

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: P642665

Luminaire Tested: GWS-SA6D-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21926.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

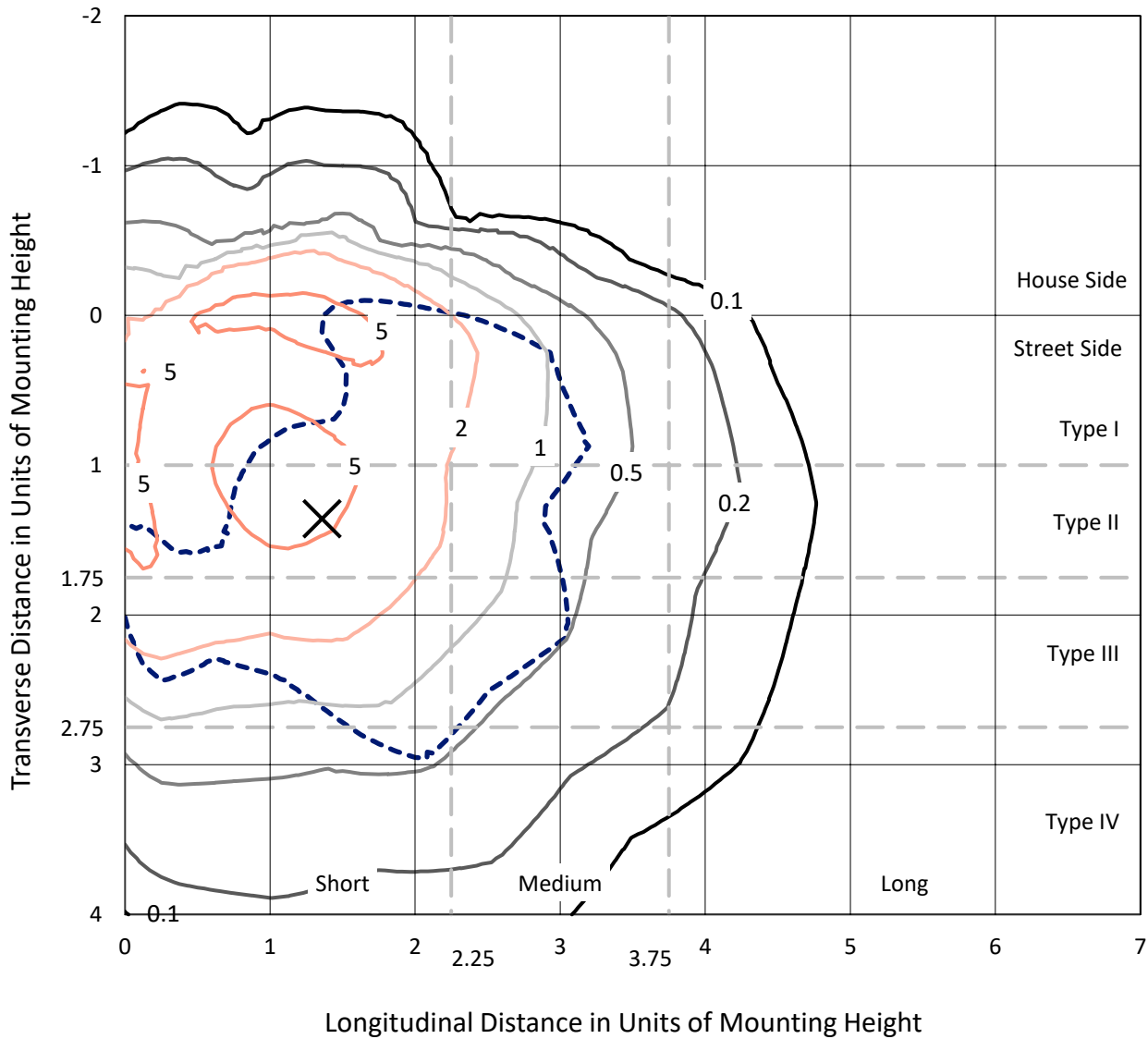
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

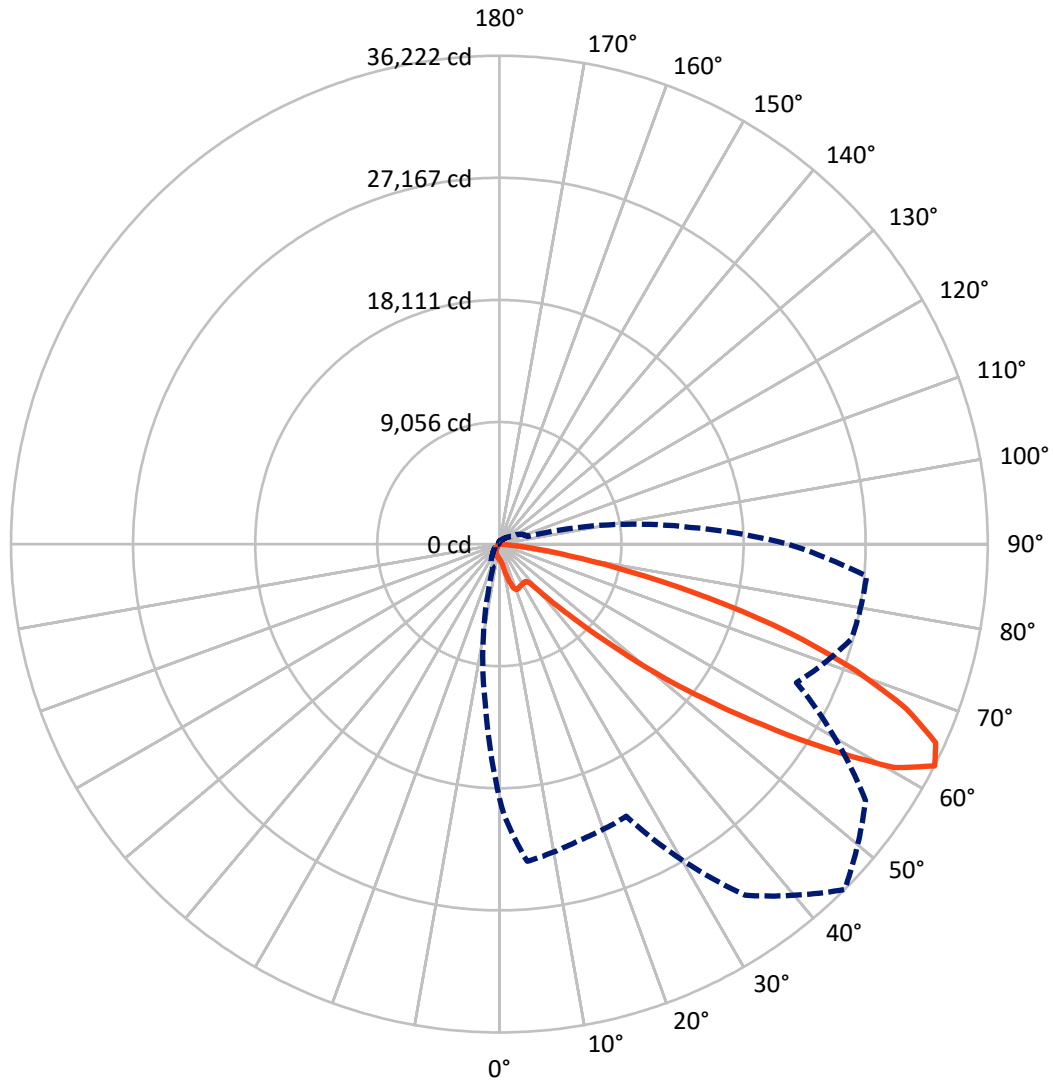
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2705.7	0.0	2705.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19220.5	0.0	19220.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	21926.1	0.0	21926.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	0.5
10°-20°	382.3	1.7
20°-30°	831.0	3.8
30°-40°	1363.9	6.2
40°-50°	2507.4	11.4
50°-60°	5384.7	24.6
60°-70°	7232.5	33.0
70°-80°	3766.0	17.2
80°-90°	357.1	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°	21926.1	100.0
0°-180°	21926.1	100.0

Coefficient of Utilization



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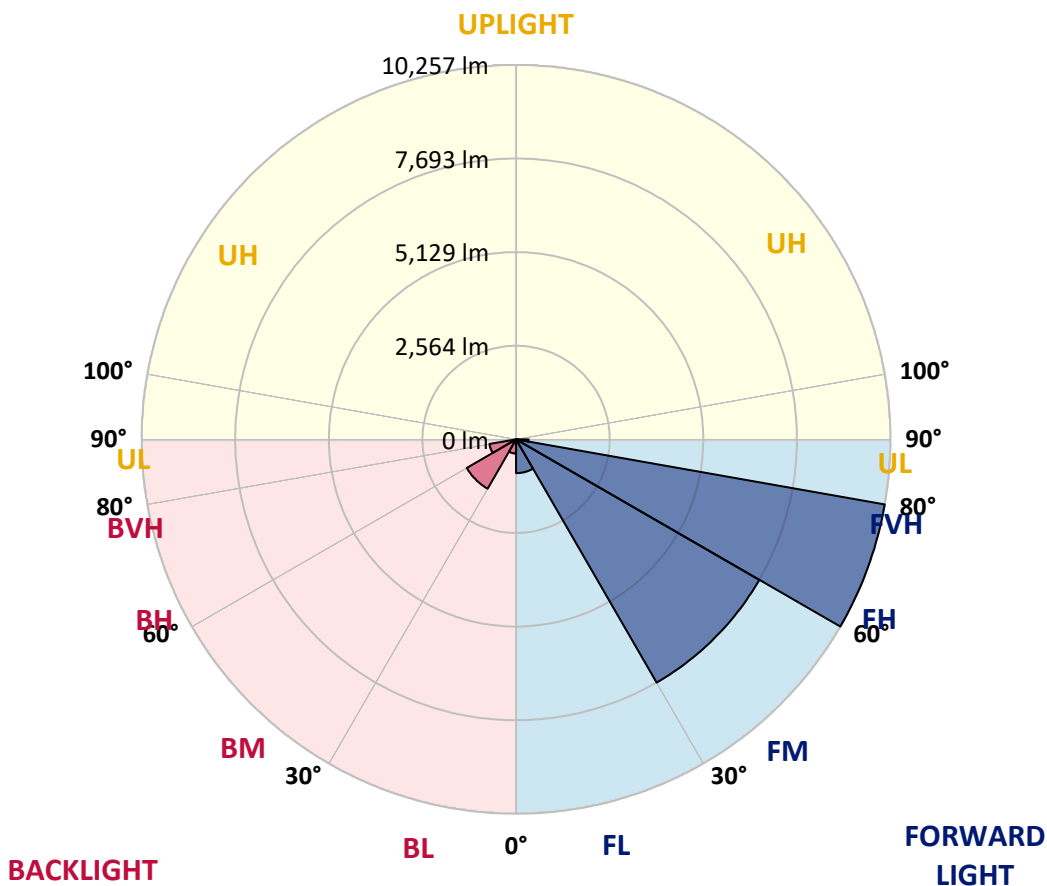
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.3	4.2			
FM (30°-60°)	7695.8	35.1			
FH (60°-80°)	10257.2	46.8			G4/12000
FVH (80°-90°)	341.2	1.6			G3/500
BL (0°-30°)	388.1	1.8	B1/500		
BM (30°-60°)	1560.3	7.1	B2/2500		
BH (60°-80°)	741.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	15.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1162.5	1167.6	1172.6	1190.4	1203.0	1213.1	1215.7	1208.1	1190.4	1172.6	1147.3
5°	1127.0	1132.1	1149.8	1197.9	1246.1	1284.1	1296.7	1289.1	1246.1	1190.4	1132.1
7.5°	1124.5	1134.6	1177.7	1279.0	1382.8	1461.3	1481.6	1463.9	1382.8	1271.4	1152.4
10°	1215.7	1233.4	1296.7	1479.1	1669.0	1808.3	1864.0	1788.1	1658.9	1456.3	1261.3
12.5°	1453.7	1484.1	1605.7	1871.6	2165.4	2350.3	2426.3	2332.6	2130.0	1836.2	1527.2
