

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: P226426

Luminaire Tested: **IST-AF-800-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226426
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-800-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: 5926.6 lumens
Efficiency: N/A
Efficacy: 98.4 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

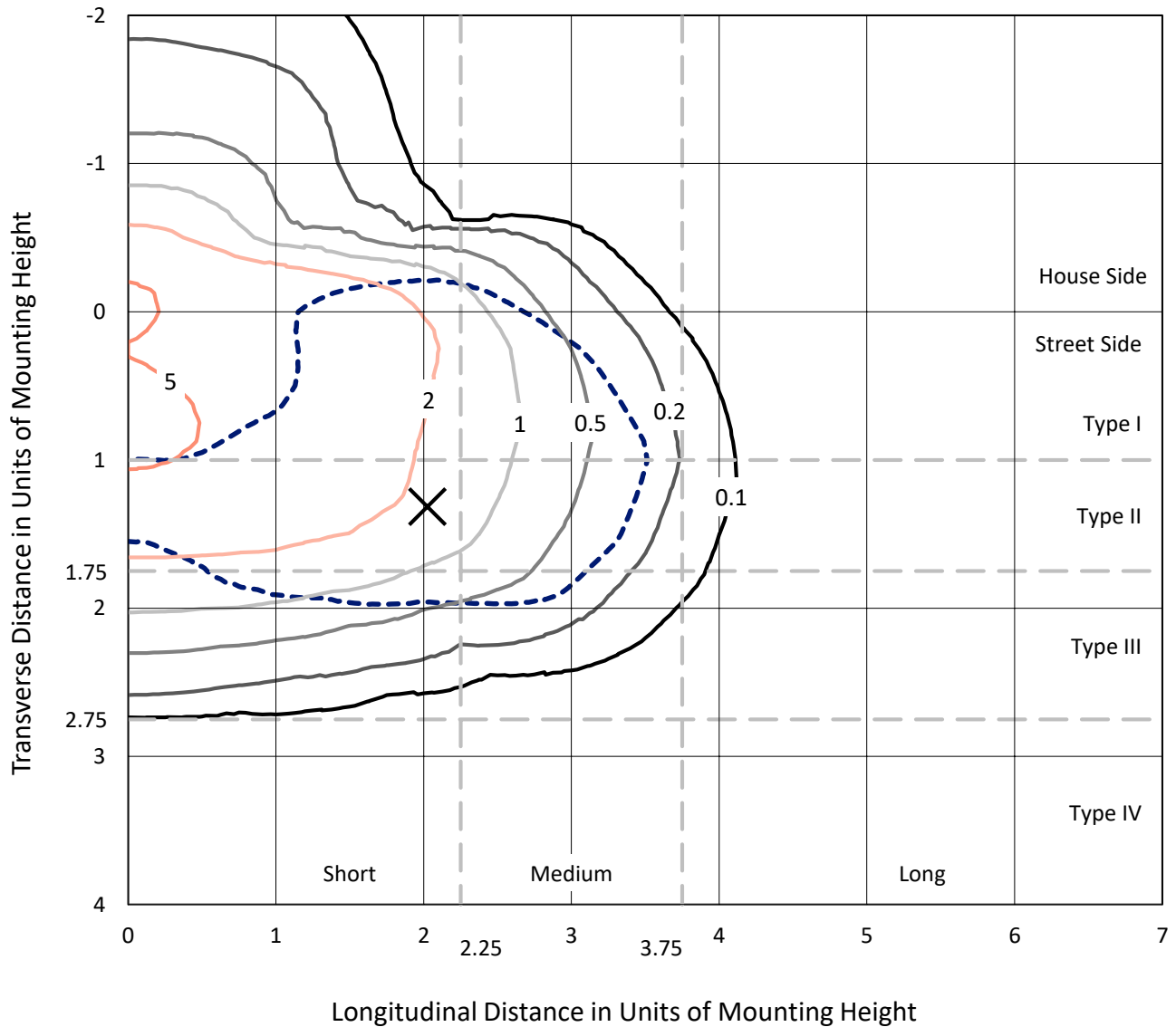
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

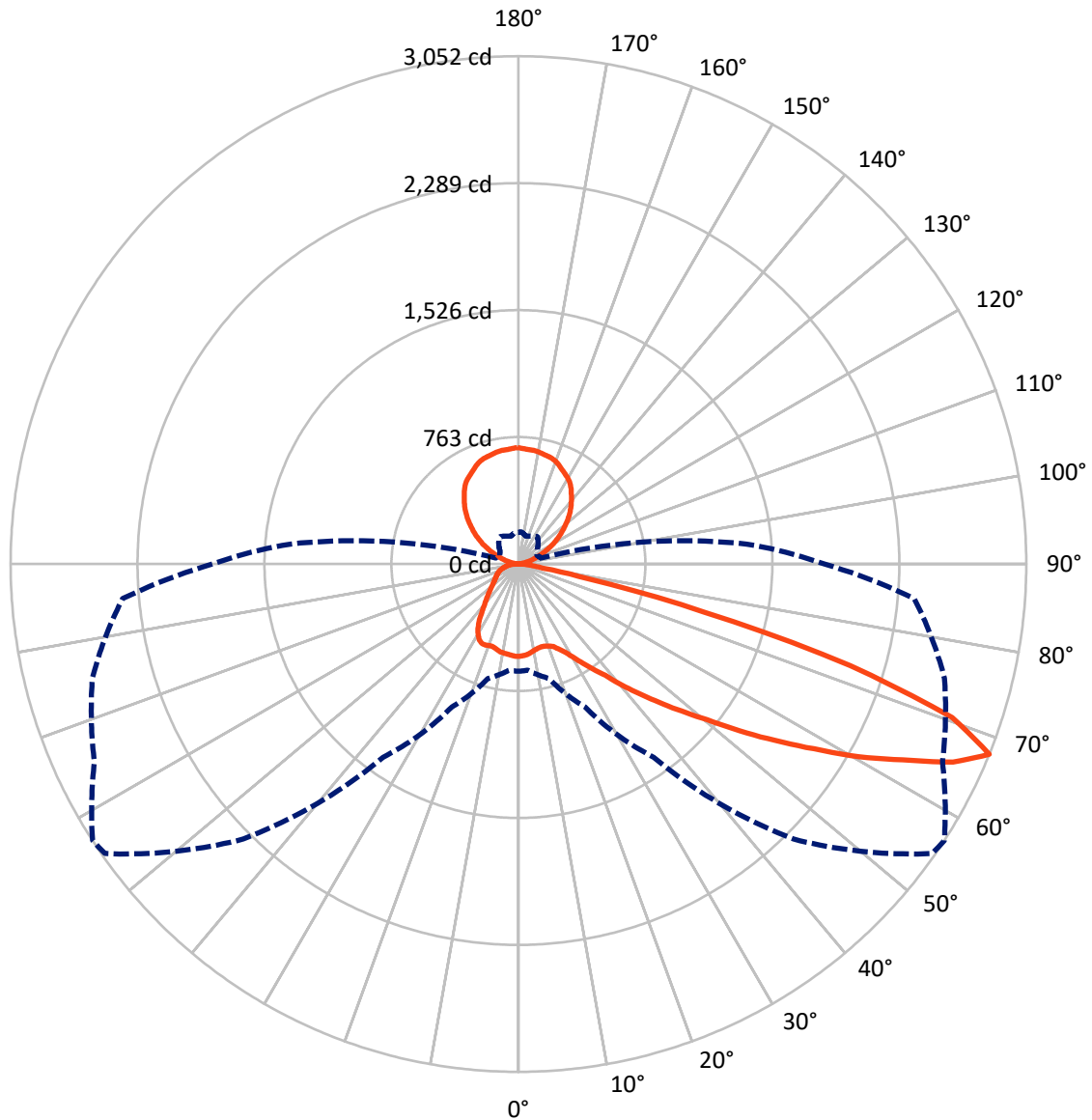
✕ Max cd
 - - - 1/2 Max cd



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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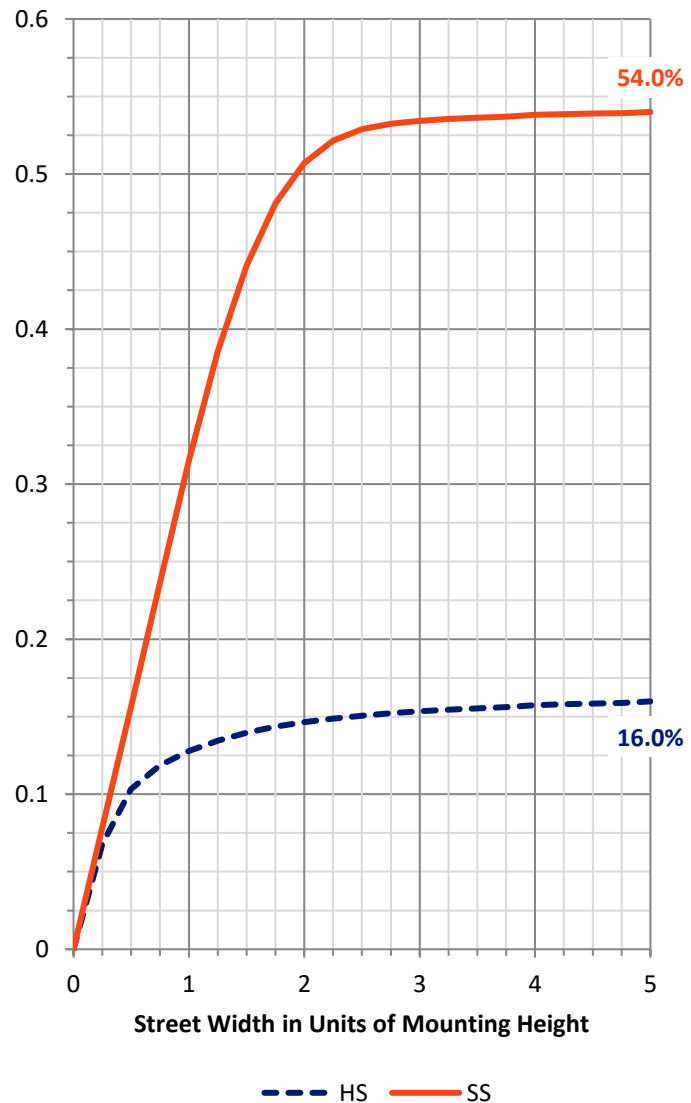
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.7	868.8	1844.5
	% Fixture	16.5	14.7	31.1
Street Side	Lumens	3214.2	867.9	4082.1
	% Fixture	54.2	14.6	68.9
Total	Lumens	4189.9	1736.7	5926.6
	% Fixture	70.7	29.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	0.9
10°-20°	149.3	2.5
20°-30°	256.9	4.3
30°-40°	417.7	7.0
40°-50°	673.7	11.4
50°-60°	1004.4	16.9
60°-70°	1131.2	19.1
70°-80°	436.1	7.4
80°-90°	68.6	1.2
90°-100°	10.8	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.8
120°-130°	273.2	4.6
