

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: P529746

Luminaire Tested: **GALN-SA4D-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18111 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 245
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



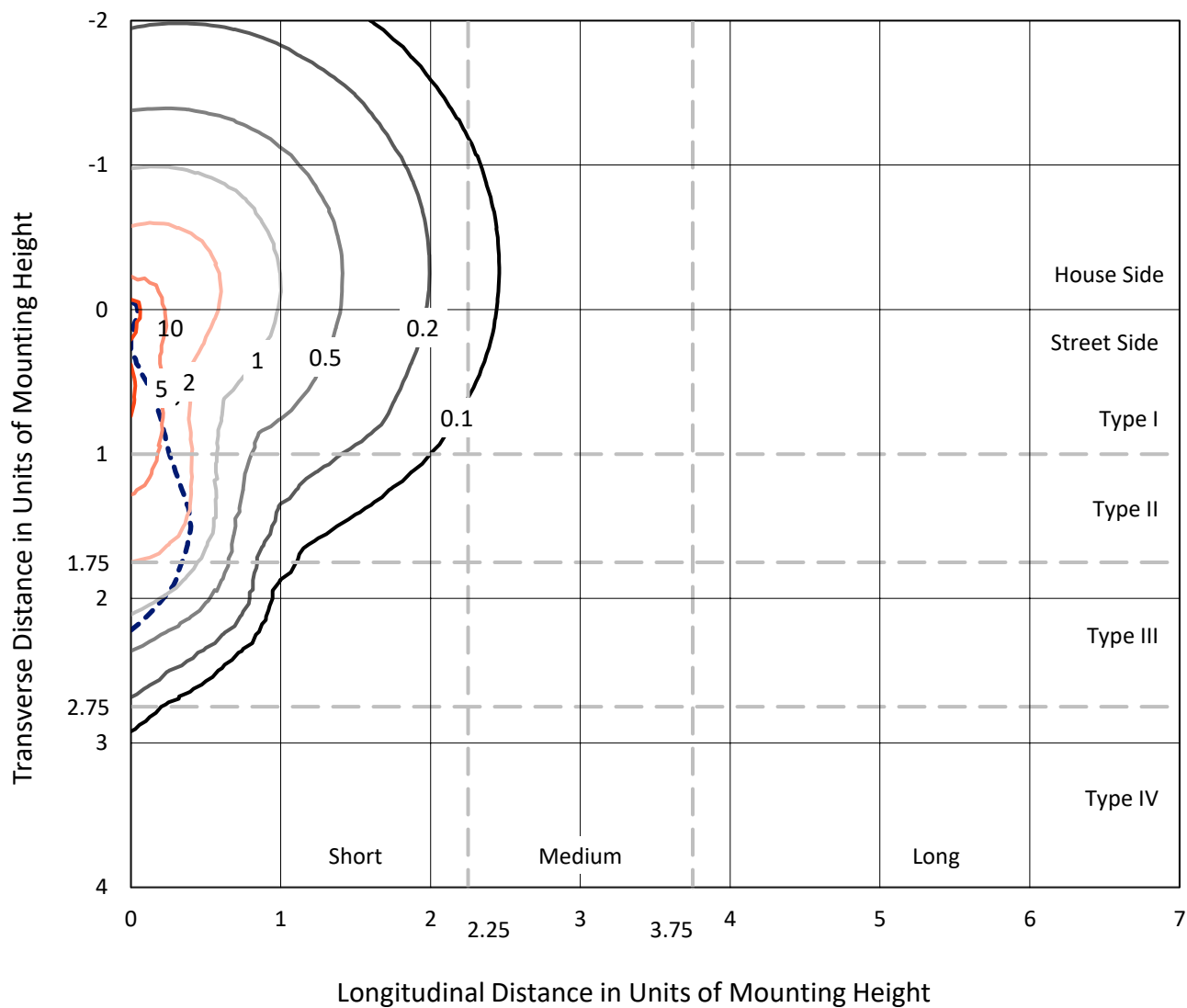
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

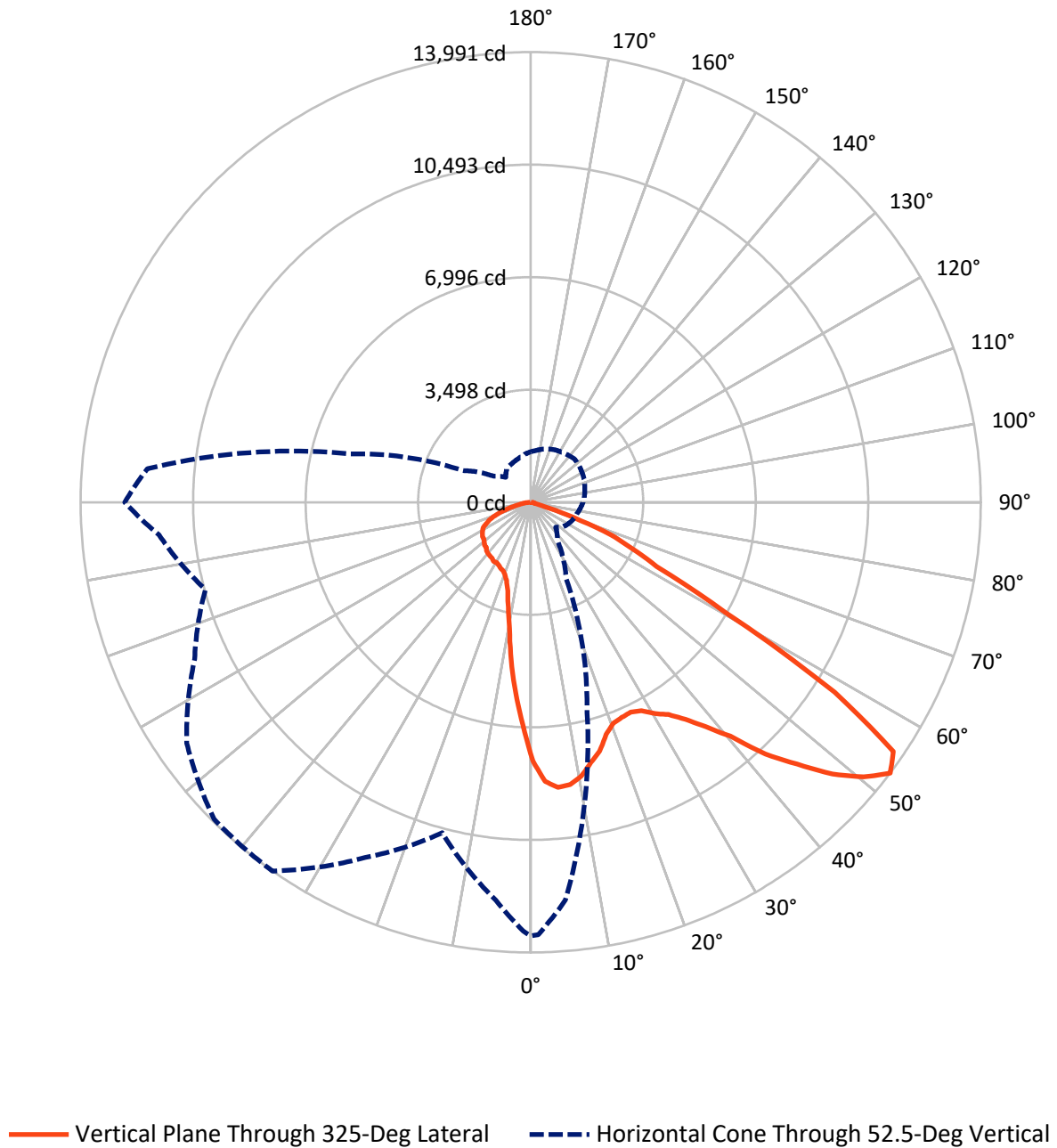
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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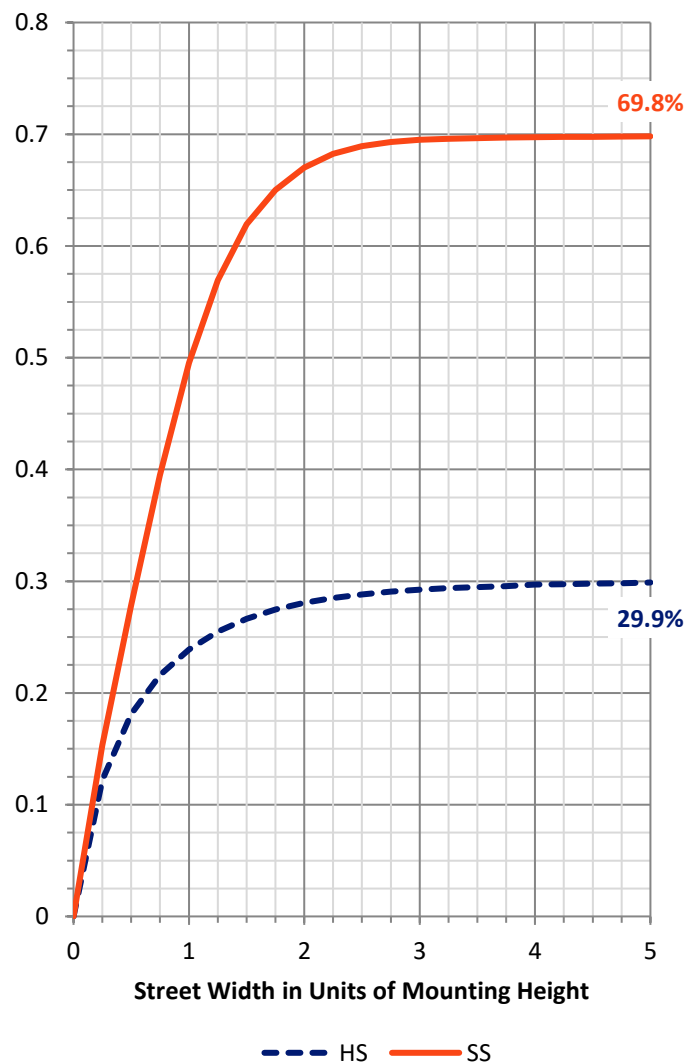
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5459.7	0.0	5459.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12651.3	0.0	12651.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	18111.0	0.0	18111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.2	3.4
10°-20°	1329.4	7.3
20°-30°	2008.5	11.1
30°-40°	2902.4	16.0
40°-50°	3862.6	21.3
50°-60°	4320.4	23.9
60°-70°	2435.0	13.4
70°-80°	542.8	3.0
80°-90°	96.7	0.5
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°	18111.0	100.0
0°-180°	18111.0	100.0

Coefficient of Utilization



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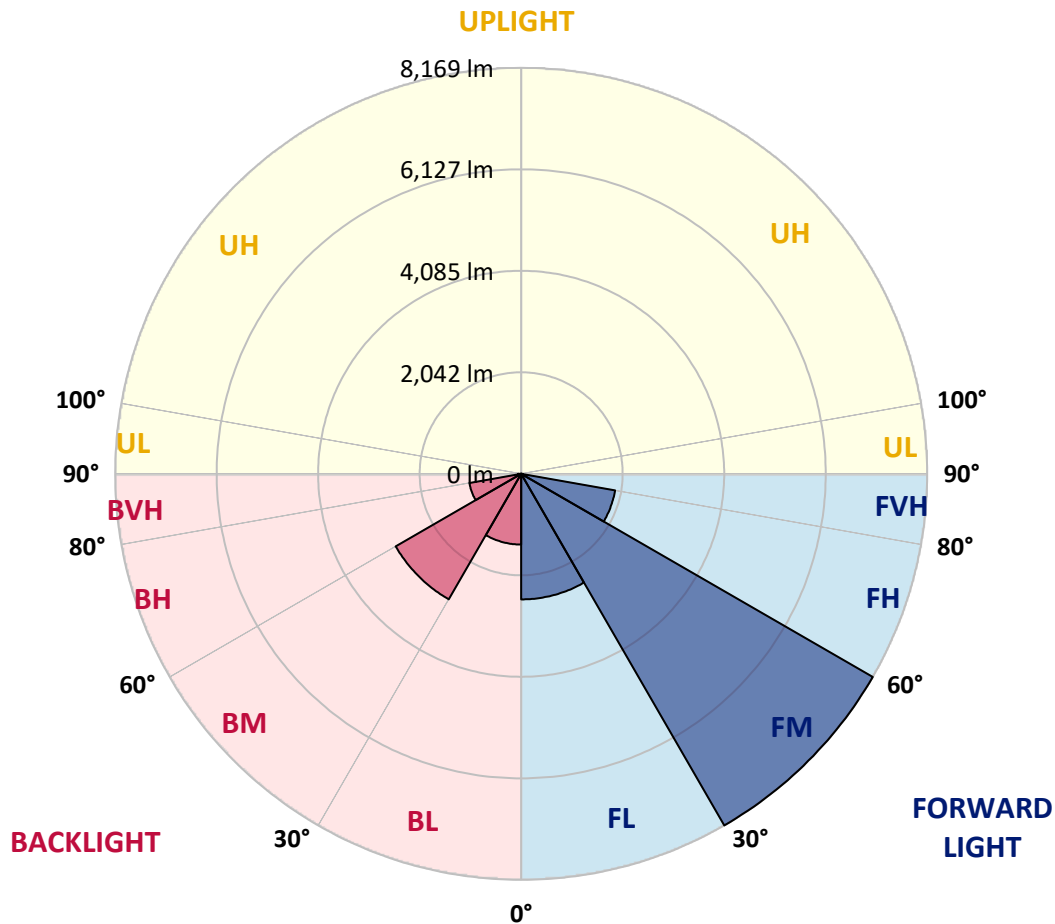
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2527.3	14.0			
FM	(30°-60°)	8169.5	45.1			
FH	(60°-80°)	1919.5	10.6			G2/5000
FVH	(80°-90°)	35.0	0.2			G1/100
BL	(0°-30°)	1423.8	7.9	B3/2500		
BM	(30°-60°)	2916.0	16.1	B3/5000		
BH	(60°-80°)	1058.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	61.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8
2.5°	8171.6	8302.9	8161.1	7909.1	7730.6	7567.9	7397.3	7363.1	7140.0	7100.6	6937.9