15°	1828.6	1874.2	2056.5	2454.2	2801.1	2965.7	2991.1	2937.9	2702.4	2378.2	1962.8
17.5°	2357.9	2423.8	2707.4	3112.6	3363.4	3421.6	3414.0	3358.3	3186.1	2963.2	2570.7
20°	2991.1	3069.6	3348.2	3682.5	3707.8	3639.4	3601.4	3568.5	3510.3	3472.3	3165.8
22.5°	3629.3	3725.5	4016.8	4100.4	3872.4	3674.9	3581.2	3606.5	3692.6	3880.0	3755.9
25°	4265.0	4356.2	4629.7	4404.3	3948.4	3619.2	3500.1	3560.9	3766.1	4171.3	4330.9
27.5°	5007.1	5075.5	5237.5	4612.0	3961.1	3573.6	3457.1	3550.8	3801.5	4353.6	4961.5
30°	5779.5	5820.1	5741.5	4667.7	3918.0	3505.2	3414.0	3550.8	3862.3	4475.2	5435.1
32.5°	6346.9	6354.5	6098.7	4672.8	3895.2	3449.5	3373.5	3535.6	3920.6	4576.5	5893.5
35°	6931.9	6893.9	6440.6	4748.7	3956.0	3469.7	3403.9	3578.7	4011.7	4695.6	6296.2
37.5°	7524.5	7456.2	6823.0	4872.8	4113.0	3690.1	3649.6	3799.0	4158.6	4860.2	6739.4
40°	8132.4	8038.7	7220.6	5060.3	4462.6	4439.8	4579.1	4561.3	4561.3	5070.4	7195.3
42.5°	8874.5	8765.5	7808.2	5589.6	5278.1	5787.1	6167.0	5931.5	5495.9	5554.1	7787.9
45°	9854.6	9760.9	8826.3	6602.7	6557.1	7727.2	8238.8	7772.7	6688.8	6671.0	8778.2
47.5°	11422.3	11404.6	10449.8	7777.8	8122.2	10196.5	11184.2	10287.7	8048.8	7853.8	10652.4
50°	13625.7	13572.5	12473.4	9155.6	9983.8	13256.0	15018.7	13524.4	9692.5	9234.1	13162.2
52.5°	16107.7	16163.5	15307.4	10660.0	11961.8	16659.9	19114.0	17232.2	11478.0	10989.2	16320.5
55°	18445.4	18764.5	18539.1	12420.2	13894.2	20418.3	23612.0	21299.7	13689.0	13286.3	19861.1
57.5°	20274.0	21173.1	22753.4	14978.2	16166.0	24815.0	28634.3	25709.1	16269.8	17017.0	24680.8
60°	20375.3	21565.6	25235.5	20329.7	19088.7	28586.2	33649.0	30017.1	20327.2	23351.2	28457.0
62.5°	18848.1	20124.5	23619.6	22761.0	22272.2	31795.0	36222.1	33157.6	24318.6	27061.5	27337.6
