

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: P385440

Luminaire Tested: **GWC-SA1A-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1A-727-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3085 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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: 24 FT



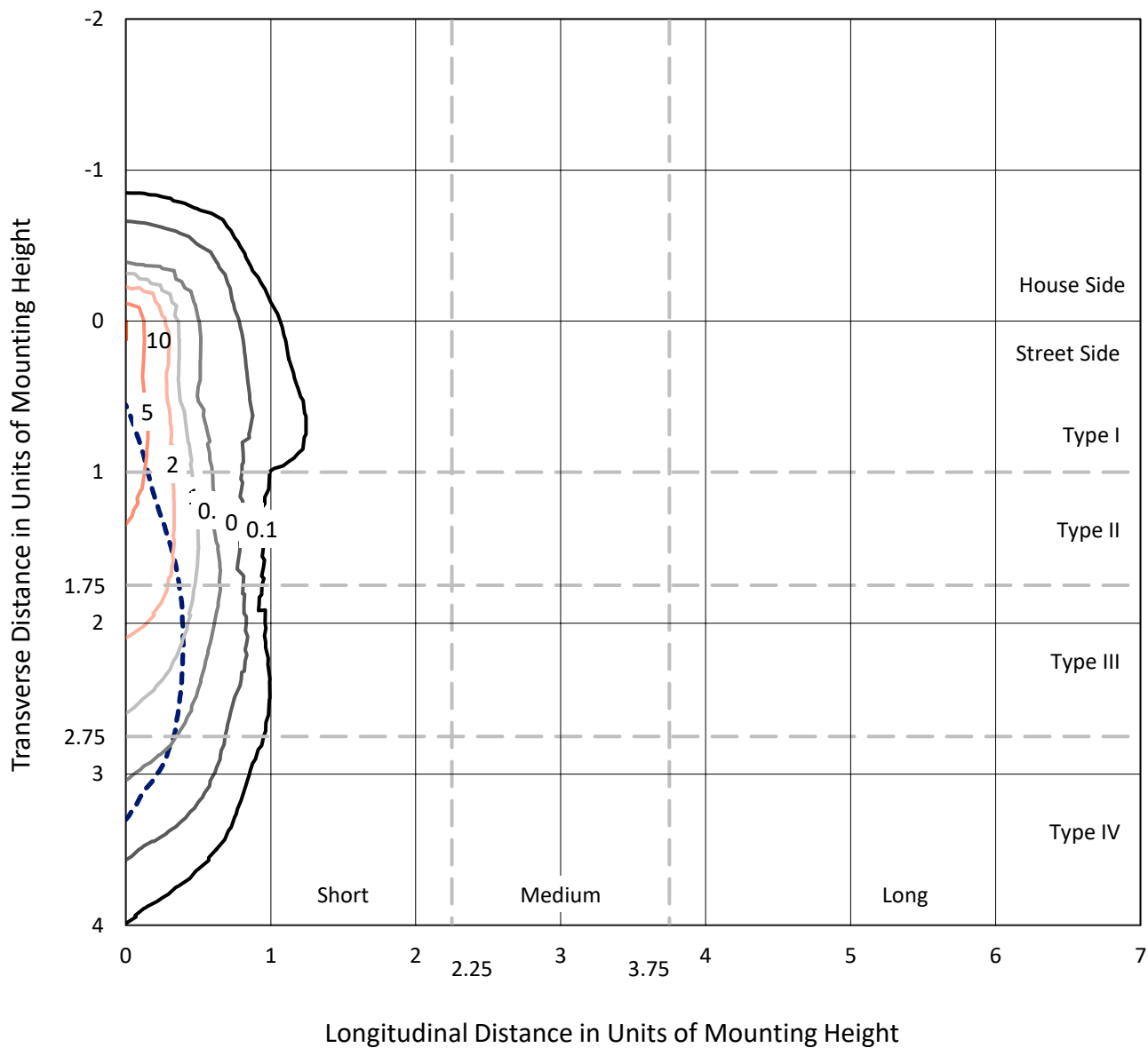
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



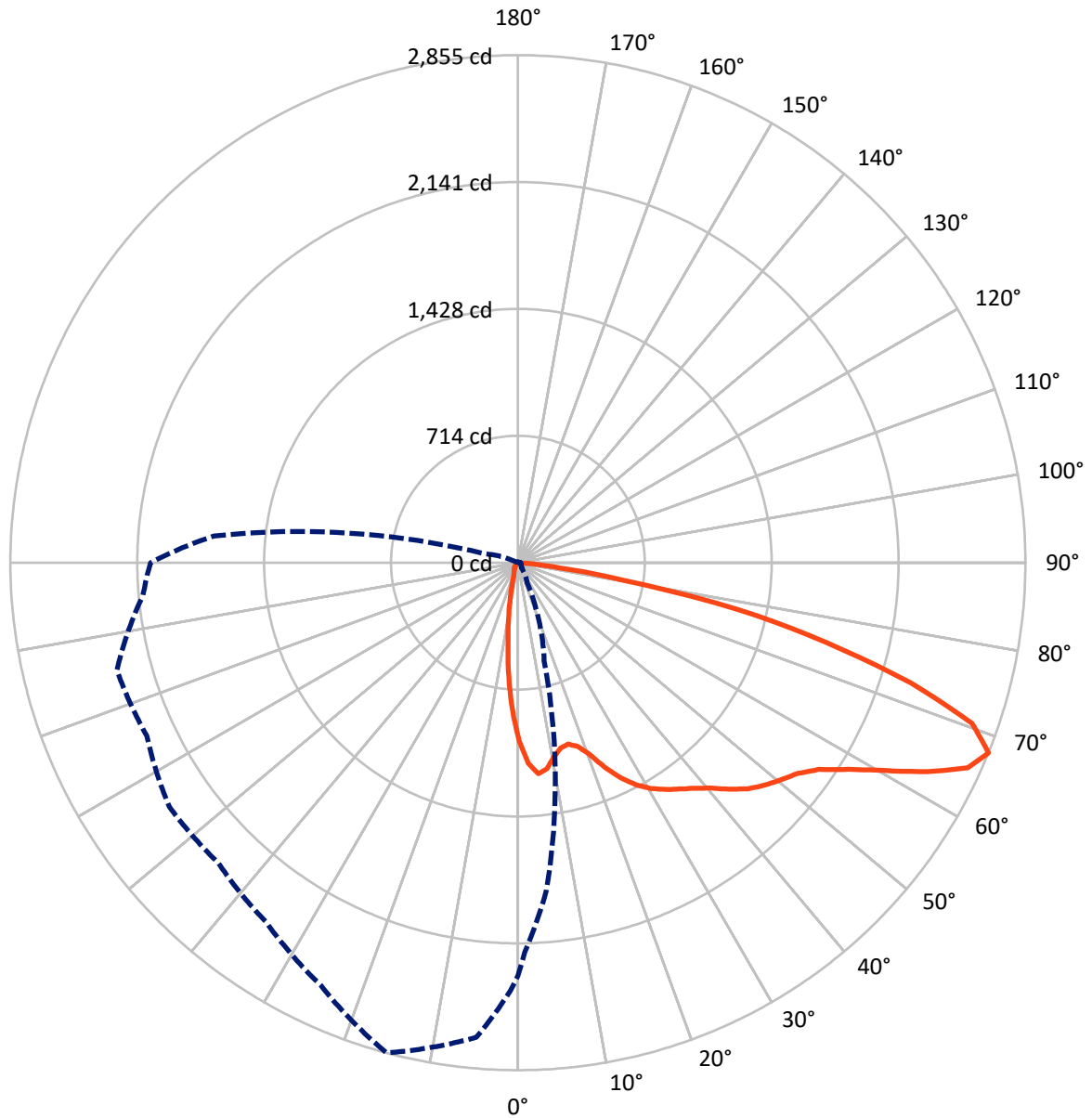
Based on 10 foot mounting height. Maximum calculated value = 10 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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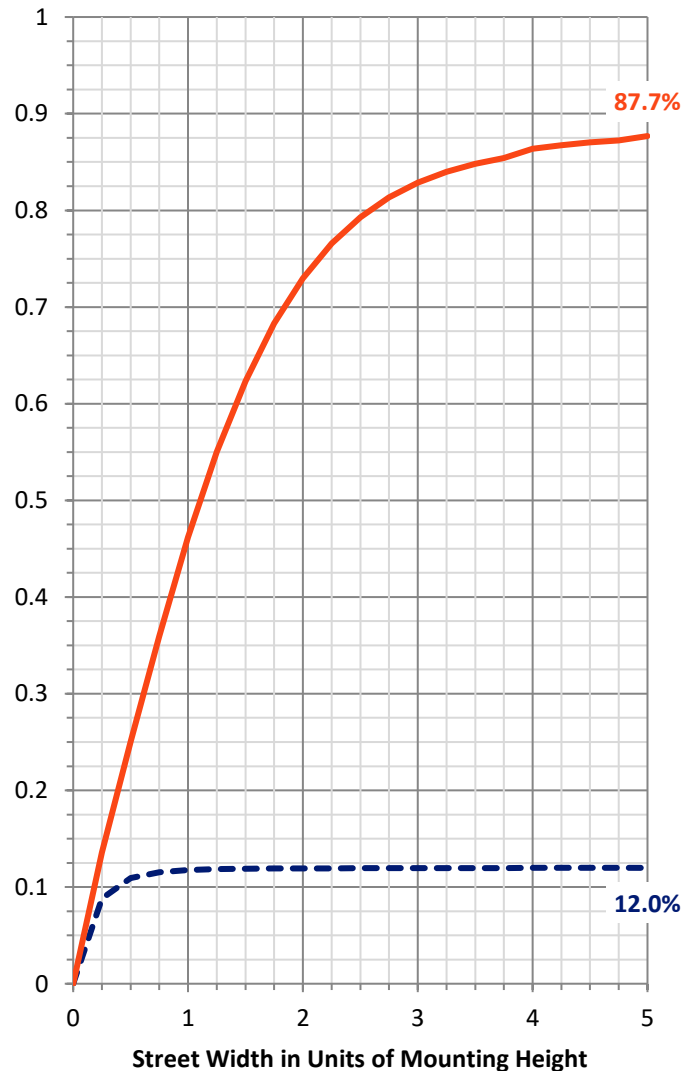
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	373.4	0.0	373.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	2711.6	0.0	2711.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	3085.0	0.0	3085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	2.5
10°-20°	153.5	5.0
20°-30°	218.0	7.1
30°-40°	322.0	10.4
40°-50°	464.4	15.1
50°-60°	651.9	21.1
60°-70°	759.9	24.6
70°-80°	388.5	12.6
80°-90°	49.6	1.6
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°	3085.0	100.0
0°-180°	3085.0	100.0



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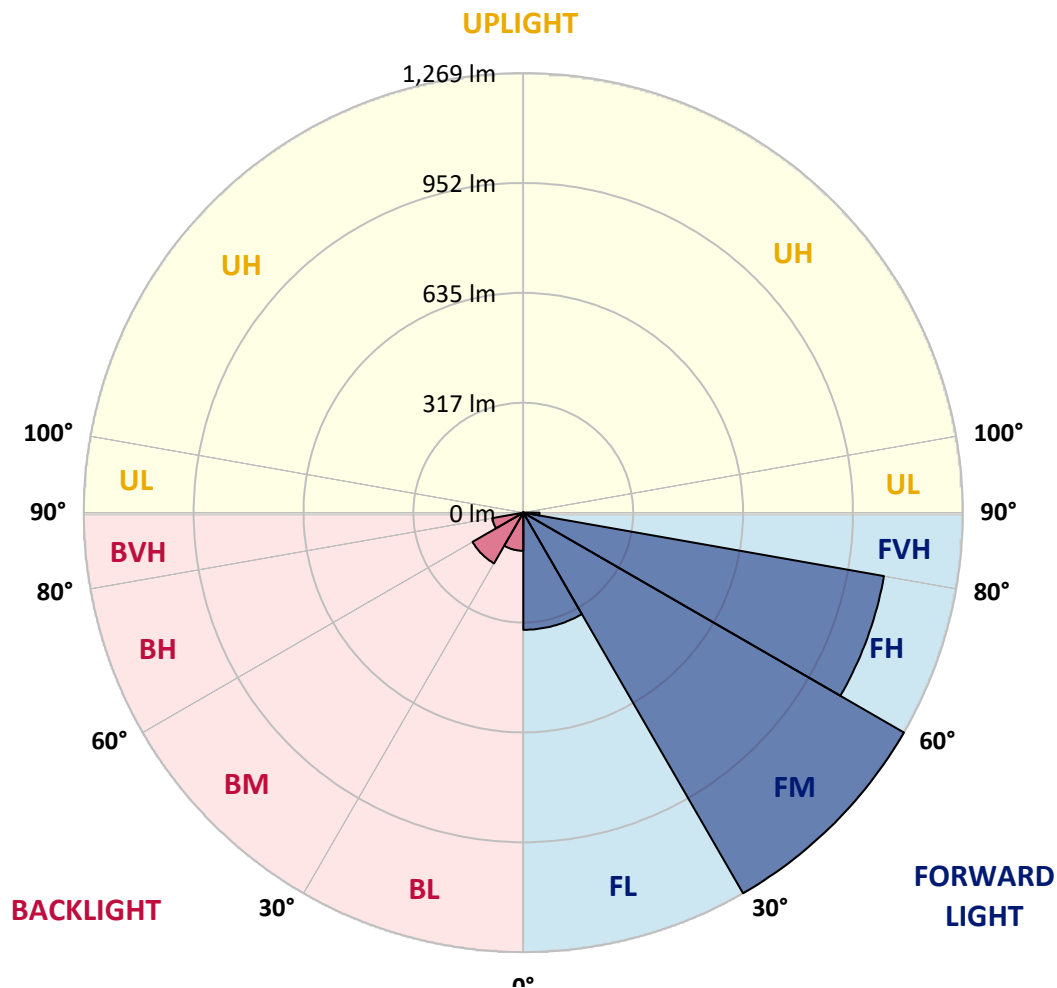
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.4	11.0			
FM	(30°-60°)	1269.2	41.1			