5°	7707.0	7678.1	7504.9	7174.1	6809.3	6478.5	6234.4	5998.1	5838.0	5651.6	5638.5
7.5°	7142.6	6974.6	6874.9	6373.5	5922.0	5402.3	5179.1	4819.5	4706.6	4538.6	4452.0
10°	6638.6	6515.3	6281.6	5780.3	5150.3	4806.4	4567.5	4373.3	4242.0	4068.8	3850.9
12.5°	6389.3	6339.4	6076.9	5299.9	4832.6	4465.1	4297.1	4108.1	3885.0	3606.8	3499.1
15°	6433.9	6265.9	6066.4	5208.0	4562.3	4207.9	3940.1	3703.9	3417.8	3152.6	2997.8
17.5°	6767.3	6638.6	6239.6	5265.8	4459.9	3948.0	3462.4	3113.3	2856.0	2617.1	2509.5
20°	7423.5	7237.1	6788.3	5339.3	4239.4	3585.8	3029.3	2598.8	2323.1	2197.1	2160.4
22.5°	8150.6	8040.4	7323.8	5504.6	4063.5	3249.8	2569.9	2139.4	2037.0	2002.9	2071.1
25°	9035.3	8749.2	8155.9	5775.0	3927.0	2963.6	2181.4	1942.5	1890.0	1924.1	2002.9
27.5°	9707.3	9631.2	8738.7	6029.6	3740.6	2619.8	1963.5	1806.0	1821.8	1855.9	1929.4
30°	10505.3	10119.4	9303.0	6205.5	3572.6	2383.5	1811.3	1769.3	1785.0	1842.8	1879.5
32.5°	10985.7	10841.3	9657.4	6470.6	3378.4	2178.8	1693.1	1653.8	1677.4	1764.0	1850.6
35°	11597.3	11311.2	10095.8	6538.9	3241.9	2097.4	1609.1	1580.3	1635.4	1695.8	1792.9
37.5°	12311.3	12114.4	10702.2	6491.6	3168.4	2013.4	1538.3	1525.1	1564.5	1648.5	1761.4
40°	12733.9	12673.5	11019.8	6520.5	3052.9	1939.9	1456.9	1472.6	1554.0	1619.6	1729.9
42.5°	13140.8	12747.0	11489.7	6510.0	2979.4	1840.1	1464.8	1446.4	1509.4	1585.5	1690.5
45°	13230.0	12838.9	11599.9	6436.5	2890.1	1743.0	1404.4	1412.3	1488.4	1582.9	1651.1
47.5°	13172.3	12883.5	11804.7	6415.5	2806.1	1674.8	1315.1	1409.6	1454.3	1530.4	1627.5
50°	13132.9	13117.2	11977.9	6515.3	2693.3	1567.1	1207.5	1375.5	1420.1	1496.3	1601.3
