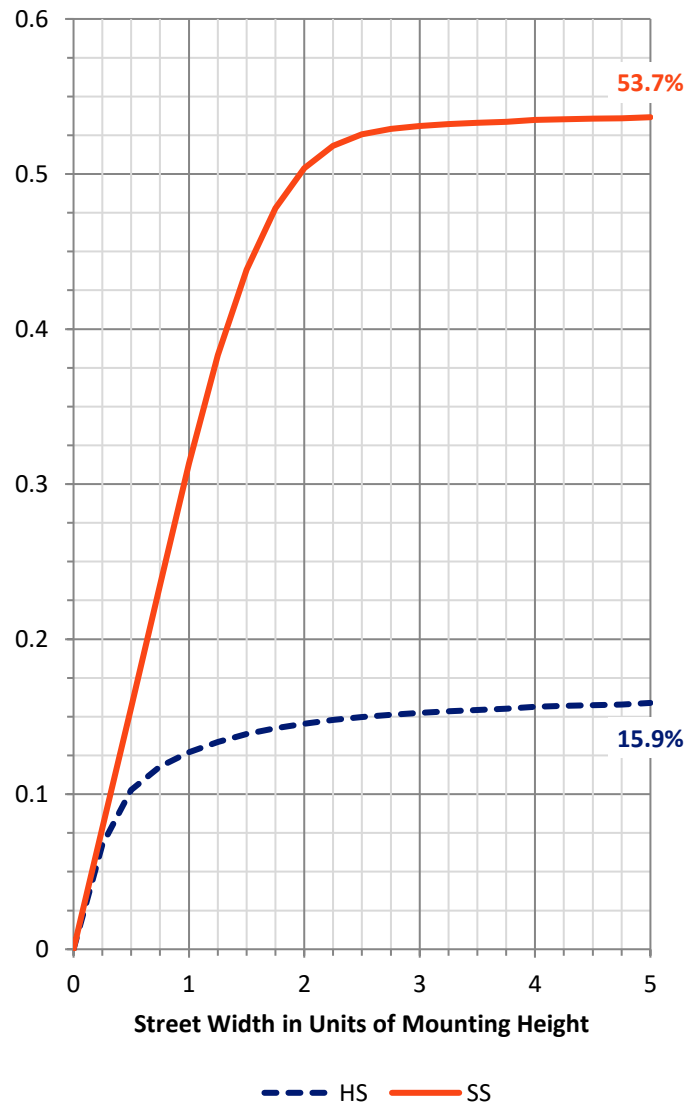
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	977.1	888.7	1865.8
	% Fixture	16.4	14.9	31.2
<b>Street Side</b>	Lumens	3219.0	887.8	4106.8
	% Fixture	53.9	14.9	68.8
<b>Total</b>	Lumens	4196.1	1776.5	5972.6
	% Fixture	70.3	29.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	0.9
10°-20°	149.5	2.5
20°-30°	257.3	4.3
30°-40°	418.3	7.0
40°-50°	674.7	11.3
50°-60°	1005.9	16.8
60°-70°	1132.9	19.0
70°-80°	436.8	7.3
80°-90°	68.7	1.2
90°-100°	11.0	0.2
100°-110°	58.7	1.0
110°-120°	169.9	2.8
120°-130°	279.4	4.7
130°-140°	344.6	5.8
140°-150°	352.5	5.9
150°-160°	297.0	5.0
160°-170°	195.5	3.3
170°-180°	67.8	1.1
0°-90°	4196.1	70.3
0°-180°	5972.6	100.0



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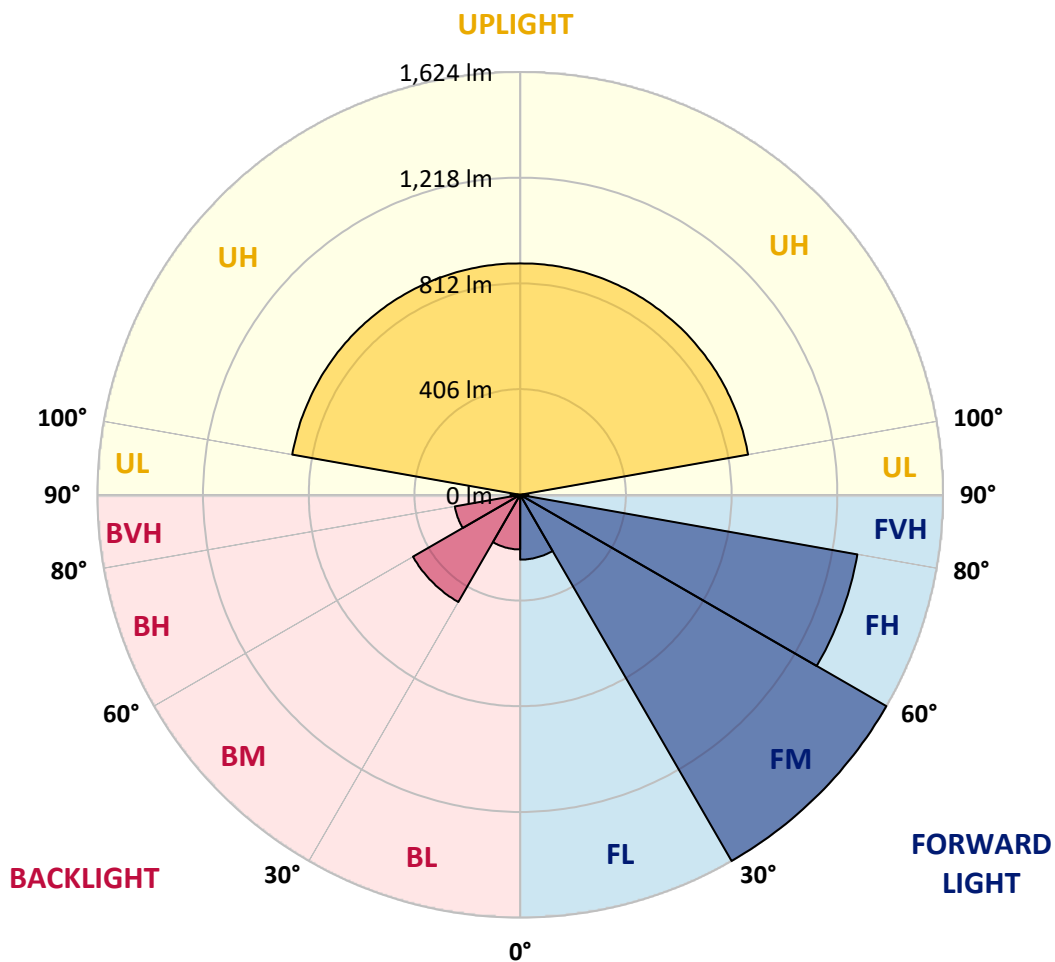
CATALOG NUMBER: ISW-AF-600-LED-E1-T3-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.9	4.2			
FM (30°-60°)	1623.6	27.2			
FH (60°-80°)	1314.9	22.0			G1/1800
FVH (80°-90°)	31.6	0.5			G1/100
BL (0°-30°)	209.8	3.5	B1/500		
BM (30°-60°)	475.3	8.0	B1/1000		
BH (60°-80°)	254.8	4.3	B1/500		G1/500
BVH (80°-90°)	37.1	0.6			G1/100
UL (90°-100°)	11.0	0.2		U2/50	
UH (100°-180°)	888.7	14.9		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°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2
2.5°	551.9	553.1	554.3	553.7	553.7	553.7	553.7	552.5	554.3	554.3	553.1
5°	542.8	543.4	544.0	545.2	546.4	547.6	548.2	548.2	548.8	548.2	547.0
7.5°	529.4	530.0	532.4	532.4	533.7	536.0	537.3	538.5	540.3	540.3	539.7
10°	525.2	525.2	525.2	523.3	524.6	525.2	526.9	526.9	531.8	534.3	535.5
12.5°	530.0	529.4	529.4	524.6	520.3	518.4	520.3	520.9	526.3	530.0	532.4
15°	540.9	540.9	539.7	532.4	524.0	517.2	516.6	516.6	520.9	526.3	530.6
17.5°	566.5	568.9	560.4	548.8	534.9	524.0	519.7	519.0	522.1	526.3	530.6
20°	615.1	614.5	601.7	581.0	556.7	538.5	528.1	526.9	526.3	528.8	533.7
22.5°	672.8	670.4	655.2	629.1	595.7	562.2	542.2	539.7	534.9	536.6	543.4
25°	734.8	735.4	716.6	682.5	640.6	600.5	570.1	567.6	557.3	556.2	563.4
27.5°	796.8	804.8	779.2	747.0	697.1	649.2	604.8	601.1	592.0	588.9	596.3
30°	887.4	884.3	852.7	810.8	761.0	700.8	658.3	651.5	633.3	637.6	645.5
32.5°	963.9	970.7	942.0	892.2	826.6	763.4	714.1	710.5	692.8	697.8	708.7
35°	1057.5	1073.4	1035.6	974.3	911.0	846.1	787.1	777.3	763.4	773.1	781.6
37.5°	1164.5	1172.4	1143.2	1064.3	999.8	931.7	864.9	849.7	834.5	854.6	869.7