FH	(60°-80°)	1057.4	34.3			G1/1800
FVH	(80°-90°)	46.6	1.5			G1/100
BL	(0°-30°)	110.3	3.6	B1/500		
BM	(30°-60°)	169.1	5.5	B0/220		
BH	(60°-80°)	91.0	2.9	B0/110		G0/110
BVH	(80°-90°)	3.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9
2.5°	1100.4	1091.9	1082.5	1052.0	1023.6	991.2	964.7	946.3	923.2	893.3	885.7
5°	1092.5	1083.4	1054.0	986.1	926.6	868.7	812.9	780.2	739.5	698.3	688.1
7.5°	1013.1	1003.6	961.2	868.1	788.0	704.4	632.0	587.1	541.2	503.5	483.5
10°	930.5	920.2	872.5	759.5	660.9	585.3	532.1	489.3	445.9	405.6	373.4
12.5°	873.7	860.1	808.4	680.3	594.4	543.1	493.4	442.1	383.4	340.1	304.7
15°	849.9	834.4	779.7	649.8	570.9	510.7	445.9	382.9	314.1	264.5	232.1
17.5°	868.3	848.1	789.5	647.7	541.3	459.4	377.5	303.6	228.9	178.7	155.7
20°	930.8	904.4	830.0	647.2	505.5	398.4	294.6	211.0	150.8	121.3	109.2
22.5°	1029.3	994.4	888.2	651.8	468.6	334.4	212.8	143.4	113.3	97.9	90.8
25°	1148.3	1107.8	971.9	668.3	436.1	272.1	154.6	113.3	95.6	84.3	78.3
27.5°	1261.4	1228.5	1077.7	692.2	411.0	221.9	125.5	96.0	81.7	74.2	69.4
30°	1374.4	1333.0	1186.3	720.5	380.7	187.8	110.3	87.5	73.2	65.3	62.3
32.5°	1456.5	1422.2	1271.4	741.0	348.4	165.6	98.7	80.1	68.4	60.4	55.8
35°	1553.1	1514.3	1344.3	745.5	327.7	151.6	88.7	72.1	59.3	52.2	47.4
37.5°	1657.5	1609.1	1428.5	735.6	311.4	144.7	81.3	68.4	55.4	48.1	43.0
40°	1773.0	1718.3	1509.3	721.3	295.5	142.4	75.6	65.6	52.3	44.9	39.6
