

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632708

Luminaire Tested: GWS-SA2D-730-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672.4 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

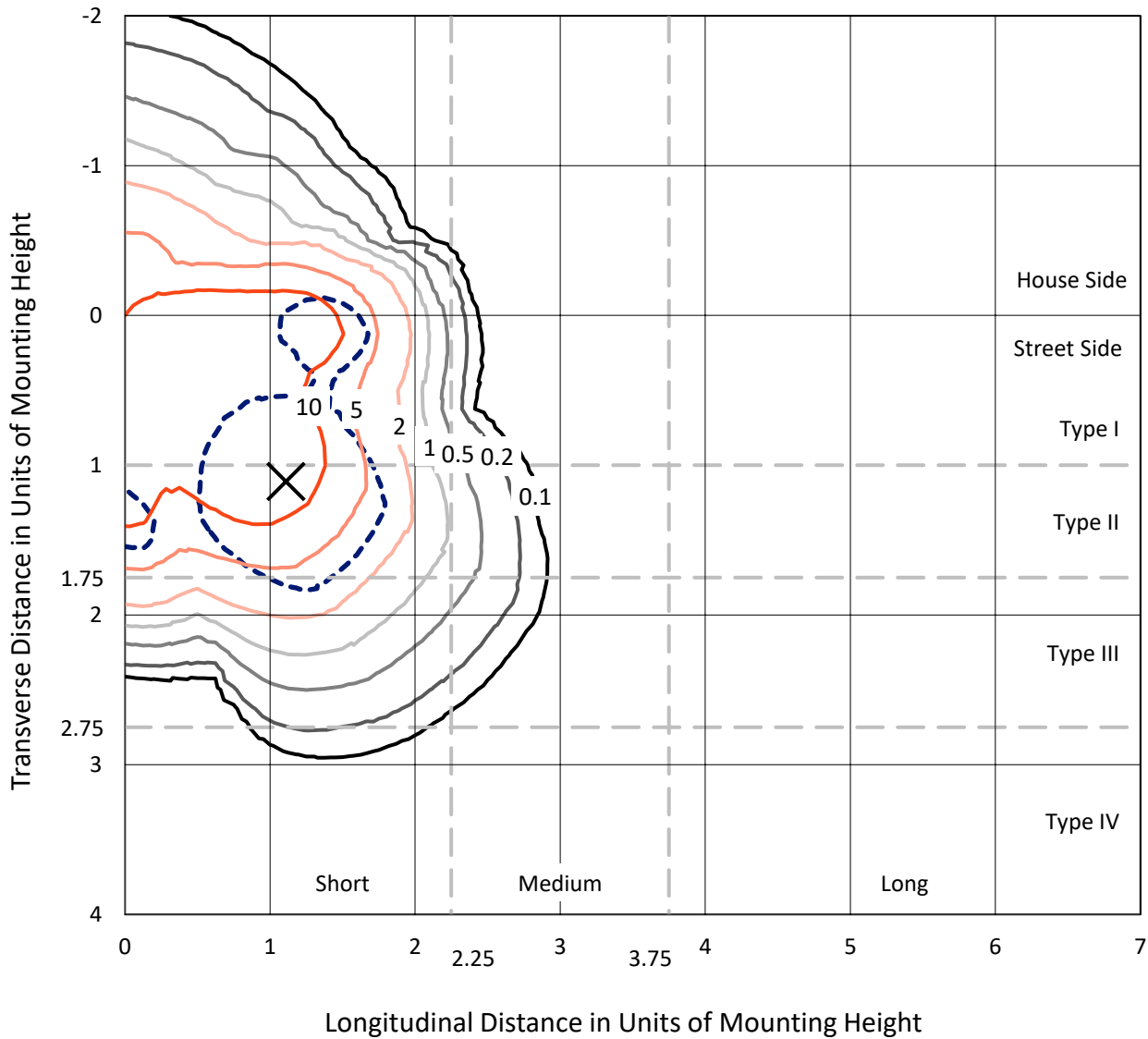
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

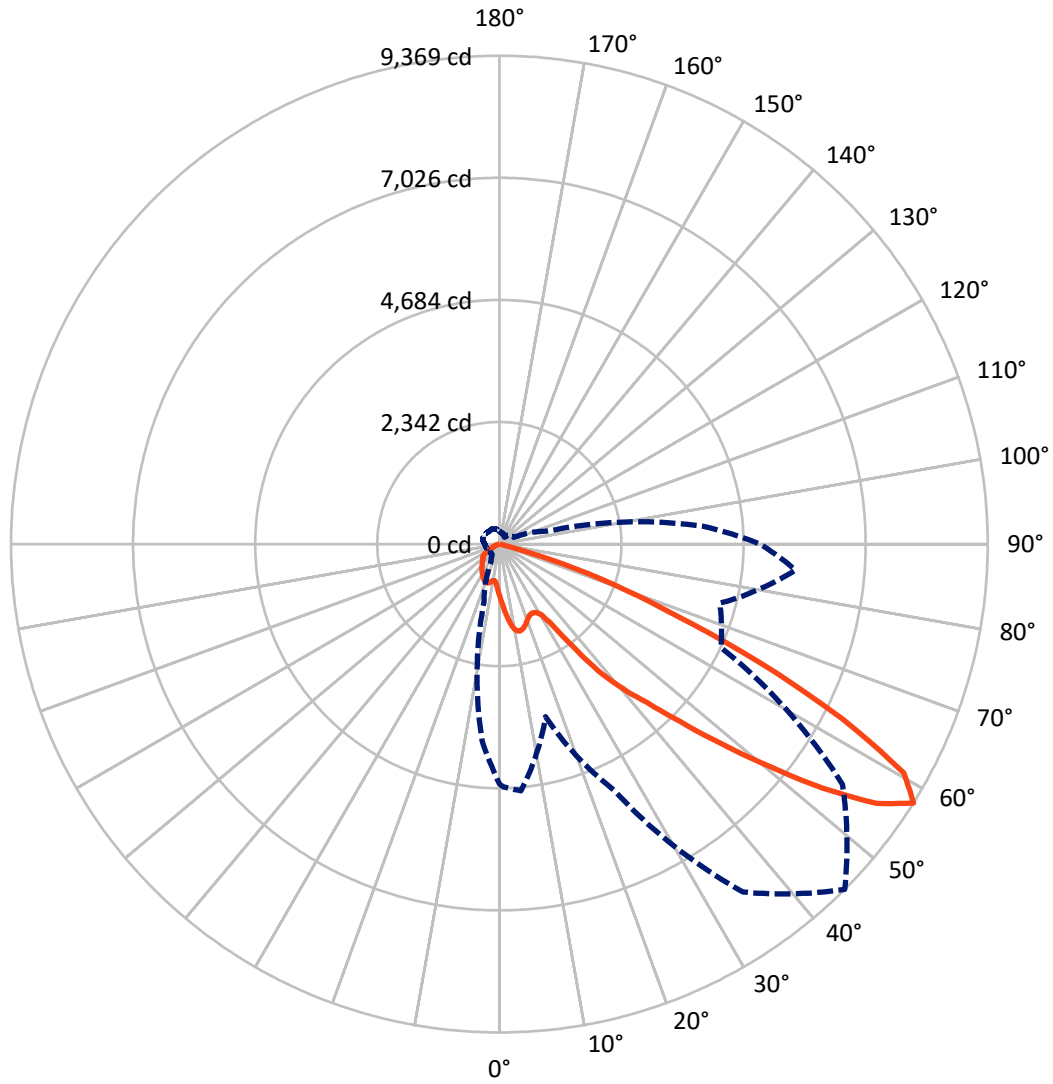
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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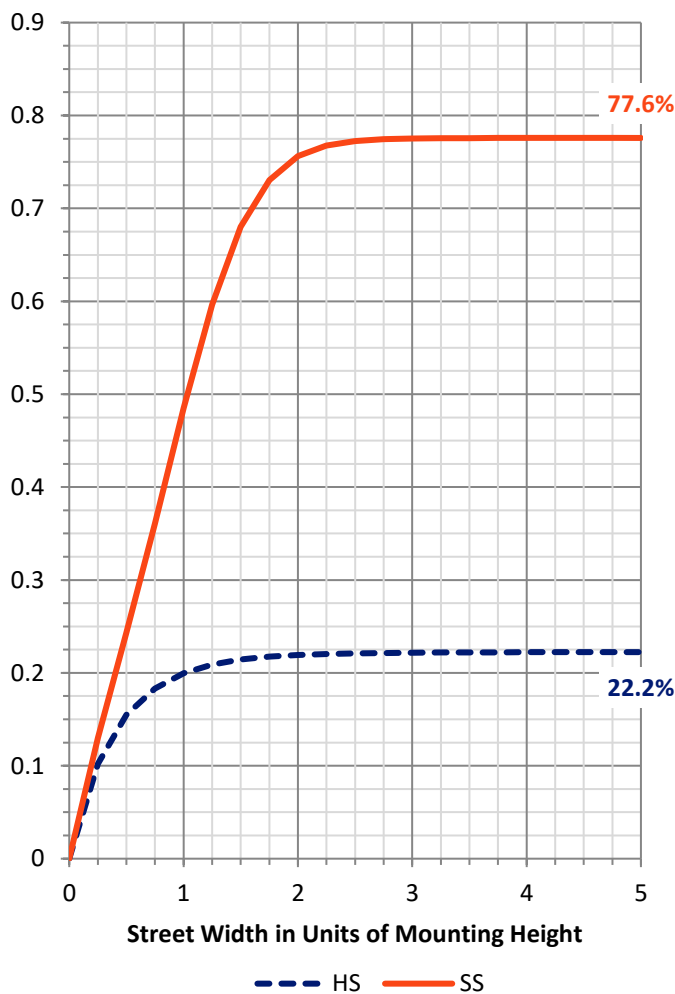
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1270.2	0.0	1270.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	4402.2	0.0	4402.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	5672.4	0.0	5672.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.7
10°-20°	317.3	5.6
20°-30°	515.4	9.1
30°-40°	796.4	14.0
40°-50°	1277.0	22.5
50°-60°	1745.3	30.8
60°-70°	845.3	14.9
70°-80°	77.4	1.4
80°-90°	0.2	0.0
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°	5672.4	100.0
0°-180°	5672.4	100.0

Coefficient of Utilization



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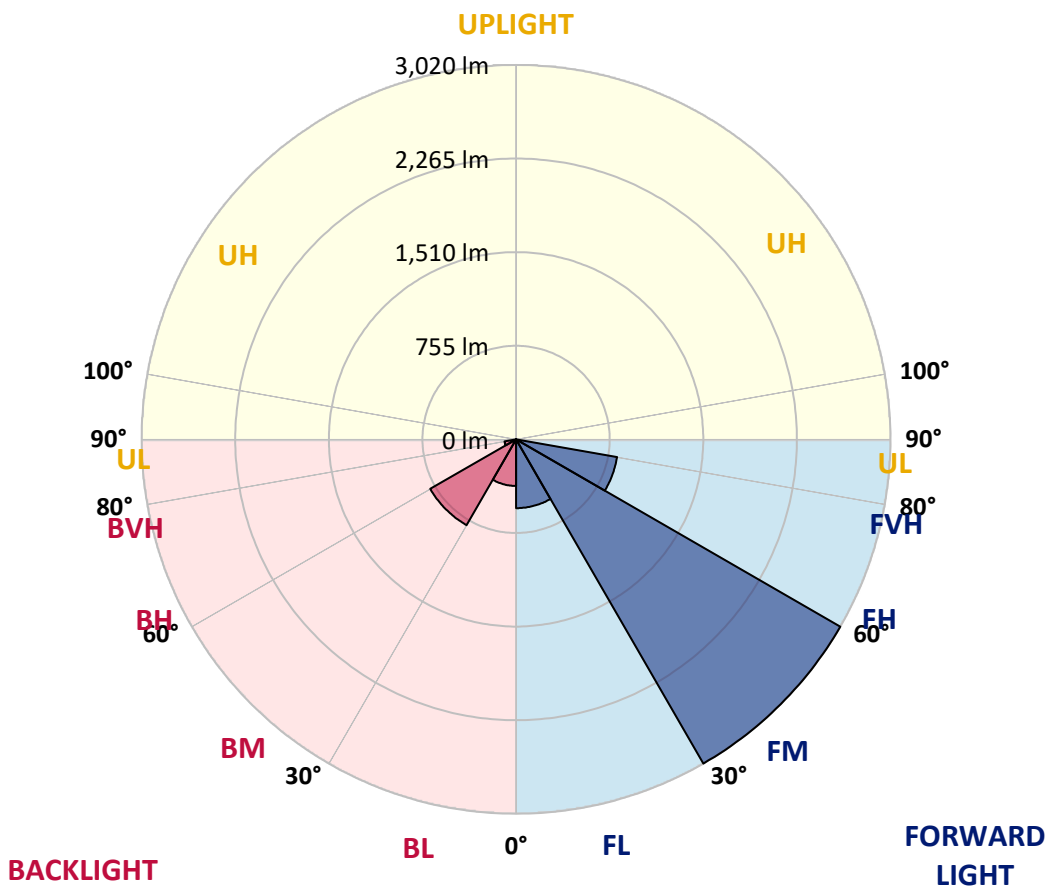
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.9	9.8			
FM (30°-60°)	3019.5	53.2			
FH (60°-80°)	827.5	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	375.8	6.6	B1/500		
BM (30°-60°)	799.2	14.1	B1/1000		
BH (60°-80°)	95.2	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0
2.5°	1080.1	1086.9	1098.4	1122.8	1143.3	1157.1	1163.1	1161.6	1153.2	1147.1	1134.9
