

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: P528810

Luminaire Tested: **GALN-SA3D-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528810
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-SA3D-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 13667 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 184
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



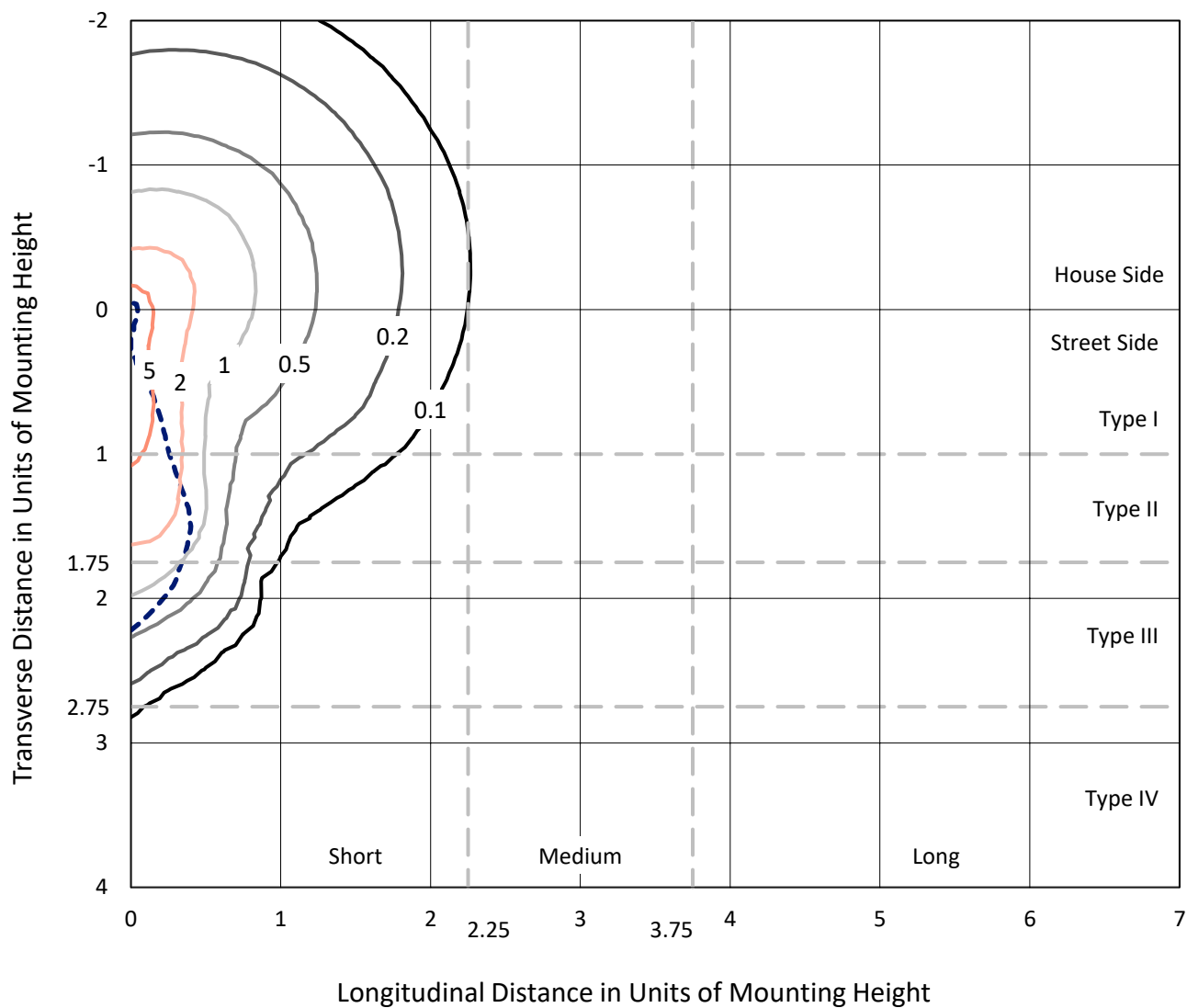
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

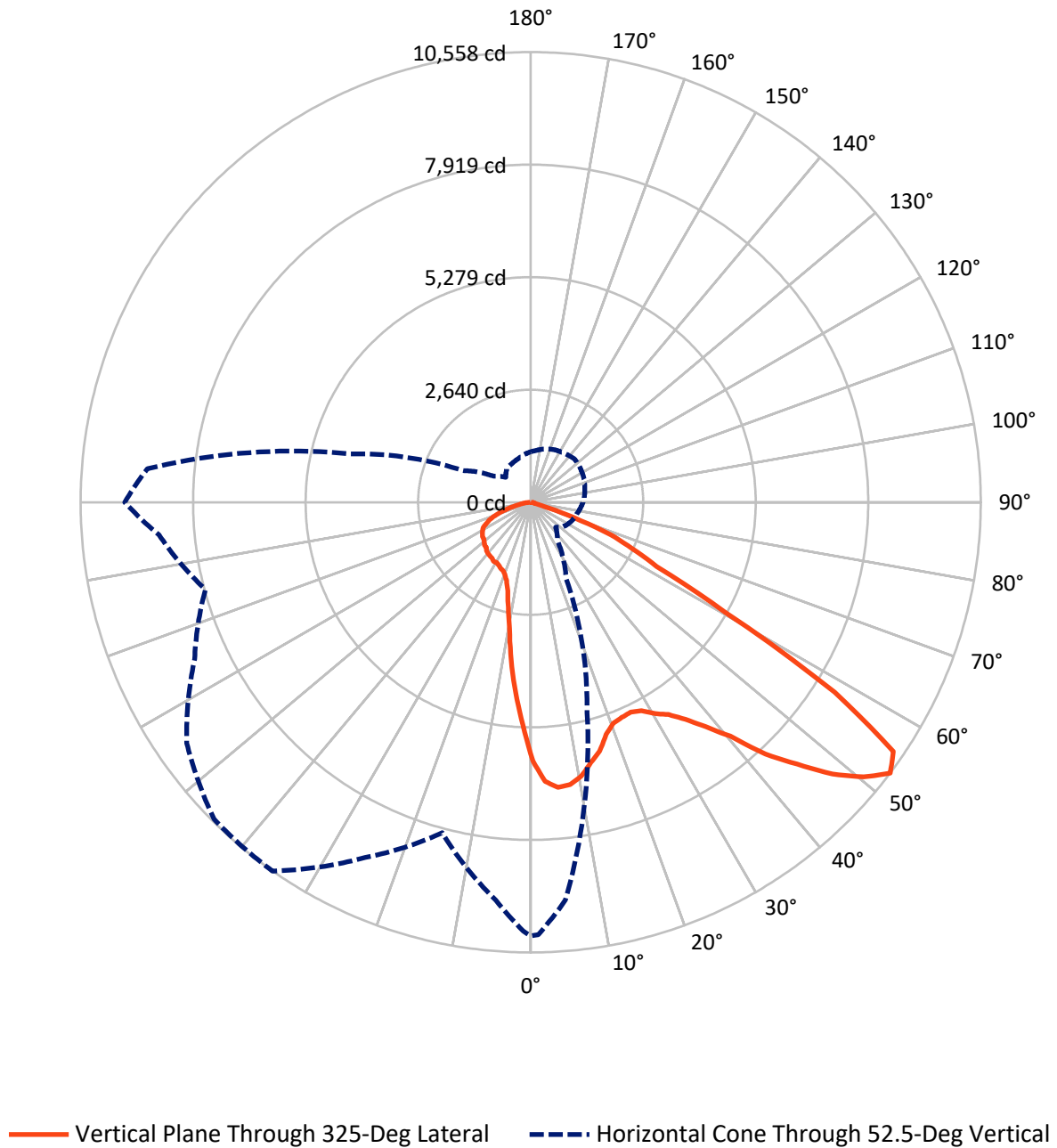


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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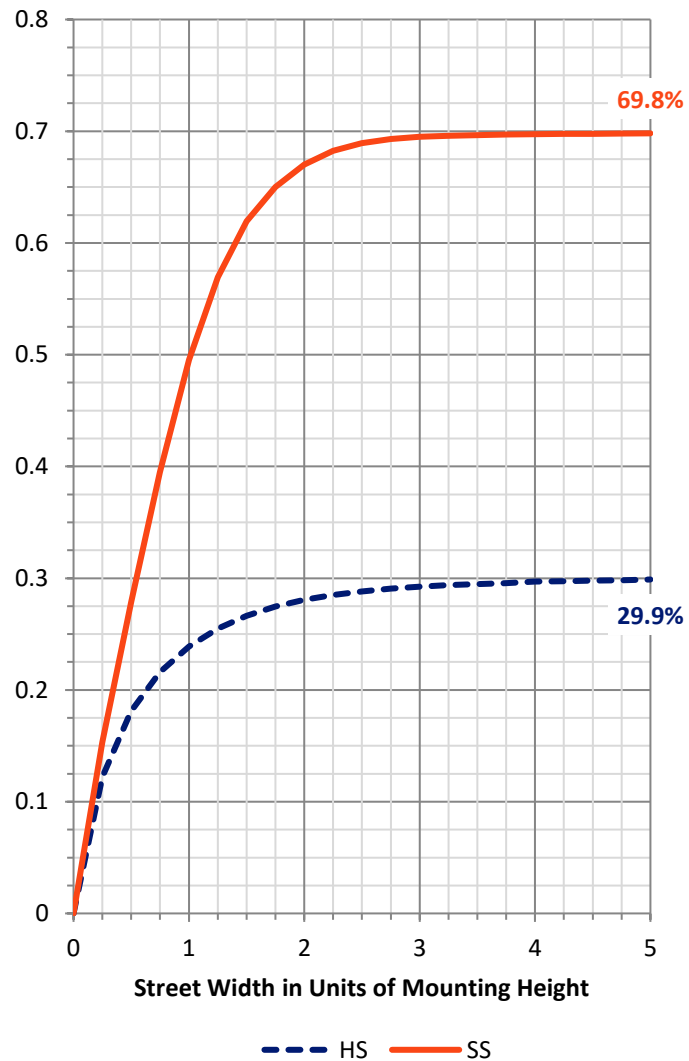
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4120.0	0.0	4120.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9547.0	0.0	9547.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	13667.0	0.0	13667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.7	3.4
10°-20°	1003.2	7.3
20°-30°	1515.7	11.1
30°-40°	2190.2	16.0
40°-50°	2914.8	21.3
50°-60°	3260.3	23.9
60°-70°	1837.5	13.4
70°-80°	409.6	3.0
80°-90°	72.9	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°	13667.0	100.0
0°-180°	13667.0	100.0

Coefficient of Utilization



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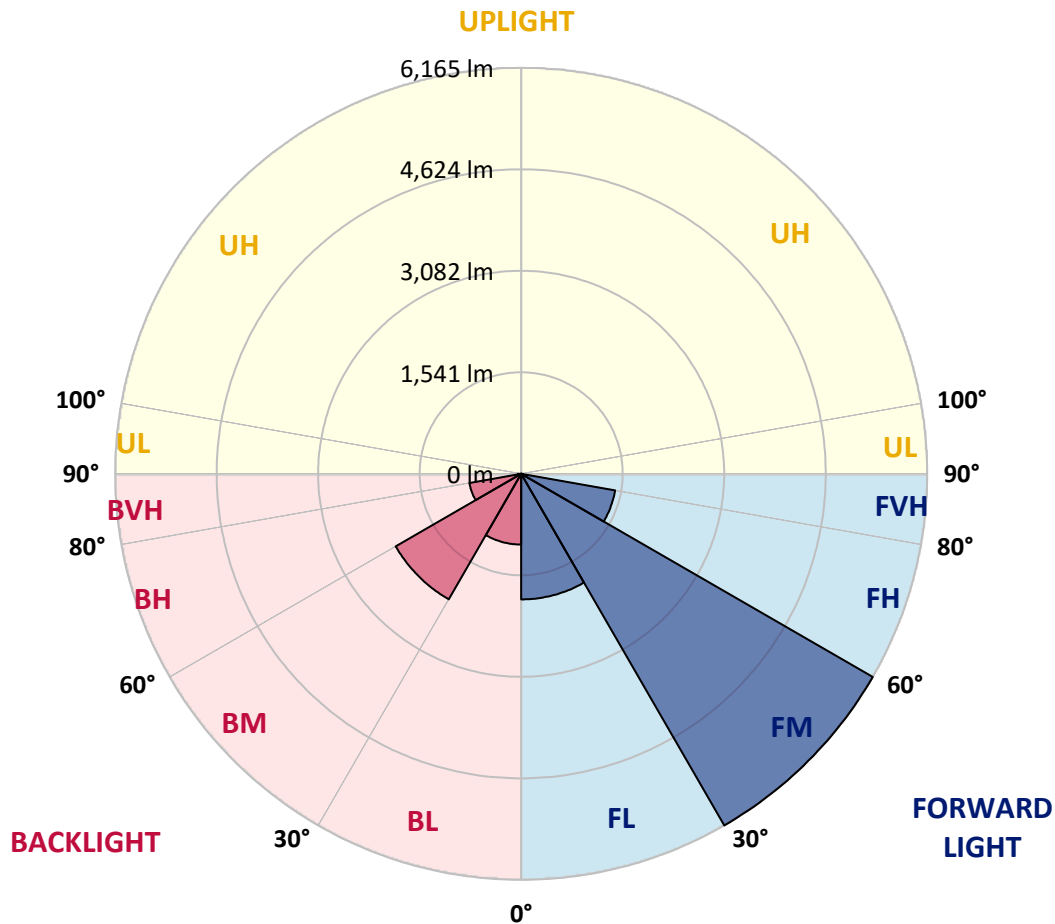
CATALOG NUMBER: GALN-SA3D-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1907.2	14.0			
FM	(30°-60°)	6164.9	45.1			
FH	(60°-80°)	1448.5	10.6			G1/1800