42.5°	1894.6	1830.1	1579.3	706.2	285.4	134.3	75.0	62.8	50.0	41.9	36.7
45°	1996.7	1931.4	1651.2	701.2	278.3	125.5	77.5	60.9	48.4	39.6	34.5
47.5°	2078.1	2016.3	1724.9	712.3	274.2	117.5	70.6	63.4	47.5	37.6	32.6
50°	2175.3	2105.3	1828.6	745.5	268.2	109.5	63.9	72.6	47.5	36.2	31.0
52.5°	2297.2	2227.9	1944.4	797.0	256.2	98.4	57.4	72.8	47.9	34.5	28.9
55°	2450.5	2400.2	2109.7	853.4	237.1	82.0	49.7	62.6	46.2	31.3	27.0
57.5°	2597.5	2556.5	2260.4	892.0	211.5	64.0	43.3	50.4	42.2	27.5	24.1
59°	2637.7	2592.9	2315.6	893.7	192.3	55.8	40.0	41.7	41.4	25.7	22.4
60°	2637.7	2590.1	2331.5	884.4	178.5	51.3	38.0	37.1	43.1	24.6	21.3
62.5°	2589.9	2523.0	2279.8	821.1	145.6	43.7	33.2	30.7	38.7	22.1	18.9
65°	2490.6	2393.1	2103.5	706.6	129.8	40.0	28.6	25.1	26.9	19.4	16.5
67.5°	2324.8	2192.7	1849.4	570.9	123.5	39.0	24.7	21.3	20.3	16.7	14.5
70°	2033.0	1886.4	1540.9	448.8	118.1	38.6	20.8	18.0	16.4	14.0	12.3
72.5°	1479.6	1326.8	1093.9	350.9	114.9	39.5	16.7	15.1	13.4	11.0	9.5
75°	846.4	746.2	614.9	231.8	97.9	37.7	12.9	12.6	9.6	7.9	6.6
77.5°	437.3	424.0	368.4	89.0	46.9	16.5	8.5	7.3	5.7	4.8	3.9
80°	188.7	186.6	161.5	25.7	12.4	9.2	4.8	3.1	2.6	2.0	1.6
82.5°	65.2	65.2	57.4	8.6	5.6	4.5	0.6	0.0	0.0	0.0	0.0
85°	13.2	14.8	10.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9
2.5°	876.5	858.8	857.6	846.5	832.6	826.3	822.7	829.1	837.0	837.9	849.7
5°	680.3	661.8	669.5	649.8	653.7	649.8	643.4	644.5	648.0	637.1	650.7