5°	1195.9	1195.9	1218.0	1273.7	1316.4	1343.0	1356.8	1348.4	1331.6	1304.9	1263.8
7.5°	1297.3	1301.1	1338.5	1417.7	1482.5	1520.6	1542.7	1538.2	1508.4	1457.4	1375.0
10°	1376.6	1381.1	1430.7	1527.5	1603.7	1642.6	1675.4	1678.4	1645.6	1577.8	1483.3
12.5°	1453.6	1458.1	1510.0	1603.0	1670.0	1686.0	1715.0	1726.4	1718.0	1670.0	1571.7
15°	1536.6	1547.3	1591.5	1660.9	1689.1	1670.0	1689.1	1709.7	1737.9	1733.3	1644.9
17.5°	1618.2	1625.8	1670.8	1695.2	1663.9	1614.4	1623.5	1647.9	1711.9	1774.5	1717.3
20°	1693.7	1704.3	1741.7	1709.7	1615.1	1538.2	1538.9	1570.9	1668.5	1799.6	1791.2
22.5°	1772.9	1788.9	1815.6	1725.7	1570.2	1477.9	1481.8	1510.7	1634.2	1823.2	1875.1
25°	1876.6	1891.8	1909.4	1765.3	1555.7	1448.2	1462.7	1489.4	1634.2	1863.6	1978.7
27.5°	2016.8	2027.5	2028.3	1839.2	1580.8	1452.8	1483.3	1513.8	1683.0	1944.4	2117.5
30°	2192.9	2209.7	2187.6	1954.3	1659.4	1513.8	1558.7	1596.9	1788.2	2080.9	2321.7
32.5°	2407.1	2430.7	2401.0	2125.1	1823.2	1724.1	1805.7	1827.8	1955.9	2278.3	2553.4
35°	2658.6	2678.4	2646.4	2361.4	2205.9	2224.2	2372.0	2343.8	2292.8	2521.4	2824.0
37.5°	2934.6	2952.8	2891.1	2719.6	2771.4	2850.7	3087.0	2990.2	2825.6	2834.7	3117.5
40°	3187.6	3207.4	3110.6	3109.1	3215.8	3360.6	3645.7	3512.3	3288.2	3244.8	3392.6
42.5°	3449.8	3463.5	3375.9	3316.4	3558.8	3856.8	4158.7	3978.8	3594.6	3547.4	3737.2
45°	3824.1	3853.0	3696.8	3418.6	3867.5	4427.7	4848.5	4497.1	3803.5	3765.4	4264.6
47.5°	4374.4	4395.7	4077.1	3482.6	4154.9	5138.9	5710.6	5169.4	3987.2	3900.3	4985.7
50°	4829.4	4843.9	4427.0	3552.7	4460.5	5905.7	6693.1	5966.7	4193.7	4123.6	5658.7