FVH	(80°-90°)	26.4	0.2			G1/100
BL	(0°-30°)	1074.4	7.9	B3/2500		
BM	(30°-60°)	2200.5	16.1	B2/2500		
BH	(60°-80°)	798.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	46.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5
2.5°	6166.5	6265.6	6158.6	5968.4	5833.7	5710.9	5582.2	5556.4	5388.0	5358.3	5235.5
5°	5815.9	5794.1	5663.4	5413.8	5138.4	4888.8	4704.6	4526.3	4405.5	4264.9	4255.0
7.5°	5390.0	5263.2	5188.0	4809.6	4468.9	4076.7	3908.3	3636.9	3551.7	3425.0	3359.6
10°	5009.7	4916.6	4740.3	4361.9	3886.5	3627.0	3446.8	3300.2	3201.1	3070.4	2906.0
12.5°	4821.5	4783.9	4585.8	3999.4	3646.8	3369.5	3242.7	3100.1	2931.7	2721.7	2640.5
15°	4855.2	4728.4	4577.8	3930.1	3442.8	3175.4	2973.3	2795.0	2579.1	2379.1	2262.2
17.5°	5106.7	5009.7	4708.6	3973.7	3365.5	2979.3	2612.8	2349.3	2155.2	1975.0	1893.7
20°	5602.0	5461.3	5122.6	4029.1	3199.1	2705.9	2286.0	1961.1	1753.1	1658.0	1630.3
22.5°	6150.7	6067.5	5526.7	4153.9	3066.4	2452.3	1939.3	1614.4	1537.2	1511.4	1562.9
25°	6818.2	6602.3	6154.6	4358.0	2963.4	2236.4	1646.1	1465.9	1426.2	1452.0	1511.4
27.5°	7325.3	7267.9	6594.4	4550.1	2822.8	1976.9	1481.7	1362.9	1374.7	1400.5	1456.0
30°	7927.5	7636.3	7020.3	4682.8	2696.0	1798.7	1366.8	1335.1	1347.0	1390.6	1418.3
32.5°	8290.0	8181.1	7287.7	4882.9	2549.4	1644.1	1277.7	1248.0	1265.8	1331.2	1396.5
35°	8751.6	8535.7	7618.5	4934.4	2446.4	1582.7	1214.3	1192.5	1234.1	1279.7	1353.0
37.5°	9290.4	9141.8	8076.1	4898.8	2390.9	1519.3	1160.8	1150.9	1180.6	1244.0	1329.2