52.5°	13479.4	13445.3	12411.0	6777.8	2604.0	1451.6	1097.3	1288.9	1396.5	1470.0	1572.4
55°	13689.4	13539.8	13153.9	7100.6	2454.4	1299.4	1021.1	1181.3	1338.8	1404.4	1509.4
57.5°	12313.9	12211.5	11899.2	6628.1	2202.4	1099.9	926.6	1071.0	1260.0	1362.4	1470.0
60°	10245.4	10085.3	9284.7	5633.3	1624.9	855.8	868.9	984.4	1239.0	1278.4	1404.4
62.5°	9660.0	9263.7	8174.3	4533.4	1246.9	735.0	779.6	905.6	1128.8	1194.4	1320.4
65°	7665.0	7371.0	5848.5	3273.4	834.8	637.9	711.4	816.4	973.9	1102.5	1218.0
67.5°	4798.5	4517.6	3121.1	1548.8	582.8	546.0	635.3	745.5	874.1	989.6	1118.3
70°	2506.9	2199.8	1441.1	559.1	401.6	446.3	530.3	635.3	761.3	855.8	955.5
72.5°	934.5	758.6	469.9	241.5	278.3	341.3	430.5	506.6	595.9	711.4	766.5
75°	144.4	123.4	120.8	147.0	189.0	246.8	307.1	383.3	462.0	535.5	572.3
77.5°	68.3	65.6	73.5	97.1	126.0	175.9	223.1	296.6	359.6	406.9	427.9
80°	44.6	42.0	47.3	65.6	94.5	131.3	178.5	228.4	286.1	325.5	320.3
82.5°	26.3	28.9	28.9	44.6	65.6	94.5	128.6	173.3	212.6	246.8	225.8
85°	15.8	13.1	13.1	26.3	44.6	76.1	107.6	73.5	76.1	76.1	86.6
87.5°	5.3	5.3	5.3	2.6	5.3	5.3	7.9	13.1	15.8	18.4	23.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8
2.5°	6932.6	7014.0	6985.1	6882.8	6961.5	6974.6	6922.1	7103.3	7137.4	7082.3	7098.0
5°	5620.1	5641.1	5688.4	5788.1	5859.0	5943.0	5943.0	5948.3	5877.4	6055.9	6003.4
7.5°	4378.5	4391.6	4446.8	4659.4	4719.8	4879.9	4948.1	4900.9	4759.1	4698.8	4748.6
10°	3780.0	3703.9	3685.5	3711.8	3848.3	3916.5	3974.3	3958.5	3934.9	3887.6	3835.1
12.5°	3381.0	3325.9	3281.3	3218.3	3226.1	3291.8	3336.4	3299.6	3310.1	3320.6	3336.4