52.5°	5164.8	5219.7	4886.6	3696.8	4862.2	6807.4	7780.8	6911.1	4516.2	4555.0	6216.7
55°	5234.2	5308.9	5200.6	3785.2	5215.9	7725.9	8785.4	7756.4	4837.8	4882.0	6404.2
57.5°	4600.0	4659.5	4749.4	3428.5	5207.5	8146.6	9368.5	8036.9	4691.5	4378.2	5702.2
60°	3446.0	3487.2	3650.3	2620.5	4789.0	7774.7	8914.2	7559.7	4102.3	3340.8	4344.7
62.5°	2043.5	2061.8	2268.4	1697.5	3975.0	6695.4	7392.8	6523.1	3241.7	2247.0	2660.9
65°	784.3	776.7	934.5	837.7	2923.1	5333.3	5498.7	4972.7	2224.2	1029.8	1014.5
67.5°	121.2	115.9	156.3	247.7	2108.3	3696.0	3628.2	3584.0	1393.3	240.1	209.6
70°	27.4	27.4	33.5	73.2	1288.2	2171.6	2324.0	2215.8	891.8	51.1	27.4
72.5°	13.0	13.0	16.0	31.3	466.5	894.8	1042.7	1026.7	289.6	16.8	9.9
75°	4.6	5.3	5.3	6.9	28.2	46.5	106.7	76.2	18.3	0.0	0.0
77.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0
2.5°	1108.3	1102.9	1083.1	1056.4	1030.5	1007.7	984.0	955.8	935.2	911.6	904.0
5°	1231.7	1198.2	1144.1	1087.7	1035.9	991.6	949.0	903.2	869.7	836.2	824.7
7.5°	1336.2	1286.6	1199.0	1114.4	1043.5	981.0	919.2	856.7	808.0	768.3	756.1
10°	1429.9	1372.8	1255.4	1151.0	1061.8	989.4	914.7	836.2	772.9	725.6	714.2
12.5°	1510.7	1444.4	1303.4	1178.4	1069.4	986.3	913.9	851.4	794.2	740.1	725.6
15°	1578.6	1505.4	1343.8	1196.7	1058.0	948.2	884.9	875.0	870.5	811.0	782.8
17.5°	1644.9	1562.6	1376.6	1205.1	1025.9	881.1	835.4	880.4	928.4	889.5	853.7
20°	1714.2	1620.5	1410.1	1206.6	972.6	805.7	798.0	868.9	929.9	917.7	884.2
22.5°	1795.8	1692.9	1452.0	1205.8	905.5	741.6	770.6	846.8	896.4	895.6	868.9
25°	1913.9	1784.4	1508.4	1210.4	832.3	692.1	740.1	809.5	849.9	848.4	826.2