40°	9609.3	9563.8	8315.8	4920.5	2303.8	1463.9	1099.4	1111.3	1172.7	1222.2	1305.4
42.5°	9916.4	9619.2	8670.4	4912.6	2248.3	1388.6	1105.3	1091.5	1139.0	1196.5	1275.7
45°	9983.7	9688.6	8753.6	4857.2	2181.0	1315.3	1059.8	1065.7	1123.2	1194.5	1246.0
47.5°	9940.1	9722.2	8908.1	4841.3	2117.6	1263.8	992.4	1063.7	1097.4	1154.9	1228.2
50°	9910.4	9898.5	9038.8	4916.6	2032.4	1182.6	911.2	1038.0	1071.7	1129.1	1208.3
52.5°	10171.9	10146.1	9365.7	5114.7	1965.0	1095.4	828.0	972.6	1053.8	1109.3	1186.6
55°	10330.4	10217.5	9926.3	5358.3	1852.1	980.5	770.6	891.4	1010.3	1059.8	1139.0
57.5°	9292.4	9215.1	8979.4	5001.8	1662.0	830.0	699.3	808.2	950.8	1028.1	1109.3
60°	7731.4	7610.6	7006.4	4251.0	1226.2	645.8	655.7	742.8	935.0	964.7	1059.8
62.5°	7289.7	6990.6	6168.5	3421.0	940.9	554.7	588.3	683.4	851.8	901.3	996.4
65°	5784.2	5562.4	4413.4	2470.2	629.9	481.4	536.8	616.1	734.9	832.0	919.1
67.5°	3621.1	3409.1	2355.3	1168.7	439.8	412.0	479.4	562.6	659.6	746.8	843.9
70°	1891.8	1660.0	1087.5	421.9	303.1	336.8	400.1	479.4	574.5	645.8	721.0
72.5°	705.2	572.5	354.6	182.2	210.0	257.5	324.9	382.3	449.7	536.8	578.4
75°	108.9	93.1	91.1	110.9	142.6	186.2	231.8	289.2	348.6	404.1	431.8
77.5°	51.5	49.5	55.5	73.3	95.1	132.7	168.4	223.8	271.4	307.0	322.9
80°	33.7	31.7	35.7	49.5	71.3	99.0	134.7	172.3	215.9	245.6	241.7
82.5°	19.8	21.8	21.8	33.7	49.5	71.3	97.1	130.7	160.5	186.2	170.4
85°	11.9	9.9	9.9	19.8	33.7	57.4	81.2	55.5	57.4	57.4	65.4
87.5°	4.0	4.0	4.0	2.0	4.0	4.0	5.9	9.9	11.9	13.9	17.8
