

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: P637383

Luminaire Tested: GWS-SA4C-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637383
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-SA4C-760-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10448.2 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

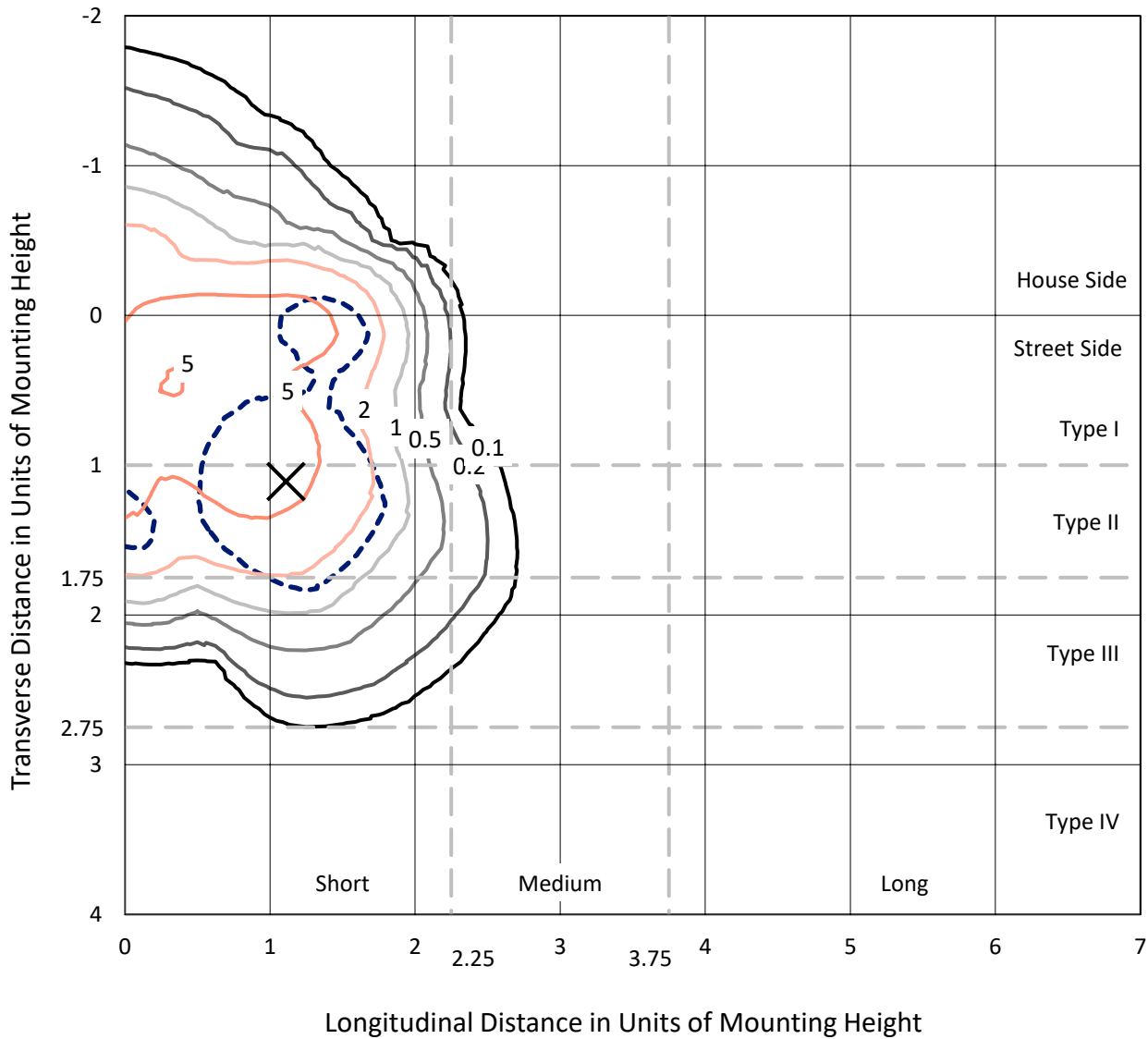
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

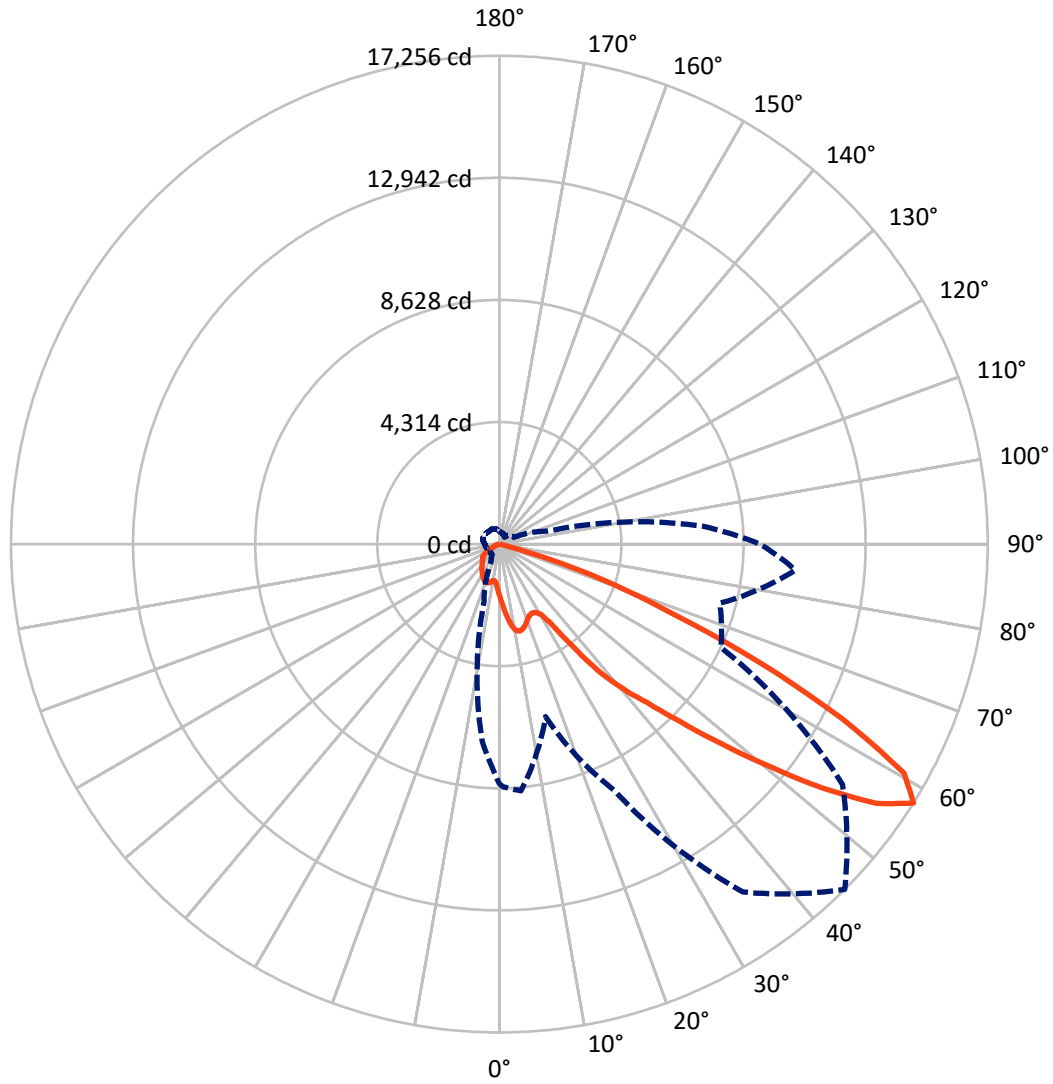
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 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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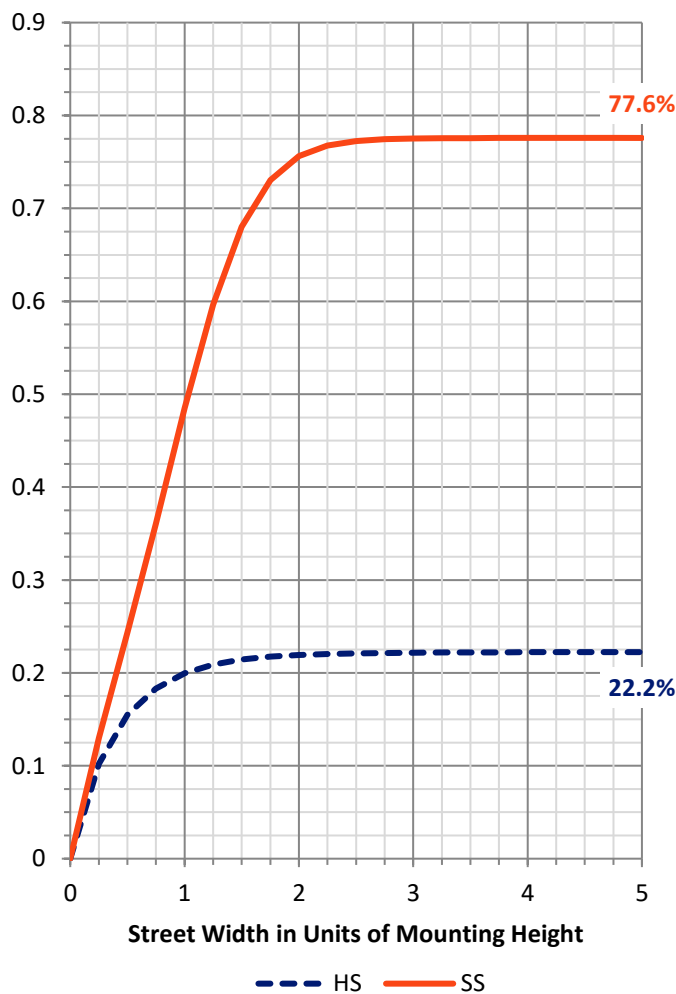
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2339.6	0.0	2339.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8108.6	0.0	8108.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	10448.2	0.0	10448.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	1.7
10°-20°	584.4	5.6
20°-30°	949.4	9.1
30°-40°	1466.9	14.0
40°-50°	2352.2	22.5
50°-60°	3214.8	30.8
60°-70°	1557.0	14.9
70°-80°	142.6	1.4
80°-90°	0.4	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°	10448.2	100.0
0°-180°	10448.2	100.0

Coefficient of Utilization



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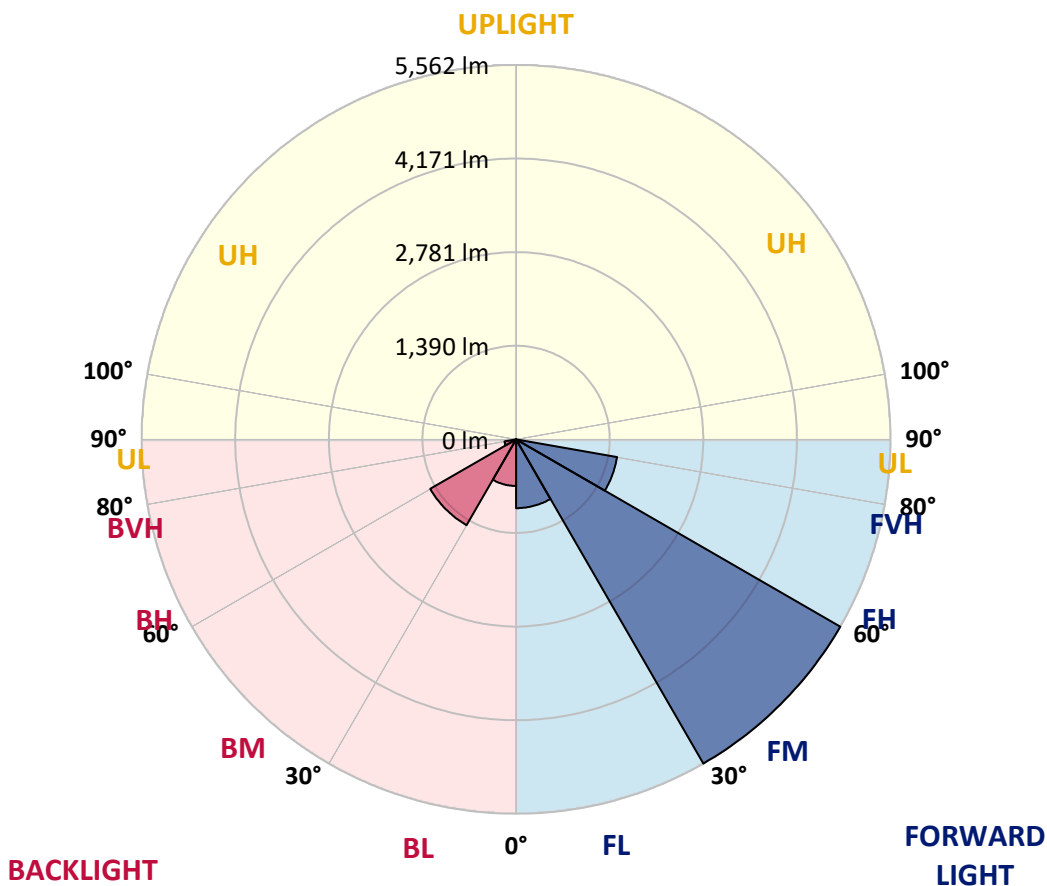
CATALOG NUMBER: GWS-SA4C-760-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.2	9.8			
FM (30°-60°)	5561.8	53.2			
FH (60°-80°)	1524.2	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	692.3	6.6	B2/1000		
BM (30°-60°)	1472.0	14.1	B2/2500		
BH (60°-80°)	175.4	1.7	B1/500		G1/500