130°-140°	336.8	5.7
140°-150°	344.6	5.8
150°-160°	290.3	4.9
160°-170°	191.2	3.2
170°-180°	66.3	1.1
0°-90°	4189.9	70.7
0°-180°	5926.6	100.0



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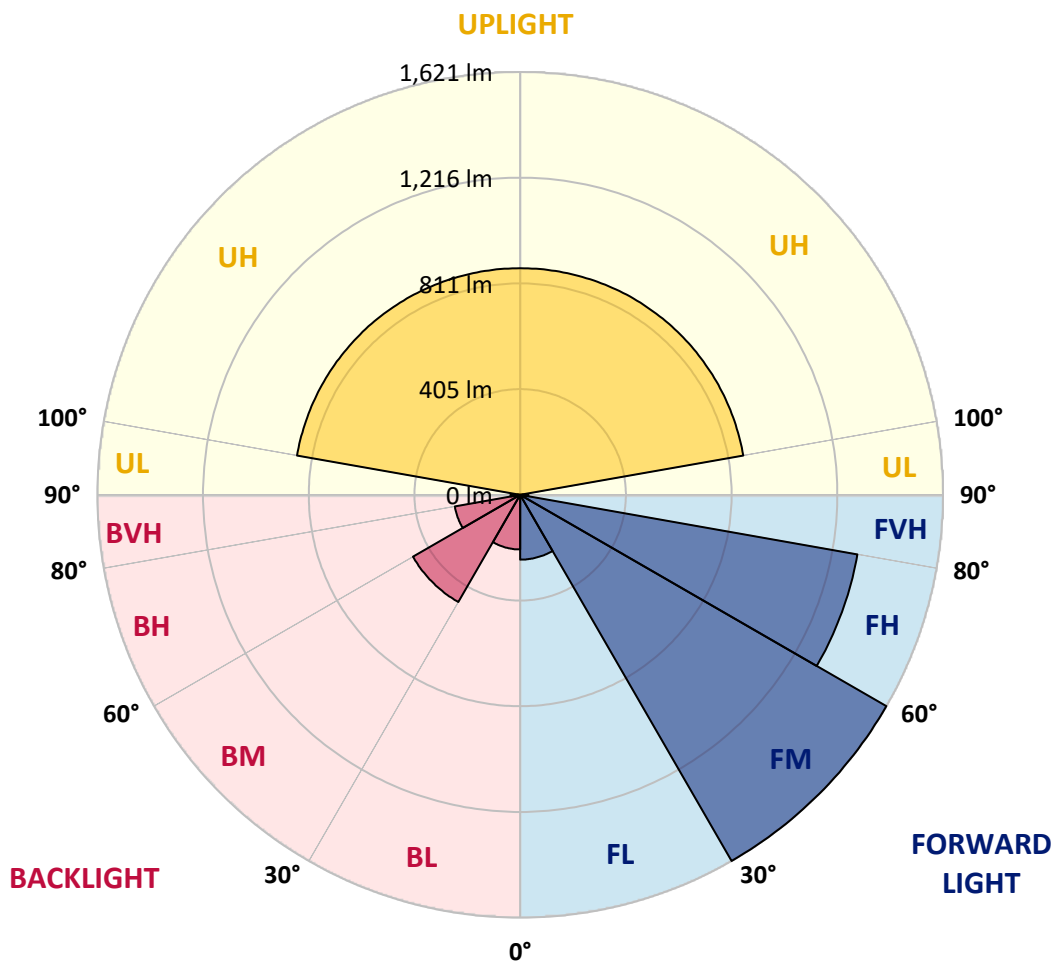
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.6	4.2			
FM	(30°-60°)	1621.2	27.4			
FH	(60°-80°)	1312.9	22.2			G1/1800
FVH	(80°-90°)	31.5	0.5			G1/100
BL	(0°-30°)	209.5	3.5	B1/500		
BM	(30°-60°)	474.6	8.0	B1/1000		
BH	(60°-80°)	254.5	4.3	B1/500		G1/500
BVH	(80°-90°)	37.1	0.6			G1/100
UL	(90°-100°)	10.8	0.2		U2/50	
UH	(100°-180°)	868.8	14.7		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°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	551.1	552.3	553.5	552.9	552.9	552.9	552.9	551.7	553.5	553.5	552.3
5°	542.0	542.6	543.2	544.4	545.6	546.8	547.4	547.4	548.0	547.4	546.2
7.5°	528.6	529.2	531.6	531.6	532.9	535.3	536.5	537.7	539.5	539.5	538.9
10°	524.4	524.4	524.4	522.5	523.8	524.4	526.2	526.2	531.0	533.5	534.7
12.5°	529.2	528.6	528.6	523.8	519.5	517.7	519.5	520.1	525.6	529.2	531.6
15°	540.1	540.1	538.9	531.6	523.1	516.5	515.9	515.9	520.1	525.6	529.8
17.5°	565.6	568.1	559.6	548.0	534.1	523.1	518.9	518.3	521.3	525.6	529.8