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°	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5
2.5°	5231.5	5292.9	5271.2	5193.9	5253.3	5263.2	5223.6	5360.3	5386.1	5344.5	5356.3
5°	4241.1	4256.9	4292.6	4367.9	4421.4	4484.7	4484.7	4488.7	4435.2	4569.9	4530.3
7.5°	3304.1	3314.0	3355.6	3516.1	3561.6	3682.5	3734.0	3698.3	3591.4	3545.8	3583.4
10°	2852.5	2795.0	2781.2	2801.0	2904.0	2955.5	2999.1	2987.2	2969.4	2933.7	2894.1
12.5°	2551.4	2509.8	2476.1	2428.6	2434.5	2484.0	2517.7	2490.0	2497.9	2505.8	2517.7
15°	2224.5	2194.8	2177.0	2105.7	2097.8	2131.4	2143.3	2159.2	2188.9	2190.9	2177.0
17.5°	1877.9	1852.1	1891.8	1931.4	1903.6	1905.6	1927.4	1941.3	1933.4	1897.7	1879.9
20°	1640.2	1667.9	1707.5	1745.2	1774.9	1792.7	1800.6	1778.8	1753.1	1679.8	1677.8
22.5°	1570.8	1606.5	1640.2	1697.6	1725.4	1770.9	1729.3	1679.8	1644.1	1608.5	1566.9
25°	1519.3	1549.1	1616.4	1638.2	1691.7	1729.3	1699.6	1650.1	1588.7	1537.2	1505.5
27.5°	1481.7	1515.4	1559.0	1618.4	1660.0	1681.8	1652.1	1632.3	1568.9	1507.5	1461.9
30°	1457.9	1493.6	1572.8	1622.4	1658.0	1675.8	1624.3	1600.6	1555.0	1503.5	1463.9
32.5°	1442.1	1473.8	1541.1	1604.5	1628.3	1628.3	1636.2	1608.5	1545.1	1457.9	1424.3
35°	1390.6	1434.2	1489.6	1562.9	1606.5	1632.3	1592.6	1560.9	1519.3	1430.2	1368.8
37.5°	1360.9	1390.6	1461.9	1531.2	1568.9	1596.6	1580.8	1525.3	1469.8	1396.5	1347.0
40°	1329.2	1376.7	1440.1	1505.5	1547.1	1574.8	1562.9	1497.6	1430.2	1360.9	1327.2
42.5°	1307.4	1339.1	1404.5	1477.7	1527.3	1580.8	1545.1	1463.9	1416.3	1321.3	1283.6