65°	17100.5	18389.7	21816.4	20003.0	21902.5	31658.3	35568.7	33231.1	24680.8	24539.0	25334.2
67.5°	14459.0	15616.4	18718.9	17705.8	20187.9	30131.1	32549.8	31136.6	22738.2	22951.0	23305.6
70°	10553.6	11668.0	14547.6	14598.3	17629.9	27378.1	27968.2	27773.2	20940.1	21165.5	20152.4
72.5°	7623.3	8562.9	11047.5	11971.9	14074.0	22958.6	22550.8	23303.0	17966.7	18850.6	16186.2
75°	5480.7	6184.8	8104.5	10414.3	11156.4	17049.9	16143.2	18047.8	14415.9	16231.8	12169.4
77.5°	2223.7	2471.9	3188.6	7015.5	7332.1	11470.4	9882.5	13109.1	10277.5	10665.0	5898.6
80°	91.2	101.3	131.7	3621.7	5027.3	6453.2	5288.2	7007.9	6787.5	4295.4	1393.0
82.5°	10.1	10.1	22.8	1043.5	2200.9	3560.9	2492.1	4037.1	3436.8	1821.0	633.2
85°	2.5	2.5	5.1	119.0	516.7	569.8	336.8	1238.5	1598.1	744.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	22.8	25.3	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°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1147.3	1134.6	1119.4	1104.2	1096.6	1076.4	1068.8	1063.7	1058.7	1061.2	1061.2
5°	1109.3	1081.4	1048.5	1015.6	997.9	977.6	967.5	962.4	964.9	975.1	975.1
7.5°	1104.2	1051.1	980.1	937.1	916.8	901.6	891.5	886.4	889.0	901.6	906.7
10°	1187.8	1094.1	967.5	894.0	871.2	856.0	845.9	838.3	833.2	843.4	845.9
12.5°	1367.6	1238.5	1028.3	889.0	848.4	828.2	820.6	805.4	797.8	802.9	805.4
15°	1739.9	1517.1	1149.8	909.2	828.2	805.4	792.7	780.1	767.4	764.9	767.4
17.5°	2226.2	1907.1	1334.7	957.3	813.0	785.1	767.4	749.7	731.9	729.4	726.9
20°	2829.0	2385.8	1593.0	1033.3	800.3	767.4	742.1	716.7	693.9	686.4	686.4
22.5°	3378.6	2963.2	1924.8	1127.0	782.6	742.1	711.7	681.3	656.0	643.3	640.8
25°	4049.7	3576.1	2322.5	1235.9	757.3	709.1	676.2	645.8	620.5	605.3	600.2