20°	614.2	613.6	600.8	580.2	555.9	537.7	527.4	526.2	525.6	528.0	532.9
22.5°	671.8	669.4	654.2	628.1	594.8	561.4	541.4	538.9	534.1	535.9	542.6
25°	733.7	734.3	715.5	681.5	639.7	599.6	569.3	566.8	556.5	555.3	562.6
27.5°	795.6	803.5	778.0	745.9	696.1	648.2	603.9	600.2	591.1	588.1	595.4
30°	886.1	883.0	851.5	809.6	759.8	699.8	657.3	650.6	632.4	636.6	644.5
32.5°	962.5	969.2	940.7	890.9	825.4	762.3	713.1	709.5	691.9	696.7	707.6
35°	1056.0	1071.8	1034.2	972.9	909.7	844.8	785.9	776.2	762.3	772.0	780.5
37.5°	1162.8	1170.7	1141.6	1062.7	998.3	930.4	863.6	848.4	833.3	853.3	868.5
40°	1264.8	1277.5	1239.9	1173.1	1098.5	1033.5	960.7	957.7	922.5	944.3	983.8
42.5°	1415.9	1431.7	1371.6	1293.9	1226.5	1148.3	1079.1	1062.7	1024.4	1055.4	1121.6
45°	1521.5	1520.9	1480.2	1415.9	1374.6	1298.8	1205.3	1185.9	1144.6	1185.9	1274.5
47.5°	1559.7	1568.8	1554.9	1547.0	1532.4	1477.2	1339.4	1321.2	1282.4	1343.7	1425.6
50°	1616.2	1613.7	1613.7	1662.3	1704.2	1692.6	1496.6	1470.5	1429.9	1503.3	1621.0
52.5°	1630.7	1608.9	1642.9	1735.7	1868.6	1878.4	1679.3	1664.7	1616.2	1687.8	1832.8
55°	1590.1	1584.6	1638.6	1773.4	1982.7	2051.9	1891.1	1871.1	1816.5	1877.7	2061.6
57.5°	1499.0	1513.0	1599.8	1765.5	2061.6	2204.9	2123.5	2095.0	2016.7	2053.7	2288.6