15°	2947.9	2908.5	2884.9	2790.4	2779.9	2824.5	2840.3	2861.3	2900.6	2903.3	2884.9
17.5°	2488.5	2454.4	2506.9	2559.4	2522.6	2525.3	2554.1	2572.5	2562.0	2514.8	2491.1
20°	2173.5	2210.3	2262.8	2312.6	2352.0	2375.6	2386.1	2357.3	2323.1	2226.0	2223.4
22.5°	2081.6	2128.9	2173.5	2249.6	2286.4	2346.8	2291.6	2226.0	2178.8	2131.5	2076.4
25°	2013.4	2052.8	2142.0	2170.9	2241.8	2291.6	2252.3	2186.6	2105.3	2037.0	1995.0
27.5°	1963.5	2008.1	2065.9	2144.6	2199.8	2228.6	2189.3	2163.0	2079.0	1997.6	1937.3
30°	1932.0	1979.3	2084.3	2149.9	2197.1	2220.8	2152.5	2121.0	2060.6	1992.4	1939.9
32.5°	1911.0	1953.0	2042.3	2126.3	2157.8	2157.8	2168.3	2131.5	2047.5	1932.0	1887.4
35°	1842.8	1900.5	1974.0	2071.1	2128.9	2163.0	2110.5	2068.5	2013.4	1895.3	1813.9
37.5°	1803.4	1842.8	1937.3	2029.1	2079.0	2115.8	2094.8	2021.3	1947.8	1850.6	1785.0
40°	1761.4	1824.4	1908.4	1995.0	2050.1	2086.9	2071.1	1984.5	1895.3	1803.4	1758.8
42.5°	1732.5	1774.5	1861.1	1958.3	2023.9	2094.8	2047.5	1939.9	1876.9	1750.9	1701.0
45°	1708.9	1777.1	1869.0	1908.4	1976.6	2050.1	1966.1	1900.5	1827.0	1735.1	1693.1
47.5°	1680.0	1743.0	1803.4	1908.4	1939.9	1974.0	1958.3	1853.3	1790.3	1690.5	1661.6
50°	1669.5	1693.1	1803.4	1861.1	1905.8	1939.9	1897.9	1819.1	1758.8	1656.4	1593.4
52.5°	1627.5	1672.1	1743.0	1819.1	1874.3	1916.3	1848.0	1798.1	1716.8	1609.1	1569.8
55°	1575.0	1601.3	1727.3	1806.0	1834.9	1863.8	1837.5	1756.1	1672.1	1561.9	1522.5
57.5°	1506.8	1567.1	1669.5	1779.8	1816.5	1832.3	1790.3	1724.6	1619.6	1522.5	1459.5
60°	1435.9	1498.9	1611.8	1701.0	1737.8	1795.5	1732.5	1693.1	1572.4	1464.8	1396.5
62.5°	1365.0	1435.9	1519.9	1632.8	1664.3	1687.9	1672.1	1617.0	1519.9	1399.1	1315.1