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: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1989.4	2002.1	2023.1	2068.0	2105.9	2131.2	2142.4	2139.6	2124.2	2113.0	2090.5
5°	2202.8	2202.8	2243.5	2346.0	2424.6	2473.8	2499.1	2483.6	2452.7	2403.6	2327.8
7.5°	2389.5	2396.6	2465.4	2611.4	2730.7	2800.9	2841.6	2833.2	2778.4	2684.4	2532.7
10°	2535.6	2544.0	2635.2	2813.5	2953.9	3025.5	3085.9	3091.5	3031.2	2906.2	2732.1
12.5°	2677.4	2685.8	2781.3	2952.5	3076.1	3105.6	3158.9	3180.0	3164.5	3076.1	2895.0
15°	2830.4	2850.0	2931.5	3059.2	3111.2	3076.1	3111.2	3149.1	3201.0	3192.6	3029.8
17.5°	2980.6	2994.7	3077.5	3122.4	3064.9	2973.6	2990.4	3035.4	3153.3	3268.4	3163.1
20°	3119.6	3139.3	3208.1	3149.1	2975.0	2833.2	2834.6	2893.6	3073.3	3314.8	3299.3
22.5°	3265.6	3295.1	3344.2	3178.6	2892.2	2722.3	2729.3	2782.7	3010.1	3358.3	3453.7
25°	3456.6	3484.6	3516.9	3251.6	2865.5	2667.5	2694.2	2743.3	3010.1	3432.7	3644.7
27.5°	3714.9	3734.5	3735.9	3387.8	2911.8	2676.0	2732.1	2788.3	3099.9	3581.5	3900.2
30°	4039.2	4070.1	4029.4	3599.8	3056.4	2788.3	2871.1	2941.3	3293.7	3832.8	4276.5
32.5°	4433.7	4477.2	4422.5	3914.2	3358.3	3175.8	3326.0	3366.7	3602.6	4196.4	4703.3
35°	4897.0	4933.5	4874.6	4349.5	4063.1	4096.8	4369.1	4317.2	4223.1	4644.3	5201.7
37.5°	5405.3	5439.0	5325.2	5009.3	5104.8	5250.8	5686.0	5507.7	5204.5	5221.3	5742.2
40°	5871.4	5907.9	5729.6	5726.8	5923.3	6190.1	6715.2	6469.5	6056.7	5976.7	6249.0
42.5°	6354.3	6379.6	6218.2	6108.6	6555.1	7104.1	7660.0	7328.7	6621.1	6534.0	6883.6
45°	7043.7	7097.0	6809.2	6296.8	7123.7	8155.6	8930.6	8283.4	7005.8	6935.6	7855.2
47.5°	8057.3	8096.7	7509.8	6414.7	7653.0	9465.5	10518.5	9521.7	7344.1	7184.1	9183.3