45°	1289.6	1341.1	1410.4	1440.1	1491.6	1547.1	1483.7	1434.2	1378.7	1309.4	1277.7
47.5°	1267.8	1315.3	1360.9	1440.1	1463.9	1489.6	1477.7	1398.5	1351.0	1275.7	1253.9
50°	1259.8	1277.7	1360.9	1404.5	1438.1	1463.9	1432.2	1372.8	1327.2	1249.9	1202.4
52.5°	1228.2	1261.8	1315.3	1372.8	1414.4	1446.1	1394.5	1356.9	1295.5	1214.3	1184.6
55°	1188.5	1208.3	1303.4	1362.9	1384.6	1406.4	1386.6	1325.2	1261.8	1178.6	1148.9
57.5°	1137.0	1182.6	1259.8	1343.0	1370.8	1382.7	1351.0	1301.4	1222.2	1148.9	1101.4
60°	1083.5	1131.1	1216.3	1283.6	1311.4	1354.9	1307.4	1277.7	1186.6	1105.3	1053.8
62.5°	1030.1	1083.5	1146.9	1232.1	1255.9	1273.7	1261.8	1220.2	1146.9	1055.8	992.4
65°	966.7	1006.3	1085.5	1129.1	1145.0	1186.6	1145.0	1129.1	1063.7	976.6	923.1
67.5°	871.6	905.3	974.6	1016.2	1028.1	1045.9	1043.9	1026.1	952.8	893.4	845.8
70°	762.6	792.4	835.9	885.5	891.4	913.2	893.4	889.4	841.9	760.7	734.9
72.5°	612.1	639.8	697.3	719.1	721.0	729.0	719.1	705.2	693.3	608.1	582.4
75°	469.5	485.3	513.1	532.9	532.9	542.8	536.8	523.0	491.3	437.8	412.0
77.5°	326.8	342.7	378.4	390.2	388.3	392.2	374.4	360.5	313.0	285.2	263.5
80°	237.7	247.6	265.4	273.4	275.3	281.3	259.5	247.6	219.9	188.2	178.3
82.5°	172.3	178.3	180.3	190.2	190.2	180.3	174.3	162.4	142.6	122.8	114.9
85°	71.3	73.3	75.3	87.2	89.1	107.0	99.0	93.1	81.2	69.3	63.4
87.5°	17.8	19.8	25.8	21.8	25.8	25.8	27.7	31.7	31.7	25.8	25.8
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°	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5