60°	1403.8	1410.4	1525.1	1737.6	2082.9	2311.1	2367.5	2351.1	2217.0	2238.9	2456.7
62.5°	1298.2	1282.4	1401.3	1714.5	2059.2	2457.3	2604.2	2591.5	2433.1	2426.4	2576.3
65°	1003.2	1025.1	1126.4	1417.1	1897.2	2571.4	2886.4	2870.0	2674.0	2581.1	2563.5
67.5°	644.5	640.3	711.9	947.4	1417.7	2337.2	3033.9	3052.1	2811.8	2650.9	2387.5
70°	231.2	237.9	264.6	430.3	777.4	1557.3	2674.6	2765.0	2710.4	2520.5	1943.3
72.5°	140.8	140.8	160.2	193.6	315.0	738.6	1906.3	2085.3	2212.1	2076.8	1435.3
75°	110.5	109.8	116.5	133.5	169.9	242.2	1013.5	1151.9	1418.9	1434.7	816.9
77.5°	87.4	86.8	93.5	101.4	126.8	128.1	323.5	421.2	651.2	613.0	291.9
80°	70.4	69.8	74.6	77.1	92.9	88.6	129.9	150.5	228.2	200.3	126.2
82.5°	63.7	63.7	68.6	58.9	64.3	62.5	80.7	86.2	114.7	119.0	75.9
85°	41.3	42.5	64.3	57.0	41.9	38.2	51.6	54.6	71.6	78.3	37.0
87.5°	19.4	21.2	49.2	47.3	27.9	20.6	29.1	31.0	38.8	47.9	21.8
90°	8.6	8.6	13.1	14.7	11.6	10.6	11.9	11.6	13.2	15.1	13.1
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°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	554.1	552.9	553.5	554.1	554.7	556.5	557.1	557.1	557.1	556.5	557.7
5°	547.4	546.2	546.2	548.0	549.9	552.3	555.9	559.0	560.2	560.8	560.8
7.5°	540.1	538.9	539.5	542.6	545.6	547.4	551.1	552.9	557.7	557.7	559.0