27.5°	4725.9	4221.9	2773.3	1377.8	726.9	676.2	645.8	618.0	590.1	572.4	567.3
30°	5381.9	4918.4	3279.8	1555.1	704.1	643.3	618.0	590.1	564.8	536.9	529.3
32.5°	6086.0	5630.1	3847.1	1752.6	686.4	620.5	592.6	567.3	534.4	509.1	496.4
35°	6764.7	6364.6	4472.7	1945.1	668.6	600.2	569.8	544.5	509.1	481.2	463.5
37.5°	7448.6	7111.7	5126.1	2061.6	643.3	572.4	544.5	524.3	483.7	450.8	430.6
40°	8172.9	7884.2	5832.7	2013.5	620.5	542.0	526.8	504.0	458.4	420.4	395.1
42.5°	8968.2	8621.2	6552.0	1828.6	600.2	516.7	501.5	478.7	435.6	390.0	357.1
45°	9968.6	9429.1	7142.1	1550.0	610.4	491.3	460.9	455.9	415.4	357.1	316.6
47.5°	11688.2	10670.1	7600.5	1370.2	678.8	463.5	428.0	440.7	397.6	324.2	278.6
50°	14319.7	12726.6	8028.5	1357.5	782.6	450.8	397.6	430.6	379.9	291.3	245.7
52.5°	16827.0	14816.1	8302.1	1468.9	873.8	483.7	367.2	417.9	367.2	268.5	222.9
55°	19225.4	16021.6	7813.3	1550.0	959.9	582.5	344.4	397.6	352.0	255.8	215.3
57.5°	21811.3	16558.5	6151.8	1714.6	1020.7	666.1	349.5	367.2	331.8	248.2	212.7
60°	22583.8	15872.2	3712.9	1929.9	987.7	691.4	387.5	326.7	303.9	233.0	205.1
62.5°	21383.3	14243.7	2190.8	1757.7	959.9	653.4	443.2	301.4	276.1	212.7	189.9
65°	19587.6	12032.7	1428.4	1484.1	1018.1	582.5	471.1	288.7	250.7	192.5	167.2
67.5°	17536.2	9692.5	1000.4	876.3	939.6	524.3	397.6	286.2	225.4	162.1	136.8
70°	14770.5	7258.6	704.1	580.0	782.6	466.0	309.0	278.6	197.5	131.7	106.4
72.5°	11412.2	4543.6	524.3	374.8	557.2	379.9	245.7	235.5	159.6	108.9	81.0
75°	8416.0	2590.9	369.8	271.0	367.2	288.7	182.4	167.2	136.8	103.8	73.4
77.5°	4394.2	1296.7	230.5	207.7	210.2	179.8	131.7	121.6	126.6	103.8	68.4
80°	843.4	258.3	139.3	152.0	114.0	114.0	96.2	101.3	111.4	83.6	58.3
82.5°	352.0	55.7	76.0	86.1	70.9	78.5	78.5	81.0	78.5	60.8	43.1