50°	8895.5	8922.2	8154.2	6543.9	8216.0	10877.9	12328.2	10990.2	7724.6	7595.4	10423.0
52.5°	9513.3	9614.3	9000.8	6809.2	8955.9	12538.8	14331.7	12729.7	8318.5	8390.1	11450.7
55°	9641.0	9778.6	9579.2	6972.1	9607.3	14230.6	16182.1	14286.7	8911.0	8992.4	11796.1
57.5°	8472.9	8582.4	8748.1	6315.0	9591.9	15005.6	17256.1	14803.4	8641.4	8064.4	10503.0
60°	6347.3	6423.1	6723.6	4826.8	8821.1	14320.4	16419.3	13924.5	7556.1	6153.6	8002.6
62.5°	3764.0	3797.7	4178.2	3126.6	7321.7	12332.4	13617.0	12015.1	5971.1	4138.9	4901.2
65°	1444.7	1430.6	1721.3	1543.0	5384.2	9823.5	10128.2	9159.5	4096.8	1896.8	1868.7
67.5°	223.2	213.4	287.8	456.3	3883.4	6807.8	6682.9	6601.4	2566.4	442.2	386.1
70°	50.5	50.5	61.8	134.8	2372.7	3999.9	4280.7	4081.3	1642.6	94.1	50.5
72.5°	23.9	23.9	29.5	57.6	859.2	1648.3	1920.6	1891.1	533.5	30.9	18.3
75°	8.4	9.8	9.8	12.6	51.9	85.6	196.6	140.4	33.7	0.0	0.0
77.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	2041.4	2031.5	1995.0	1945.9	1898.2	1856.0	1812.5	1760.6	1722.7	1679.1	1665.1
5°	2268.8	2207.0	2107.3	2003.5	1908.0	1826.6	1747.9	1663.7	1601.9	1540.1	1519.1
7.5°	2461.1	2369.9	2208.4	2052.6	1922.0	1806.9	1693.2	1578.1	1488.2	1415.2	1392.7
10°	2633.8	2528.5	2312.3	2120.0	1955.7	1822.3	1684.8	1540.1	1423.6	1336.6	1315.5
12.5°	2782.7	2660.5	2400.8	2170.5	1969.8	1816.7	1683.4	1568.2	1462.9	1363.2	1336.6
15°	2907.6	2772.8	2475.2	2204.2	1948.7	1746.5	1630.0	1611.7	1603.3	1493.8	1441.9
17.5°	3029.8	2878.1	2535.6	2219.7	1889.7	1623.0	1538.7	1621.6	1710.0	1638.4	1572.4
20°	3157.5	2984.8	2597.3	2222.5	1791.5	1484.0	1469.9	1600.5	1712.8	1690.4	1628.6
22.5°	3307.7	3118.2	2674.5	2221.1	1667.9	1366.1	1419.4	1559.8	1651.1	1649.7	1600.5