65°	1281.0	1333.5	1438.5	1496.3	1517.3	1572.4	1517.3	1496.3	1409.6	1294.1	1223.3
67.5°	1155.0	1199.6	1291.5	1346.6	1362.4	1386.0	1383.4	1359.8	1262.6	1183.9	1120.9
70°	1010.6	1050.0	1107.8	1173.4	1181.3	1210.1	1183.9	1178.6	1115.6	1008.0	973.9
72.5°	811.1	847.9	924.0	952.9	955.5	966.0	952.9	934.5	918.8	805.9	771.8
75°	622.1	643.1	679.9	706.1	706.1	719.3	711.4	693.0	651.0	580.1	546.0
77.5°	433.1	454.1	501.4	517.1	514.5	519.8	496.1	477.8	414.8	378.0	349.1
80°	315.0	328.1	351.8	362.3	364.9	372.8	343.9	328.1	291.4	249.4	236.3
82.5°	228.4	236.3	238.9	252.0	252.0	238.9	231.0	215.3	189.0	162.8	152.3
85°	94.5	97.1	99.8	115.5	118.1	141.8	131.3	123.4	107.6	91.9	84.0
87.5°	23.6	26.3	34.1	28.9	34.1	34.1	36.8	42.0	42.0	34.1	34.1
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°	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8
2.5°	7158.4	7179.4	7447.1	7481.3	7612.5	7746.4	8016.8	8211.0	8368.5	8470.9	8499.8
5°	6058.5	6192.4	6315.8	6515.3	6696.4	6953.6	7250.3	7617.8	8079.8	8316.0	8410.5
7.5°	4743.4	4900.9	5079.4	5273.6	5538.8	6000.8	6397.1	6822.4	7413.0	7657.1	8027.3
10°	3871.9	4047.8	4284.0	4433.6	4753.9	5194.9	5656.9	6147.8	6712.1	7063.9	7491.8
12.5°	3423.0	3567.4	3785.3	4100.3	4339.1	4625.3	4969.1	5588.6	6397.1	6730.5	7024.5
15°	2926.9	3087.0	3339.0	3688.1	3974.3	4315.5	4701.4	5376.0	6237.0	6751.5	7000.9
17.5°	2517.4	2632.9	2898.0	3199.9	3528.0	3900.8	4454.6	5365.5	6405.0	7063.9	7470.8
20°	2233.9	2249.6	2394.0	2651.3	3097.5	3583.1	4302.4	5313.0	6943.1	7602.0	8116.5
22.5°	2055.4	2039.6	2042.3	2260.1	2572.5	3270.8	4063.5	5491.5	7554.8	8457.8	8804.3