27.5°	2040.5	1893.4	1581.6	1221.8	769.8	663.1	704.3	758.4	793.5	791.9	772.9
30°	2218.1	2019.1	1651.7	1222.6	724.9	647.9	664.7	702.0	735.5	731.7	717.3
32.5°	2433.8	2160.9	1710.4	1179.2	696.7	633.4	623.5	642.6	668.5	663.1	659.3
35°	2694.5	2329.3	1760.7	1083.9	653.2	604.4	577.8	581.6	599.9	602.9	601.4
37.5°	2991.7	2529.8	1823.2	958.1	594.5	562.5	526.7	523.6	534.3	544.2	551.8
40°	3285.2	2755.4	1907.8	830.8	541.2	509.2	474.9	467.2	471.8	489.3	505.4
42.5°	3615.2	3016.9	1999.3	721.8	504.6	450.5	417.7	403.2	416.2	444.4	463.4
45°	4090.8	3383.5	2088.5	634.9	489.3	398.6	354.4	352.9	367.4	404.0	425.3
47.5°	4758.5	3857.6	2147.2	567.1	488.6	358.2	305.7	314.8	331.6	367.4	391.8
50°	5409.5	4451.4	2082.4	515.3	472.6	331.6	269.1	287.4	304.1	335.4	360.5
52.5°	5802.0	4770.7	1830.1	466.5	423.0	319.4	233.2	265.3	268.3	296.5	323.2
55°	5760.9	4564.2	1401.7	391.0	349.9	301.8	195.9	239.3	240.9	262.2	285.1
57.5°	5000.2	3918.6	962.7	317.1	263.0	249.2	161.6	202.0	216.5	229.4	246.2
60°	3726.5	2859.1	429.1	257.6	166.9	168.5	138.0	152.4	174.5	189.8	204.3
62.5°	2196.0	1644.9	174.5	154.7	92.2	105.9	111.3	111.3	125.0	136.4	145.6
65°	830.1	575.5	70.9	77.7	48.0	49.5	65.6	80.8	91.5	101.4	113.6
67.5°	145.6	100.6	36.6	29.0	28.2	25.2	33.5	52.6	58.7	66.3	71.6
70°	24.4	20.6	15.2	14.5	13.0	13.7	22.1	37.3	41.2	43.4	45.7
72.5°	6.9	6.1	4.6	3.8	3.0	3.8	13.7	29.0	30.5	32.0	34.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	20.6	22.1	22.9	25.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	6.1	7.6	6.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0