85°	0.0	0.0	32.9	35.5	48.1	48.1	40.5	40.5	40.5	35.5	25.3
87.5°	0.0	0.0	0.0	0.0	2.5	7.6	15.2	17.7	20.3	15.2	10.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1058.7	1053.6	1061.2	1066.3	1071.3	1071.3	1066.3	1061.2	1053.6	1061.2	1053.6
5°	977.6	985.2	997.9	1002.9	1008.0	997.9	992.8	977.6	964.9	967.5	962.4
7.5°	914.3	921.9	937.1	947.2	947.2	942.2	927.0	911.8	891.5	891.5	889.0
10°	856.0	866.2	883.9	896.6	901.6	896.6	881.4	861.1	843.4	843.4	835.8
12.5°	807.9	820.6	840.8	858.6	863.6	858.6	843.4	823.1	802.9	802.9	797.8
15°	767.4	782.6	805.4	825.6	833.2	825.6	807.9	782.6	762.3	764.9	757.3
17.5°	729.4	742.1	772.5	795.3	802.9	795.3	772.5	739.5	719.3	724.3	719.3
20°	686.4	701.5	731.9	757.3	764.9	757.3	731.9	696.5	676.2	676.2	678.8
22.5°	640.8	656.0	686.4	704.1	714.2	706.6	681.3	648.4	628.1	628.1	630.6
25°	600.2	607.8	630.6	648.4	650.9	643.3	623.0	597.7	582.5	590.1	592.6
27.5°	562.3	562.3	572.4	582.5	580.0	572.4	564.8	544.5	542.0	549.6	557.2
30°	521.7	509.1	504.0	496.4	493.9	491.3	498.9	498.9	504.0	514.1	521.7
32.5°	486.3	460.9	438.2	415.4	402.7	412.8	433.1	450.8	468.5	483.7	491.3
35°	445.7	405.2	367.2	336.8	316.6	331.8	364.7	397.6	428.0	448.3	460.9
37.5°	405.2	347.0	301.4	263.4	248.2	260.9	296.3	341.9	387.5	412.8	430.6
40°	362.2	288.7	235.5	205.1	189.9	202.6	238.1	283.7	344.4	377.4	400.2
42.5°	319.1	238.1	189.9	159.6	152.0	159.6	187.4	233.0	298.9	339.4	369.8
45°	276.1	197.5	152.0	129.2	121.6	129.2	152.0	189.9	255.8	301.4	336.8
47.5°	238.1	167.2	126.6	106.4	101.3	108.9	126.6	159.6	215.3	260.9	301.4
50°	207.7	146.9	108.9	91.2	86.1	93.7	108.9	134.2	182.4	222.9	265.9
52.5°	187.4	136.8	96.2	78.5	76.0	81.0	93.7	114.0	154.5	189.9	230.5
55°	182.4	136.8	88.6	70.9	68.4	73.4	83.6	98.8	134.2	164.6	200.1