25°	1966.1	1924.1	1897.9	1945.1	2228.6	2900.6	3882.4	5727.8	8213.6	9163.9	9589.2
27.5°	1918.9	1845.4	1792.9	1800.8	2008.1	2714.3	3769.5	5830.1	8867.3	10148.3	10297.9
30°	1900.5	1808.6	1732.5	1706.3	1842.8	2454.4	3528.0	6006.0	9452.7	10689.0	10817.7
32.5°	1834.9	1722.0	1648.5	1624.9	1680.0	2226.0	3354.8	6132.0	9969.8	11277.0	11232.4
35°	1758.8	1664.3	1572.4	1527.8	1567.1	2079.0	3215.6	6071.6	10578.8	11733.8	11710.2
37.5°	1750.9	1627.5	1551.4	1477.9	1475.3	1897.9	3026.6	6129.4	10967.3	12552.8	12229.9
40°	1682.6	1603.9	1504.1	1443.8	1409.6	1806.0	2842.9	5992.9	11536.9	12883.5	12565.9
42.5°	1685.3	1567.1	1480.5	1409.6	1375.5	1672.1	2716.9	5956.1	11736.4	13421.7	12723.4
45°	1643.3	1527.8	1454.3	1370.3	1351.9	1569.8	2596.1	5785.5	12088.2	13447.9	12526.5
47.5°	1601.3	1498.9	1420.1	1320.4	1278.4	1533.0	2501.6	5643.8	11904.4	13201.2	12253.5
50°	1572.4	1454.3	1380.8	1309.9	1191.8	1470.0	2378.3	5609.6	11647.2	12867.8	11746.9
52.5°	1522.5	1417.5	1341.4	1286.3	1097.3	1412.3	2331.0	5809.1	11962.2	12618.4	11599.9
55°	1475.3	1367.6	1270.5	1162.9	1018.5	1260.0	2199.8	5995.5	12421.5	13193.3	12266.7
57.5°	1425.4	1323.0	1218.0	1089.4	942.4	1102.5	2063.3	6029.6	11560.5	12193.2	11644.5
60°	1359.8	1228.5	1149.8	981.8	861.0	913.5	1635.4	5315.6	8967.0	10182.4	10200.8
62.5°	1286.3	1144.5	1076.3	879.4	777.0	787.5	1333.5	4467.8	7273.9	8428.9	8930.3
65°	1189.1	1052.6	971.3	813.8	716.6	682.5	976.5	3273.4	5525.6	6838.1	7407.8
67.5°	1063.1	934.5	832.1	708.8	640.5	585.4	666.8	1842.8	3262.9	4591.1	4764.4
70°	929.3	819.0	711.4	609.0	532.9	493.5	488.3	816.4	1559.3	2470.1	2811.4
72.5°	732.4	653.6	567.0	490.9	441.0	383.3	349.1	338.6	527.6	1005.4	1388.6