2.5°	899.4	884.2	875.8	871.2	871.2	865.1	858.3	856.0	865.9	865.9	882.7
5°	810.2	798.0	784.3	775.9	763.0	765.3	757.6	756.9	766.8	771.4	788.9
7.5°	748.5	733.3	724.9	719.5	712.7	709.6	702.8	700.5	705.8	713.4	730.2
10°	707.3	705.1	704.3	708.1	708.1	704.3	698.2	694.4	695.9	710.4	729.4
12.5°	718.0	722.6	724.1	730.2	733.3	730.2	725.6	727.2	737.1	763.7	791.9
15°	764.5	760.7	759.2	762.2	764.5	761.5	759.9	771.4	805.7	843.8	875.8
17.5°	814.1	789.7	779.0	779.0	780.5	779.0	780.5	802.6	858.3	896.4	920.0
20°	839.2	794.2	777.5	773.7	776.7	777.5	782.8	808.0	868.9	895.6	900.9
22.5°	831.6	775.2	756.1	753.1	756.1	759.2	764.5	785.8	843.0	856.7	854.4
25°	793.5	737.8	722.6	722.6	729.4	728.7	731.0	746.2	793.5	801.9	798.0
27.5°	745.5	692.9	679.9	687.5	693.6	692.1	692.9	705.8	740.9	743.2	739.4
30°	696.7	650.9	638.7	647.9	656.3	654.7	655.5	668.5	690.6	688.3	683.0
32.5°	647.1	613.6	604.4	609.8	622.7	621.2	624.3	638.0	646.4	636.5	630.4
35°	601.4	583.9	577.0	580.1	590.0	592.2	597.6	606.7	606.7	594.5	583.9
37.5°	558.7	556.4	551.8	548.0	557.2	564.0	571.7	582.3	567.1	549.6	539.7
40°	519.1	529.0	522.9	513.0	518.3	528.2	543.5	551.8	533.6	516.0	499.3
42.5°	482.5	499.3	497.0	484.8	489.3	498.5	516.0	522.9	501.5	481.7	465.7
45°	447.4	471.1	472.6	457.3	461.9	471.1	491.6	493.9	466.5	445.1	433.7
47.5°	416.9	442.9	443.6	432.2	433.7	446.7	465.7	466.5	435.2	415.4	400.9
50°	388.0	417.7	420.0	410.1	411.6	426.8	442.9	439.8	406.3	385.7	372.7
52.5°	352.9	393.3	398.6	394.1	400.2	412.4	422.3	411.6	372.7	352.1	340.7