57.5°	187.4	146.9	83.6	60.8	58.3	63.3	73.4	86.1	116.5	141.8	174.8
60°	187.4	149.4	73.4	48.1	45.6	50.7	60.8	76.0	103.8	124.1	152.0
62.5°	169.7	136.8	60.8	38.0	32.9	38.0	50.7	63.3	91.2	111.4	134.2
65°	146.9	116.5	50.7	27.9	22.8	27.9	40.5	53.2	78.5	96.2	121.6
67.5°	119.0	88.6	38.0	20.3	15.2	20.3	30.4	43.1	65.8	83.6	108.9
70°	88.6	63.3	30.4	17.7	15.2	17.7	27.9	40.5	58.3	76.0	101.3
72.5°	65.8	43.1	25.3	17.7	12.7	17.7	25.3	38.0	55.7	73.4	96.2
75°	55.7	35.5	22.8	15.2	12.7	15.2	22.8	35.5	50.7	68.4	91.2
77.5°	53.2	32.9	20.3	12.7	10.1	12.7	20.3	30.4	45.6	63.3	88.6
80°	45.6	27.9	17.7	10.1	7.6	10.1	17.7	25.3	35.5	48.1	68.4
82.5°	35.5	22.8	12.7	5.1	2.5	5.1	12.7	15.2	22.8	27.9	40.5
85°	22.8	12.7	5.1	0.0	0.0	0.0	5.1	10.1	10.1	12.7	20.3
87.5°	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.6
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°	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1068.8	1071.3	1076.4	1084.0	1101.7	1116.9	1132.1	1152.4	1162.5	1162.5
5°	967.5	970.0	972.5	982.7	1008.0	1028.3	1061.2	1101.7	1122.0	1127.0
7.5°	889.0	894.0	899.1	906.7	932.0	959.9	1002.9	1078.9	1116.9	1124.5
10°	843.4	851.0	861.1	876.3	899.1	929.5	1002.9	1139.7	1203.0	1215.7
12.5°	807.9	820.6	830.7	848.4	876.3	924.4	1071.3	1311.9	1423.4	1453.7
15°	772.5	787.7	802.9	820.6	851.0	942.2	1203.0	1620.9	1805.8	1828.6
17.5°	737.0	754.7	775.0	795.3	833.2	985.2	1410.7	2048.9	2307.3	2357.9
20°	696.5	719.3	747.1	772.5	815.5	1053.6	1699.4	2558.0	2882.2	2991.1
22.5°	653.4	681.3	714.2	747.1	795.3	1137.2	2048.9	3105.0	3558.4	3629.3
25°	618.0	645.8	676.2	709.1	762.3	1238.5	2471.9	3783.8	4196.6	4265.0
27.5°	585.0	612.9	640.8	671.2	729.4	1370.2	2980.9	4505.6	4936.2	5007.1