7.5°	477.8	463.7	472.7	467.4	474.4	477.2	473.2	467.4	450.1	448.1	459.9
10°	360.1	344.2	334.7	324.7	326.9	331.5	330.0	325.8	314.8	315.4	326.8
12.5°	289.4	271.5	252.7	228.3	222.3	225.7	222.3	219.8	209.3	210.2	220.2
15°	219.5	204.9	185.2	165.6	154.9	155.9	146.6	140.0	133.4	125.5	131.7
17.5°	148.2	139.3	133.4	127.6	114.9	112.0	100.1	87.4	82.4	78.8	81.4
20°	104.9	100.1	97.8	97.5	90.2	86.5	75.0	67.1	64.6	63.9	65.5
22.5°	87.7	84.2	80.8	78.9	75.3	71.0	62.3	58.3	56.6	55.7	56.9
25°	76.3	73.7	70.2	66.9	65.5	60.9	54.7	51.7	50.6	49.7	50.3
27.5°	67.8	65.5	61.4	59.3	58.2	54.2	48.8	46.5	45.5	45.2	45.0
30°	61.1	58.9	55.1	52.8	50.7	47.2	44.0	41.7	40.6	40.3	40.0
32.5°	54.4	52.6	50.1	47.8	45.6	42.4	39.6	37.7	36.1	35.8	35.7
35°	45.9	44.1	42.8	42.7	40.6	37.6	35.5	33.0	31.7	31.3	31.4
37.5°	40.8	38.4	35.5	36.5	36.0	33.8	31.0	28.5	27.2	26.9	26.9
40°	37.6	35.1	31.7	30.0	31.7	31.3	26.9	24.4	23.1	22.9	22.7
42.5°	34.5	32.0	28.2	25.3	26.2	27.5	23.2	20.9	19.6	19.3	18.9
45°	32.3	29.7	25.4	22.1	20.3	23.1	19.9	17.0	16.2	15.6	15.3
47.5°	30.3	27.8	22.9	19.1	16.2	16.7	15.9	13.9	13.0	12.4	12.3
50°	28.5	25.9	20.8	16.4	13.4	12.3	12.9	11.0	10.2	9.6	9.4
52.5°	26.5	24.0	18.4	14.2	11.3	9.6	9.8	8.6	7.9	7.5	7.3
55°	24.8	22.4	16.5	12.4	9.9	7.9	7.0	6.7	6.3	6.0	5.8
57.5°	22.7	20.3	14.6	10.5	8.5	6.4	5.4	5.4	5.3	5.0	4.8
59°	21.3	19.3	13.4	9.5	7.7	5.6	4.8	5.0	4.8	4.5	4.4
60°	20.3	18.4	12.6	8.8	7.3	5.1	4.4	4.7	4.5	4.2	4.1