25°	3525.4	3286.7	2778.4	2229.5	1533.1	1274.8	1363.2	1491.0	1565.4	1562.6	1521.9
27.5°	3758.4	3487.4	2913.2	2250.6	1418.0	1221.4	1297.3	1396.9	1461.5	1458.7	1423.6
30°	4085.5	3719.1	3042.4	2252.0	1335.2	1193.4	1224.3	1293.0	1354.8	1347.8	1321.1
32.5°	4482.9	3980.2	3150.5	2171.9	1283.2	1166.7	1148.4	1183.5	1231.3	1221.4	1214.4
35°	4963.0	4290.5	3243.2	1996.4	1203.2	1113.3	1064.2	1071.2	1104.9	1110.5	1107.7
37.5°	5510.6	4659.8	3358.3	1764.8	1095.1	1036.1	970.1	964.5	984.2	1002.4	1016.5
40°	6051.1	5075.3	3514.1	1530.3	996.8	937.8	874.7	860.6	869.1	901.3	930.8
42.5°	6659.0	5556.9	3682.6	1329.6	929.4	829.7	769.4	742.7	766.6	818.5	853.6
45°	7535.1	6232.2	3846.9	1169.5	901.3	734.3	652.8	650.0	676.7	744.1	783.4
47.5°	8764.9	7105.5	3955.0	1044.5	899.9	659.9	563.0	579.8	610.7	676.7	721.6
50°	9963.9	8199.1	3835.6	949.1	870.5	610.7	495.6	529.3	560.2	617.7	664.1
52.5°	10687.0	8787.4	3370.9	859.2	779.2	588.3	429.6	488.6	494.2	546.1	595.3
55°	10611.2	8406.9	2581.9	720.2	644.4	556.0	360.8	440.8	443.7	483.0	525.1
57.5°	9210.0	7217.8	1773.2	584.0	484.4	459.1	297.6	372.1	398.7	422.6	453.5
60°	6864.0	5266.3	790.4	474.5	307.5	310.3	254.1	280.8	321.5	349.6	376.3
62.5°	4044.8	3029.8	321.5	285.0	169.9	195.2	205.0	205.0	230.2	251.3	268.2
65°	1528.9	1060.0	130.6	143.2	88.4	91.3	120.7	148.8	168.5	186.7	209.2
67.5°	268.2	185.3	67.4	53.4	51.9	46.3	61.8	96.9	108.1	122.1	132.0
70°	44.9	37.9	28.1	26.7	23.9	25.3	40.7	68.8	75.8	80.0	84.2
72.5°	12.6	11.2	8.4	7.0	5.6	7.0	25.3	53.4	56.2	59.0	63.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.8	37.9	40.7	42.1	46.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	11.2	14.0	11.2