75°	525.0	459.4	409.5	359.6	322.9	291.4	265.1	241.5	220.5	252.0	346.5
77.5°	330.8	307.1	267.8	254.6	233.6	225.8	215.3	202.1	186.4	175.9	175.9
80°	223.1	207.4	194.3	191.6	183.8	181.1	183.8	170.6	154.9	141.8	147.0
82.5°	149.6	147.0	144.4	141.8	144.4	147.0	152.3	149.6	136.5	128.6	131.3
85°	89.3	94.5	99.8	105.0	115.5	102.4	84.0	70.9	63.0	57.8	55.1
87.5°	34.1	47.3	42.0	39.4	42.0	39.4	36.8	34.1	28.9	26.3	26.3
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°	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8	8037.8
2.5°	8691.4	8743.9	8788.5	8778.0	8686.1	8562.8	8512.9	8258.3	8205.8	8171.6
5°	8809.5	9114.0	9179.7	9140.3	8901.4	8599.5	8305.5	7932.8	7714.9	7707.0
7.5°	8591.6	8967.0	9085.2	9174.4	8856.8	8331.8	7827.8	7268.6	7132.1	7142.6
10°	8037.8	8636.3	8927.7	9019.5	8654.6	8200.5	7502.3	6935.3	6643.9	6638.6
12.5°	7730.6	8200.5	8281.9	8410.5	8302.9	7843.5	7313.3	6678.0	6394.5	6389.3
15°	7457.6	7767.4	7791.0	7972.1	8029.9	7720.1	7363.1	6685.9	6457.5	6433.9
17.5°	7696.5	7481.3	7392.0	7415.6	7586.3	7699.1	7651.9	7132.1	6898.5	6767.3
20°	7856.6	7376.3	7105.9	7132.1	7334.3	7746.4	8082.4	7777.9	7407.8	7423.5
22.5°	8284.5	7392.0	6969.4	6940.5	7260.8	7993.1	8568.0	8594.3	8237.3	8150.6
25°	8925.0	7573.1	6927.4	6919.5	7226.6	8258.3	9135.0	9560.3	9195.4	9035.3
27.5°	9439.5	7856.6	7058.6	7084.9	7334.3	8473.5	9618.0	10182.4	9904.2	9707.3
30°	9891.0	8150.6	7242.4	7121.6	7623.0	8586.4	9825.4	10891.2	10668.0	10505.3
32.5°	10077.4	8568.0	7533.8	7334.3	7861.9	8722.9	10255.9	11578.9	11387.3	10985.7
35°	10392.4	8801.7	7691.3	7675.5	8279.3	9051.0	10458.0	12033.0	11954.3	11597.3