62.5°	18.0	16.7	10.8	7.3	6.4	4.1	3.7	3.9	3.9	3.8	3.7
65°	15.8	14.3	9.2	6.1	6.0	3.5	2.9	3.5	3.7	3.4	3.1
67.5°	13.7	12.3	8.0	5.0	5.6	2.8	2.2	2.9	3.9	3.1	2.8
70°	11.7	10.2	6.3	3.9	5.8	1.9	1.8	2.6	4.7	3.4	2.6
72.5°	9.1	7.9	4.4	2.9	6.3	1.3	1.3	2.2	5.3	3.7	2.5
75°	6.3	5.1	2.6	1.8	5.1	0.9	0.9	2.0	5.0	3.4	2.3
77.5°	3.7	2.8	0.9	0.1	2.6	0.0	0.1	1.5	3.5	2.0	1.0
80°	1.3	0.6	0.0	0.0	1.6	0.0	0.0	0.0	0.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9
2.5°	852.8	872.5	890.2	917.0	948.7	985.2	1016.6	1050.4	1082.1	1095.3	1104.3
5°	653.4	677.8	706.3	745.7	798.0	862.4	922.8	991.0	1064.4	1101.1	1135.6
7.5°	462.0	486.8	522.2	564.0	627.3	704.0	782.9	877.2	976.6	1034.6	1091.7
10°	332.2	362.7	395.8	452.9	517.2	590.0	671.3	776.5	887.3	951.6	1020.4
12.5°	226.1	260.9	310.9	374.9	450.4	521.8	592.3	692.8	821.4	885.1	958.9
15°	135.6	154.9	207.8	281.9	374.6	463.4	540.8	641.5	778.5	856.6	933.3
17.5°	83.6	92.5	121.3	182.1	279.4	391.8	497.8	624.1	784.7	879.7	961.8
20°	66.6	70.2	79.4	107.6	185.2	312.9	449.4	620.6	834.8	951.7	1039.9
22.5°	57.9	61.2	67.4	78.2	116.5	234.3	403.5	623.8	906.7	1059.7	1162.6
25°	51.0	53.9	59.8	68.7	85.4	165.0	354.4	638.1	1000.4	1193.8	1303.1
27.5°	45.6	48.1	53.5	61.7	73.2	115.2	298.7	655.5	1111.5	1330.8	1438.7
30°	40.6	42.8	47.6	55.2	63.6	88.6	237.6	667.3	1222.7	1438.7	1535.6
32.5°	36.4	38.0	42.4	48.8	55.2	70.6	180.6	665.4	1305.3	1528.4	1605.3