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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1656.7	1628.6	1613.2	1604.7	1604.7	1593.5	1580.9	1576.7	1594.9	1594.9	1625.8
5°	1492.4	1469.9	1444.7	1429.2	1405.4	1409.6	1395.5	1394.1	1412.4	1420.8	1453.1
7.5°	1378.7	1350.6	1335.2	1325.3	1312.7	1307.1	1294.5	1290.2	1300.1	1314.1	1345.0
10°	1302.9	1298.7	1297.3	1304.3	1304.3	1297.3	1286.0	1279.0	1281.8	1308.5	1343.6
12.5°	1322.5	1331.0	1333.8	1345.0	1350.6	1345.0	1336.6	1339.4	1357.6	1406.8	1458.7
15°	1408.2	1401.2	1398.3	1404.0	1408.2	1402.6	1399.8	1420.8	1484.0	1554.2	1613.2
17.5°	1499.4	1454.5	1434.8	1434.8	1437.7	1434.8	1437.7	1478.4	1580.9	1651.1	1694.6
20°	1545.8	1462.9	1432.0	1425.0	1430.6	1432.0	1441.9	1488.2	1600.5	1649.7	1659.5
22.5°	1531.7	1427.8	1392.7	1387.1	1392.7	1398.3	1408.2	1447.5	1552.8	1578.1	1573.8
25°	1461.5	1359.0	1331.0	1331.0	1343.6	1342.2	1346.4	1374.5	1461.5	1477.0	1469.9
27.5°	1373.1	1276.2	1252.3	1266.4	1277.6	1274.8	1276.2	1300.1	1364.7	1368.9	1361.8
30°	1283.2	1199.0	1176.5	1193.4	1208.8	1206.0	1207.4	1231.3	1272.0	1267.8	1258.0
32.5°	1192.0	1130.2	1113.3	1123.2	1147.0	1144.2	1149.8	1175.1	1190.6	1172.3	1161.1
35°	1107.7	1075.4	1062.8	1068.4	1086.7	1090.9	1100.7	1117.6	1117.6	1095.1	1075.4
37.5°	1029.1	1024.9	1016.5	1009.4	1026.3	1038.9	1053.0	1072.6	1044.5	1012.3	994.0
40°	956.1	974.4	963.1	944.9	954.7	972.9	1001.0	1016.5	982.8	950.5	919.6
42.5°	888.7	919.6	915.4	892.9	901.3	918.2	950.5	963.1	923.8	887.3	857.8
45°	824.1	867.6	870.5	842.4	850.8	867.6	905.6	909.8	859.2	819.9	798.9
47.5°	768.0	815.7	817.1	796.0	798.9	822.7	857.8	859.2	801.7	765.2	738.5
50°	714.6	769.4	773.6	755.3	758.1	786.2	815.7	810.1	748.3	710.4	686.5