10°	535.3	536.5	537.1	540.1	542.6	542.6	542.0	540.7	539.5	542.6	541.4
12.5°	532.3	534.1	533.5	537.1	538.3	533.5	526.2	516.5	515.3	516.5	517.7
15°	531.0	531.0	532.9	532.9	526.8	517.1	508.0	508.6	509.8	513.4	513.4
17.5°	531.0	531.6	532.9	528.6	517.7	509.2	507.4	505.5	498.9	497.1	495.2
20°	535.3	534.1	535.3	527.4	517.7	511.0	497.1	483.7	471.0	465.5	463.1
22.5°	545.6	543.8	543.2	535.3	523.1	500.7	473.4	452.7	430.9	423.6	421.2
25°	563.8	563.2	559.0	553.5	519.5	475.8	441.2	408.4	384.8	372.0	372.6
27.5°	596.0	596.0	593.5	569.3	500.7	444.9	398.1	364.7	340.5	328.3	326.5
30°	644.5	645.7	647.0	573.5	471.0	399.3	350.8	328.3	313.8	304.7	304.1
32.5°	704.6	711.3	703.4	568.7	430.3	344.1	313.8	305.9	298.6	292.5	291.9
35°	784.1	802.3	752.6	549.2	384.8	306.5	291.3	285.8	280.4	276.1	276.7
37.5°	890.9	908.5	784.1	516.5	326.5	285.2	278.6	270.1	261.6	252.5	251.3
40°	1017.2	1011.7	795.0	454.6	290.1	274.9	265.8	254.9	240.3	227.0	224.6
42.5°	1143.4	1107.0	785.9	378.1	266.4	265.8	253.1	239.1	224.6	213.0	213.0
45°	1284.8	1190.7	758.0	306.5	247.6	256.1	240.3	225.8	212.4	203.9	203.3
47.5°	1418.3	1269.0	711.9	255.5	228.8	243.4	230.6	217.3	204.5	197.2	195.4