35°	32.0	33.6	37.4	43.0	48.1	58.3	142.1	629.9	1377.2	1621.5	1685.1
37.5°	27.2	29.2	32.9	37.9	41.4	51.3	114.9	587.1	1450.1	1727.9	1774.1
40°	23.1	25.1	28.4	33.8	36.0	48.7	88.3	534.9	1532.1	1846.9	1871.8
42.5°	19.1	21.0	24.4	29.1	33.9	41.9	65.3	475.3	1610.9	1948.6	1960.8
45°	15.5	17.4	20.9	25.6	36.2	34.8	50.6	411.4	1674.4	2033.3	2037.2
47.5°	12.3	14.0	17.7	24.1	33.8	27.8	36.1	361.3	1727.8	2099.3	2088.9
50°	9.5	11.0	14.8	27.6	29.5	22.9	27.3	344.6	1775.6	2140.2	2113.3
52.5°	7.5	8.8	12.1	25.9	22.9	19.0	22.9	360.3	1841.1	2174.1	2127.1
55°	6.0	7.3	9.5	14.8	15.6	16.1	19.6	374.9	1954.0	2253.6	2208.2
57.5°	5.0	6.3	7.7	10.4	11.8	13.6	17.4	376.5	2087.2	2385.8	2342.8
59°	4.5	5.7	7.0	9.2	10.4	12.4	16.4	367.7	2134.1	2433.8	2412.4
60°	4.2	5.4	6.6	8.5	9.6	11.7	15.8	359.4	2136.1	2432.1	2442.0
62.5°	3.7	4.8	5.8	7.2	8.2	9.9	14.2	328.5	2049.6	2352.4	2424.2
65°	3.2	4.2	5.3	6.1	7.0	8.9	12.9	272.3	1901.9	2224.0	2302.2
67.5°	2.9	3.7	4.8	5.4	6.3	7.9	11.4	194.1	1717.3	2066.9	2117.6
70°	2.6	3.5	4.4	5.0	5.7	6.9	9.8	111.5	1450.1	1836.8	1872.9
72.5°	2.5	3.4	3.9	4.7	5.1	6.1	8.9	52.5	1061.8	1471.4	1565.7
75°	2.2	3.1	3.7	4.4	4.8	5.6	7.6	25.1	706.2	1064.9	1172.0
77.5°	1.3	2.5	3.4	3.9	4.2	4.8	6.3	14.5	450.7	737.0	868.1
80°	0.0	0.9	2.5	3.4	3.7	4.1	4.8	11.4	241.1	421.1	505.4
82.5°	0.0	0.0	1.8	2.6	2.5	2.8	3.7	7.2	108.7	275.2	310.1
85°	0.0	0.0	0.6	2.0	1.8	1.3	2.5	2.5	23.8	139.3	173.8