52.5°	650.0	724.4	734.3	725.8	737.1	759.5	777.8	758.1	686.5	648.6	627.6
55°	579.8	676.7	697.8	692.2	704.8	723.0	727.3	714.6	624.8	586.9	567.2
57.5°	498.4	557.4	593.9	582.6	592.5	610.7	623.4	613.5	546.1	516.7	499.8
60°	412.8	452.1	460.5	442.2	433.8	466.1	495.6	483.0	425.4	407.1	387.5
62.5°	301.9	346.8	352.4	328.5	318.7	353.8	379.1	366.4	303.3	283.6	268.2
65°	241.5	283.6	294.8	272.4	266.8	293.4	308.9	278.0	233.1	212.0	195.2
67.5°	158.6	192.3	221.8	220.4	209.2	217.6	206.4	181.1	148.8	137.6	126.4
70°	98.3	117.9	136.2	143.2	141.8	139.0	123.5	105.3	95.5	91.3	85.6
72.5°	75.8	95.5	109.5	113.7	115.1	110.9	98.3	81.4	71.6	66.0	61.8
75°	56.2	71.6	82.8	88.4	91.3	88.4	75.8	64.6	54.8	50.5	46.3
77.5°	19.7	23.9	29.5	32.3	30.9	29.5	26.7	26.7	21.1	19.7	16.8
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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1660.9	1686.2	1732.5	1774.6	1819.5	1865.9	1916.4	1968.4	1992.2	1989.4
5°	1502.2	1557.0	1632.8	1715.6	1808.3	1908.0	2018.9	2132.6	2181.8	2202.8
7.5°	1402.6	1479.8	1579.5	1684.8	1806.9	1948.7	2115.8	2294.1	2365.7	2389.5
10°	1415.2	1505.0	1587.9	1690.4	1820.9	2004.9	2212.6	2424.6	2508.9	2535.6
12.5°	1517.7	1537.3	1559.8	1644.0	1808.3	2047.0	2301.1	2553.8	2650.7	2677.4
15°	1610.3	1519.1	1477.0	1554.2	1763.4	2076.5	2390.9	2692.8	2799.5	2830.4
17.5°	1614.6	1477.0	1382.9	1443.3	1690.4	2089.1	2479.4	2834.6	2951.1	2980.6
20°	1562.6	1430.6	1309.9	1311.3	1590.7	2086.3	2552.4	2962.4	3092.9	3119.6
22.5°	1486.8	1375.9	1250.9	1207.4	1484.0	2080.7	2632.4	3098.5	3240.3	3265.6
25°	1402.6	1305.7	1194.8	1128.8	1377.3	2086.3	2744.7	3276.8	3432.7	3456.6