2.5°	5401.9	5417.7	5619.8	5645.5	5744.6	5845.6	6049.7	6196.2	6315.1	6392.3	6414.1
5°	4571.9	4672.9	4766.0	4916.6	5053.3	5247.4	5471.2	5748.6	6097.2	6275.5	6346.8
7.5°	3579.5	3698.3	3833.0	3979.6	4179.7	4528.3	4827.4	5148.3	5594.0	5778.3	6057.6
10°	2921.8	3054.5	3232.8	3345.7	3587.4	3920.2	4268.8	4639.3	5065.1	5330.6	5653.5
12.5°	2583.1	2692.0	2856.4	3094.2	3274.4	3490.3	3749.8	4217.3	4827.4	5079.0	5300.9
15°	2208.7	2329.5	2519.7	2783.2	2999.1	3256.6	3547.8	4056.9	4706.6	5094.9	5283.0
17.5°	1899.7	1986.8	2186.9	2414.7	2662.3	2943.6	3361.6	4048.9	4833.4	5330.6	5637.6
20°	1685.7	1697.6	1806.6	2000.7	2337.5	2703.9	3246.7	4009.3	5239.5	5736.7	6124.9
22.5°	1551.0	1539.2	1541.1	1705.6	1941.3	2468.2	3066.4	4144.0	5701.0	6382.4	6643.9
25°	1483.7	1452.0	1432.2	1467.8	1681.8	2188.9	2929.7	4322.3	6198.2	6915.3	7236.2
27.5°	1448.0	1392.6	1353.0	1358.9	1515.4	2048.2	2844.6	4399.6	6691.5	7658.1	7771.0
30°	1434.2	1364.8	1307.4	1287.6	1390.6	1852.1	2662.3	4532.3	7133.2	8066.2	8163.3
32.5°	1384.6	1299.5	1244.0	1226.2	1267.8	1679.8	2531.6	4627.4	7523.4	8509.9	8476.2
35°	1327.2	1255.9	1186.6	1152.9	1182.6	1568.9	2426.6	4581.8	7983.0	8854.6	8836.8
37.5°	1321.3	1228.2	1170.7	1115.2	1113.3	1432.2	2284.0	4625.4	8276.2	9472.6	9229.0
40°	1269.8	1210.3	1135.1	1089.5	1063.7	1362.9	2145.3	4522.4	8706.0	9722.2	9482.5
42.5°	1271.7	1182.6	1117.2	1063.7	1038.0	1261.8	2050.2	4494.6	8856.6	10128.3	9601.4