87.5°	0.0	0.0	0.0	0.1	0.9	0.6	1.0	0.3	0.1	10.4	42.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9
2.5°	1136.0	1146.8	1165.1	1173.7	1169.5	1151.5	1130.0	1108.1	1095.3	1100.4
5°	1205.9	1261.6	1293.7	1304.4	1286.6	1246.2	1193.5	1123.9	1099.2	1092.5
7.5°	1205.9	1310.7	1377.0	1388.7	1349.0	1269.9	1171.0	1062.4	1026.3	1013.1
10°	1163.5	1306.1	1398.7	1417.2	1361.7	1243.5	1110.9	987.0	944.1	930.5
12.5°	1115.7	1269.3	1366.8	1392.4	1346.8	1217.1	1069.2	935.9	885.5	873.7
15°	1086.3	1224.0	1304.7	1323.2	1304.0	1201.8	1059.3	920.6	861.3	849.9
17.5°	1096.9	1188.9	1218.0	1228.8	1241.8	1196.4	1086.3	954.2	879.1	868.3
20°	1136.5	1152.0	1136.9	1150.5	1185.6	1201.7	1150.8	1035.5	945.3	930.8
22.5°	1203.7	1132.8	1090.6	1096.0	1138.7	1219.0	1249.3	1151.5	1047.5	1029.3
25°	1282.0	1148.3	1064.9	1060.0	1103.9	1242.0	1339.3	1277.8	1168.3	1148.3
27.5°	1380.5	1183.1	1059.6	1054.8	1091.7	1263.5	1414.2	1402.6	1295.6	1261.4
30°	1456.5	1217.3	1075.2	1064.1	1103.9	1278.4	1474.2	1508.6	1397.1	1374.4
32.5°	1511.1	1257.6	1100.7	1084.6	1138.1	1304.1	1520.6	1605.6	1490.9	1456.5
35°	1552.6	1301.5	1141.7	1115.3	1185.1	1343.1	1564.0	1708.9	1590.7	1553.1
37.5°	1591.4	1363.0	1205.9	1174.3	1258.9	1406.0	1609.9	1826.2	1702.4	1657.5
40°	1645.7	1432.7	1304.8	1276.8	1383.0	1491.6	1667.1	1948.3	1829.4	1773.0
42.5°	1699.9	1507.5	1406.1	1413.7	1537.8	1595.7	1741.1	2077.5	1954.8	1894.6
45°	1749.4	1584.7	1550.4	1585.4	1681.5	1709.8	1814.6	2152.2	2054.9	1996.7