55°	314.8	367.4	378.8	375.8	382.6	392.5	394.8	388.0	339.2	318.6	307.9
57.5°	270.6	302.6	322.4	316.3	321.7	331.6	338.4	333.1	296.5	280.5	271.4
60°	224.1	245.4	250.0	240.1	235.5	253.1	269.1	262.2	231.0	221.0	210.4
62.5°	163.9	188.3	191.3	178.4	173.0	192.1	205.8	198.9	164.6	154.0	145.6
65°	131.1	154.0	160.1	147.9	144.8	159.3	167.7	150.9	126.5	115.1	105.9
67.5°	86.1	104.4	120.4	119.7	113.6	118.1	112.0	98.3	80.8	74.7	68.6
70°	53.4	64.0	73.9	77.7	77.0	75.5	67.1	57.2	51.8	49.5	46.5
72.5°	41.2	51.8	59.5	61.7	62.5	60.2	53.4	44.2	38.9	35.8	33.5
75°	30.5	38.9	45.0	48.0	49.5	48.0	41.2	35.1	29.7	27.4	25.2
77.5°	10.7	13.0	16.0	17.5	16.8	16.0	14.5	14.5	11.4	10.7	9.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0	997.0
2.5°	901.7	915.4	940.6	963.4	987.8	1013.0	1040.4	1068.6	1081.6	1080.1
5°	815.6	845.3	886.5	931.4	981.7	1035.9	1096.1	1157.8	1184.5	1195.9
7.5°	761.5	803.4	857.5	914.7	981.0	1058.0	1148.7	1245.5	1284.3	1297.3
10°	768.3	817.1	862.1	917.7	988.6	1088.5	1201.3	1316.4	1362.1	1376.6
12.5°	824.0	834.6	846.8	892.6	981.7	1111.3	1249.3	1386.5	1439.1	1453.6
15°	874.3	824.7	801.9	843.8	957.3	1127.3	1298.1	1461.9	1519.9	1536.6
17.5°	876.6	801.9	750.8	783.6	917.7	1134.2	1346.1	1538.9	1602.2	1618.2
20°	848.4	776.7	711.2	711.9	863.6	1132.7	1385.7	1608.3	1679.2	1693.7
22.5°	807.2	747.0	679.1	655.5	805.7	1129.6	1429.2	1682.2	1759.2	1772.9
25°	761.5	708.9	648.7	612.8	747.7	1132.7	1490.1	1779.0	1863.6	1876.6
27.5°	711.9	666.9	625.0	596.1	699.0	1144.1	1563.3	1902.5	2003.1	2016.8
30°	660.1	626.5	609.8	592.2	668.5	1147.1	1642.6	2046.6	2173.9	2192.9