50°	1574.9	1358.2	676.7	220.9	210.6	230.6	225.2	213.0	200.9	192.4	191.2
52.5°	1733.3	1445.0	650.0	197.2	194.2	220.9	222.7	215.4	202.7	186.3	185.1
55°	1899.0	1553.7	596.6	178.4	179.6	213.6	225.8	220.3	211.2	184.5	183.3
57.5°	2038.0	1653.8	503.1	165.7	168.1	208.2	227.0	216.7	206.3	185.7	183.9
60°	2146.6	1722.4	369.0	155.4	157.8	202.1	221.5	203.9	190.6	185.7	182.7
62.5°	2180.0	1724.8	245.2	143.2	149.9	191.8	211.8	197.2	181.5	183.9	182.7
65°	2096.2	1633.8	175.4	131.7	143.2	179.6	207.6	190.6	177.2	186.9	185.7
67.5°	1838.3	1376.4	140.8	122.6	134.1	166.9	199.7	184.5	173.6	193.6	190.0
70°	1432.3	987.4	119.6	113.5	124.4	154.8	188.7	177.8	168.7	188.1	183.3
72.5°	944.3	581.4	105.6	105.0	112.9	144.4	176.6	171.8	160.8	170.5	163.3
75°	492.8	269.5	91.6	95.3	100.1	135.3	165.7	160.8	148.7	152.3	149.9
77.5°	193.6	126.2	79.5	83.8	89.2	122.0	151.7	146.9	136.6	133.5	132.9
80°	106.2	85.0	66.2	71.6	75.3	109.8	137.2	131.7	120.8	119.0	117.1
82.5°	67.4	55.2	54.6	58.3	63.1	97.7	123.2	114.7	105.6	124.4	100.7
85°	31.6	32.8	38.8	43.7	49.2	83.1	107.4	98.3	89.2	86.8	77.1
87.5°	17.6	21.8	25.5	29.7	34.0	58.3	85.0	76.5	66.8	57.0	58.9
90°	11.2	11.2	16.3	15.7	14.3	15.5	49.9	45.6	40.4	20.8	15.3
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)