47.5°	1793.6	1681.2	1693.7	1787.1	1844.9	1813.1	1869.6	2216.7	2129.4	2078.1
50°	1844.9	1806.0	1882.7	2014.8	2033.0	1906.7	1919.5	2293.0	2216.5	2175.3
52.5°	1901.0	1937.5	2092.0	2208.5	2202.6	2008.3	1969.8	2378.5	2335.9	2297.2
55°	1964.7	2043.8	2276.3	2389.7	2384.7	2121.7	2053.1	2484.1	2485.6	2450.5
57.5°	2059.3	2135.3	2401.4	2536.3	2544.6	2252.6	2194.3	2602.5	2620.9	2597.5
59°	2127.1	2194.6	2450.9	2597.5	2631.4	2353.9	2297.5	2671.2	2659.1	2637.7
60°	2177.4	2232.3	2475.5	2629.5	2681.9	2422.6	2373.6	2711.5	2663.6	2637.7
62.5°	2301.7	2314.4	2519.8	2665.8	2739.9	2575.2	2587.9	2780.2	2632.2	2589.9
65°	2359.8	2366.3	2519.2	2600.9	2683.8	2694.0	2782.3	2782.3	2555.4	2490.6
67.5°	2335.5	2303.8	2394.2	2385.8	2468.5	2623.4	2855.3	2680.3	2408.7	2324.8
70°	2138.2	2016.2	1976.0	1979.6	2042.9	2281.9	2710.7	2380.1	2131.0	2033.0
72.5°	1779.1	1486.4	1387.1	1500.4	1516.9	1753.7	2310.1	1792.4	1571.6	1479.6
75°	1431.0	1047.8	886.4	1006.0	1034.0	1283.4	1787.0	1116.3	918.0	846.4
77.5°	1028.0	752.1	636.0	627.7	664.0	813.9	1268.0	561.8	468.6	437.3
80°	584.0	495.0	533.0	502.9	521.2	508.9	602.4	246.4	201.8	188.7
82.5°	352.5	292.6	316.9	263.8	333.8	290.7	232.1	78.9	68.5	65.2
85°	229.3	159.9	83.3	55.8	115.0	185.8	51.9	21.5	16.5	13.2
87.5°	79.1	40.8	4.1	1.8	12.3	34.6	1.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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