32.5°	609.0	590.7	591.5	594.5	639.5	1125.8	1715.0	2206.6	2376.6	2407.1
35°	561.8	556.4	571.7	586.9	597.6	1070.9	1778.3	2395.7	2627.4	2658.6
37.5°	521.4	525.9	545.0	560.2	551.8	993.2	1862.1	2631.9	2907.9	2934.6
40°	482.5	493.9	516.0	522.9	516.8	902.5	1962.7	2859.9	3151.0	3187.6
42.5°	446.7	455.0	486.3	487.8	506.9	810.2	2059.5	3105.3	3430.8	3449.8
45°	417.7	416.2	448.2	458.1	519.8	708.1	2154.0	3432.3	3796.6	3824.1
47.5°	389.5	388.0	395.6	440.6	525.2	613.6	2247.8	3911.0	4327.1	4374.4
50°	362.8	365.1	341.5	432.2	496.2	541.2	2290.5	4353.8	4809.6	4829.4
52.5°	339.2	330.8	289.6	404.7	434.5	472.6	2169.3	4555.0	5108.4	5164.8
55°	305.7	259.2	238.6	328.5	343.0	412.4	1776.7	4438.4	5134.3	5234.2
57.5°	261.4	203.5	202.8	242.4	242.4	382.6	1138.0	3792.0	4424.7	4600.0
60°	201.2	157.8	167.7	168.5	155.5	279.0	638.7	2747.0	3271.5	3446.0
62.5°	143.3	120.4	126.5	100.6	89.2	139.5	306.4	1581.6	2019.1	2043.5
65°	96.0	81.6	66.3	55.6	54.9	59.5	126.5	571.7	695.1	784.3
67.5°	63.3	49.5	35.1	35.1	39.6	39.6	48.0	94.5	132.6	121.2
70°	41.2	34.3	22.1	21.3	25.9	25.9	24.4	25.9	27.4	27.4
72.5°	30.5	25.9	13.0	11.4	14.5	15.2	13.7	13.0	13.0	13.0
75°	22.9	18.3	7.6	5.3	6.9	9.1	7.6	5.3	5.3	4.6
77.5°	9.1	6.9	3.0	2.3	3.8	5.3	4.6	2.3	1.5	1.5
80°	0.8	1.5	1.5	1.5	2.3	3.0	3.8	1.5	0.8	0.8
82.5°	0.0	0.8	0.8	0.8	1.5	2.3	3.0	1.5	0.8	0.8
85°	0.0	0.0	0.0	0.0	1.5	2.3	1.5	0.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	2.3	1.5	0.8	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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