40°	1266.6	1279.4	1241.8	1174.9	1100.1	1035.1	962.2	959.1	923.8	945.7	985.2
42.5°	1418.0	1433.8	1373.6	1295.8	1228.4	1149.9	1080.6	1064.3	1025.9	1056.9	1123.2
45°	1523.8	1523.2	1482.5	1418.0	1376.7	1300.7	1207.1	1187.6	1146.3	1187.6	1276.3
47.5°	1562.0	1571.2	1557.1	1549.3	1534.6	1479.4	1341.4	1323.2	1284.3	1345.7	1427.7
50°	1618.5	1616.2	1616.2	1664.8	1706.7	1695.1	1498.8	1472.6	1431.9	1505.5	1623.4
52.5°	1633.1	1611.2	1645.3	1738.3	1871.4	1881.1	1681.7	1667.2	1618.5	1690.3	1835.6
55°	1592.4	1586.9	1641.0	1775.9	1985.6	2054.9	1893.9	1873.8	1819.1	1880.5	2064.7
57.5°	1501.3	1515.2	1602.1	1768.1	2064.7	2208.1	2126.7	2098.1	2019.7	2056.7	2292.0
60°	1405.8	1412.5	1527.4	1740.1	2086.0	2314.5	2371.0	2354.6	2220.3	2242.1	2460.4
62.5°	1300.1	1284.3	1403.4	1717.0	2062.3	2460.9	2608.0	2595.3	2436.7	2429.9	2580.1
65°	1004.6	1026.5	1128.1	1419.2	1899.9	2575.2	2890.7	2874.3	2678.0	2585.0	2567.3
67.5°	645.5	641.2	712.9	948.8	1419.9	2340.6	3038.4	3056.6	2815.9	2654.9	2391.0
70°	231.6	238.2	265.0	431.0	778.6	1559.6	2678.6	2769.1	2714.4	2524.1	1946.2
72.5°	141.0	141.0	160.5	193.8	315.5	739.7	1909.1	2088.4	2215.4	2079.9	1437.5
75°	110.6	110.0	116.7	133.7	170.2	242.5	1015.0	1153.6	1421.0	1436.8	818.1
77.5°	87.6	87.0	93.6	101.5	127.1	128.3	324.0	421.8	652.1	613.9	292.4
80°	70.5	69.9	74.8	77.2	93.0	88.7	130.0	150.8	228.5	200.6	126.4
82.5°	63.8	63.8	68.6	58.9	64.4	62.6	80.8	86.3	114.9	119.2	76.0
85°	41.3	42.6	64.4	57.2	41.9	38.3	51.7	54.7	71.7	78.4	37.0
87.5°	19.4	21.3	49.2	47.4	27.9	20.7	29.2	31.0	38.9	48.0	21.9
90°	8.8	8.8	13.2	14.8	11.9	10.8	12.1	11.9	13.5	15.2	13.2
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	6.1	6.1
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.4	8.2	7.2	7.2
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.9	10.2	9.2	8.2
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	29.1	26.6	23.5	19.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.5	48.1	43.0	39.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.2	71.6	66.5	62.4
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	97.0	96.2	92.1	89.0
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.0	123.8	121.7	118.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	151.8	153.4	152.4	150.4
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	183.7	186.2	183.1	181.1
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	216.7	219.9	214.8	212.8