37.5°	10644.4	9037.9	8250.4	8077.1	8851.5	9602.3	10783.5	12660.4	12479.3	12311.3
40°	10838.7	9460.5	8772.8	9001.2	9555.0	10103.7	11082.8	12699.8	13222.2	12733.9
42.5°	10660.2	9838.5	9631.2	10177.2	10702.2	10675.9	11116.9	13004.3	13395.4	13140.8
45°	10615.5	10479.0	10988.3	11484.4	11605.2	11151.0	10872.8	12668.3	13342.9	13230.0
47.5°	10507.9	11109.0	11996.3	12804.8	12621.0	11468.7	10581.4	12607.9	13374.4	13172.3
50°	10471.2	11245.5	12741.8	13529.3	13419.0	11744.3	10444.9	12219.4	13151.3	13132.9
52.5°	10468.5	11526.4	13051.5	13923.0	13991.3	12180.0	10631.3	12416.3	13324.5	13479.4
55°	10586.7	11437.2	13012.2	13705.2	13678.9	11985.8	10652.3	12547.5	13537.2	13689.4
57.5°	9985.5	10245.4	10738.9	11287.5	11145.8	9927.8	9513.0	11599.9	12424.2	12313.9
60°	8623.1	7809.4	7252.9	7226.6	6951.0	6570.4	7785.8	10353.0	10353.0	10245.4
62.5°	7552.1	5126.6	4404.8	4200.0	4396.9	4835.3	7510.1	10069.5	9783.4	9660.0
65°	6604.5	3913.9	3184.1	3126.4	3467.6	4129.1	6790.9	8578.5	8074.5	7665.0
67.5°	4249.9	2866.5	2367.8	2265.4	2677.5	3031.9	4520.3	5276.3	4958.6	4798.5
70°	2740.5	1866.4	1317.8	1236.4	1396.5	1869.0	2887.5	3076.5	2614.5	2506.9
72.5°	1296.8	805.9	462.0	380.6	427.9	714.0	1141.9	1228.5	1021.1	934.5
75°	412.1	296.6	189.0	162.8	154.9	183.8	262.5	202.1	147.0	144.4
77.5°	183.8	175.9	149.6	126.0	110.3	91.9	76.1	63.0	65.6	68.3
80°	152.3	139.1	123.4	110.3	91.9	70.9	55.1	42.0	42.0	44.6
82.5°	133.9	120.8	107.6	91.9	78.8	57.8	42.0	28.9	26.3	26.3
85°	57.8	68.3	73.5	78.8	63.0	47.3	28.9	18.4	15.8	15.8
87.5°	23.6	21.0	18.4	15.8	13.1	13.1	10.5	7.9	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)