30°	549.6	582.5	610.4	640.8	699.0	1532.3	3568.5	5305.9	5713.7	5779.5
32.5°	519.2	552.1	580.0	610.4	676.2	1709.5	4186.5	6015.1	6346.9	6346.9
35°	493.9	529.3	549.6	590.1	658.5	1823.5	4771.5	6691.3	6942.0	6931.9
37.5°	466.0	509.1	524.3	552.1	635.7	1836.2	5321.1	7405.5	7590.4	7524.5
40°	438.2	483.7	506.5	521.7	610.4	1732.3	5923.9	8061.5	8218.5	8132.4
42.5°	412.8	448.3	481.2	498.9	595.2	1550.0	6407.6	8763.0	8950.4	8874.5
45°	387.5	417.9	438.2	471.1	605.3	1423.4	6823.0	9581.1	9910.3	9854.6
47.5°	362.2	387.5	400.2	450.8	673.7	1365.1	7076.3	10847.4	11467.9	11422.3
50°	334.3	364.7	364.7	445.7	775.0	1385.4	7296.6	12681.0	13640.9	13625.7
52.5°	306.5	339.4	334.3	483.7	853.5	1479.1	7547.3	14299.4	15968.4	16107.7
55°	278.6	309.0	314.1	559.7	899.1	1560.1	6577.3	14980.7	17956.6	18445.4
57.5°	248.2	265.9	326.7	618.0	883.9	1795.7	4505.6	15104.8	19225.4	20274.0
60°	215.3	230.5	369.8	605.3	835.8	1658.9	2836.6	13990.4	19045.6	20375.3
62.5°	187.4	212.7	390.0	534.4	851.0	1438.6	1808.3	11923.8	17331.0	18848.1
65°	164.6	205.1	354.6	483.7	861.1	975.1	1220.7	9700.1	15656.9	17100.5
67.5°	146.9	227.9	291.3	430.6	739.5	686.4	838.3	7537.2	13164.8	14459.0
70°	134.2	233.0	238.1	369.8	572.4	440.7	552.1	5072.9	9074.5	10553.6
72.5°	121.6	172.2	179.8	296.3	369.8	268.5	357.1	2902.4	6615.3	7623.3
75°	116.5	116.5	124.1	192.5	205.1	195.0	230.5	1732.3	4743.7	5480.7
77.5°	108.9	88.6	78.5	124.1	111.4	139.3	136.8	769.9	2056.5	2223.7
80°	86.1	63.3	53.2	78.5	76.0	93.7	81.0	63.3	93.7	91.2
82.5°	53.2	40.5	38.0	48.1	43.1	48.1	38.0	10.1	10.1	10.1
85°	25.3	22.8	20.3	20.3	22.8	20.3	15.2	5.1	2.5	2.5
87.5°	12.7	12.7	10.1	7.6	10.1	10.1	7.6	2.5	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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