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.5	255.7	250.6	248.6
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	286.2	289.5	284.4	282.3
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.6	322.2	317.1	317.1
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.1	353.9	353.9	352.9
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.5	389.7	389.7	387.7
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	421.5	425.5	423.5	423.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	454.2	458.3	457.3	460.3
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.3	485.9	486.9	492.0
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	511.9	513.5	515.6	520.7
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	540.3	545.2	545.2	546.3
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	570.0	574.9	573.9	570.8
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	594.3	598.4	599.4	596.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.3	613.8	616.8	619.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	625.6	628.1	632.2	637.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	641.4	645.5	650.6	652.6
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	659.6	662.9	664.9	664.9
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	674.3	679.2	676.2	675.1
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	683.1	686.4	685.4	683.3
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	688.4	692.5	695.6	693.6
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	694.8	699.7	703.8	703.8
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.4	704.8	709.9	712.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.4	707.9	709.9	712.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	706.9	711.0	712.0	709.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	711.0	715.0	717.1	714.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2
2.5°	555.0	553.7	554.3	555.0	555.6	557.3	557.9	557.9	557.9	557.3	558.5
5°	548.2	547.0	547.0	548.8	550.7	553.1	556.7	559.8	561.0	561.6	561.6
7.5°	540.9	539.7	540.3	543.4	546.4	548.2	551.9	553.7	558.5	558.5	559.8
10°	536.0	537.3	537.9	540.9	543.4	543.4	542.8	541.6	540.3	543.4	542.2
12.5°	533.1	534.9	534.3	537.9	539.1	534.3	526.9	517.2	516.0	517.2	518.4
15°	531.8	531.8	533.7	533.7	527.5	517.8	508.7	509.3	510.6	514.2	514.2
17.5°	531.8	532.4	533.7	529.4	518.4	509.9	508.1	506.3	499.6	497.8	495.9
20°	536.0	534.9	536.0	528.1	518.4	511.8	497.8	484.4	471.7	466.2	463.7