27.5°	1311.3	1228.5	1151.2	1097.9	1287.4	2107.3	2879.5	3504.3	3689.6	3714.9
30°	1215.8	1154.1	1123.2	1090.9	1231.3	2113.0	3025.5	3769.6	4004.1	4039.2
32.5°	1121.8	1088.1	1089.5	1095.1	1177.9	2073.7	3158.9	4064.5	4377.6	4433.7
35°	1034.7	1024.9	1053.0	1081.1	1100.7	1972.6	3275.4	4412.7	4839.5	4897.0
37.5°	960.3	968.7	1003.8	1031.9	1016.5	1829.4	3429.9	4847.9	5356.1	5405.3
40°	888.7	909.8	950.5	963.1	951.9	1662.3	3615.2	5267.7	5804.0	5871.4
42.5°	822.7	838.2	895.7	898.5	933.6	1492.4	3793.5	5719.7	6319.2	6354.3
45°	769.4	766.6	825.5	843.8	957.5	1304.3	3967.6	6322.0	6993.1	7043.7
47.5°	717.4	714.6	728.7	811.5	967.3	1130.2	4140.3	7203.7	7970.3	8057.3
50°	668.3	672.5	629.0	796.0	914.0	996.8	4218.9	8019.4	8859.0	8895.5
52.5°	624.8	609.3	533.5	745.5	800.3	870.5	3995.7	8390.1	9409.4	9513.3
55°	563.0	477.3	439.4	605.1	631.8	759.5	3272.6	8175.3	9457.1	9641.0
57.5°	481.6	374.9	373.5	446.5	446.5	704.8	2096.1	6984.7	8150.0	8472.9
60°	370.6	290.6	308.9	310.3	286.4	513.9	1176.5	5059.9	6025.8	6347.3
62.5°	263.9	221.8	233.1	185.3	164.3	256.9	564.4	2913.2	3719.1	3764.0
65°	176.9	150.2	122.1	102.5	101.1	109.5	233.1	1053.0	1280.4	1444.7
67.5°	116.5	91.3	64.6	64.6	73.0	73.0	88.4	174.1	244.3	223.2
70°	75.8	63.2	40.7	39.3	47.7	47.7	44.9	47.7	50.5	50.5
72.5°	56.2	47.7	23.9	21.1	26.7	28.1	25.3	23.9	23.9	23.9
75°	42.1	33.7	14.0	9.8	12.6	16.8	14.0	9.8	9.8	8.4
77.5°	16.8	12.6	5.6	4.2	7.0	9.8	8.4	4.2	2.8	2.8
80°	1.4	2.8	2.8	2.8	4.2	5.6	7.0	2.8	1.4	1.4
82.5°	0.0	1.4	1.4	1.4	2.8	4.2	5.6	2.8	1.4	1.4
85°	0.0	0.0	0.0	0.0	2.8	4.2	2.8	1.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.4	4.2	2.8	1.4	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

(END OF REPORT)