22.5°	546.4	544.6	544.0	536.0	524.0	501.5	474.0	453.4	431.6	424.2	421.8
25°	564.7	564.1	559.8	554.3	520.3	476.5	441.9	409.1	385.3	372.6	373.2
27.5°	596.9	596.9	594.4	570.1	501.5	445.5	398.7	365.3	340.9	328.8	327.0
30°	645.5	646.7	647.9	574.4	471.7	400.0	351.3	328.8	314.3	305.1	304.5
32.5°	705.6	712.4	704.4	569.5	431.0	344.6	314.3	306.4	299.0	293.0	292.4
35°	785.3	803.5	753.7	550.0	385.3	306.9	291.7	286.2	280.8	276.5	277.1
37.5°	892.2	909.9	785.3	517.2	327.0	285.7	279.0	270.5	262.0	252.9	251.6
40°	1018.7	1013.2	796.2	455.2	290.5	275.4	266.2	255.2	240.7	227.3	224.8
42.5°	1145.1	1108.6	787.1	378.7	266.8	266.2	253.5	239.5	224.8	213.3	213.3
45°	1286.7	1192.5	759.1	306.9	248.0	256.5	240.7	226.1	212.8	204.2	203.6
47.5°	1420.4	1270.9	712.9	255.8	229.1	243.8	231.0	217.6	204.8	197.5	195.7
50°	1577.2	1360.2	677.7	221.3	210.9	231.0	225.5	213.3	201.2	192.6	191.5
52.5°	1735.8	1447.2	650.9	197.5	194.5	221.3	223.1	215.7	203.0	186.6	185.4
55°	1901.8	1555.9	597.5	178.7	179.9	213.9	226.1	220.7	211.5	184.7	183.5
57.5°	2041.0	1656.3	503.9	165.9	168.4	208.5	227.3	217.0	206.6	186.0	184.1
60°	2149.7	1724.9	369.5	155.6	158.0	202.4	221.9	204.2	190.9	186.0	182.9
62.5°	2183.2	1727.4	245.5	143.4	150.2	192.1	212.2	197.5	181.8	184.1	182.9
65°	2099.3	1636.2	175.6	131.9	143.4	179.9	207.9	190.9	177.5	187.2	186.0
67.5°	1841.0	1378.5	141.0	122.8	134.3	167.2	200.0	184.7	173.8	193.8	190.3
70°	1434.4	988.9	119.7	113.6	124.6	155.0	189.0	178.1	169.0	188.4	183.5
72.5°	945.7	582.3	105.8	105.2	113.0	144.6	176.9	172.0	161.1	170.8	163.5
75°	493.6	269.9	91.8	95.4	100.2	135.5	165.9	161.1	148.9	152.5	150.2
77.5°	193.8	126.4	79.6	83.9	89.3	122.1	151.9	147.1	136.8	133.7	133.1
80°	106.4	85.1	66.3	71.7	75.4	110.0	137.4	131.9	120.9	119.2	117.3
82.5°	67.5	55.3	54.7	58.3	63.2	97.9	123.4	114.9	105.8	124.6	100.9
85°	31.6	32.8	38.9	43.8	49.2	83.3	107.6	98.5	89.3	87.0	77.2
87.5°	17.6	21.9	25.6	29.8	34.1	58.3	85.1	76.6	66.9	57.2	58.9
90°	11.5	11.5	16.5	15.9	14.4	15.7	50.1	45.8	40.6	20.9	15.4
92.5°	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1	5.1	4.1	4.1
95°	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2	6.1	5.1	5.1
97.5°	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2	8.2	7.2	7.2
100°	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2	9.2	8.2	8.2
102.5°	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4	13.3	11.3	11.3
105°	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8	27.6	22.5	21.5
107.5°	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3	50.1	43.0	41.9
110°	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	75.7	69.6	67.5



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	108.4	101.3	101.3
115°	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	150.4	142.2	143.2
117.5°	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	193.3	188.2	188.2
120°	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	231.2	228.1	230.2
122.5°	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	267.0	266.0	269.0
125°	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	302.8	300.7	304.8
127.5°	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	336.6	336.6	337.6
130°	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	370.3	369.3	371.3
132.5°	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	402.0	403.0	405.1
135°	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	435.8	435.8	438.8
137.5°	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	469.5	467.5	470.6
140°	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	498.2	496.1	499.2
142.5°	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	528.9	526.8	529.9
145°	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	556.5	558.5	562.6
147.5°	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	584.1	585.1	588.2
150°	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	606.6	605.6	608.7
152.5°	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	622.0	622.0	625.0
155°	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	639.3	639.3	643.4
157.5°	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	657.8	657.8	660.8
160°	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	674.1	675.1	678.2
162.5°	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	684.4	684.4	688.4
165°	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	691.5	693.6	696.6
167.5°	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	699.7	702.8	705.8
170°	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	707.9	711.0	714.0
172.5°	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	711.0	713.0	715.0
175°	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	713.0	714.0	716.1
177.5°	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	716.1	721.2	723.2
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1

(END OF REPORT)