45°	1240.0	1152.9	1097.4	1034.0	1020.2	1184.6	1959.1	4365.9	9122.0	10148.1	9452.8
47.5°	1208.3	1131.1	1071.7	996.4	964.7	1156.8	1887.8	4258.9	8983.4	9961.9	9246.8
50°	1186.6	1097.4	1042.0	988.5	899.3	1109.3	1794.7	4233.2	8789.2	9710.3	8864.5
52.5°	1148.9	1069.7	1012.2	970.6	828.0	1065.7	1759.0	4383.7	9026.9	9522.2	8753.6
55°	1113.3	1032.0	958.8	877.5	768.6	950.8	1660.0	4524.4	9373.6	9956.0	9256.7
57.5°	1075.6	998.4	919.1	822.1	711.1	832.0	1557.0	4550.1	8723.9	9201.3	8787.2
60°	1026.1	927.1	867.6	740.9	649.7	689.4	1234.1	4011.3	6766.7	7683.9	7697.8
62.5°	970.6	863.7	812.2	663.6	586.3	594.3	1006.3	3371.5	5489.1	6360.7	6739.0
65°	897.3	794.3	732.9	614.1	540.8	515.0	736.9	2470.2	4169.8	5160.2	5590.1
67.5°	802.3	705.2	627.9	534.8	483.3	441.7	503.1	1390.6	2462.3	3464.6	3595.3
70°	701.2	618.0	536.8	459.6	402.1	372.4	368.4	616.1	1176.7	1864.0	2121.5
72.5°	552.7	493.2	427.9	370.4	332.8	289.2	263.5	255.5	398.2	758.7	1047.9
75°	396.2	346.7	309.0	271.4	243.7	219.9	200.1	182.2	166.4	190.2	261.5
77.5°	249.6	231.8	202.1	192.1	176.3	170.4	162.4	152.5	140.6	132.7	132.7
80°	168.4	156.5	146.6	144.6	138.7	136.7	138.7	128.8	116.9	107.0	110.9
82.5°	112.9	110.9	108.9	107.0	108.9	110.9	114.9	112.9	103.0	97.1	99.0
85°	67.4	71.3	75.3	79.2	87.2	77.3	63.4	53.5	47.5	43.6	41.6
87.5°	25.8	35.7	31.7	29.7	31.7	29.7	27.7	25.8	21.8	19.8	19.8
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°	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5	6065.5
2.5°	6558.7	6598.4	6632.0	6624.1	6554.8	6461.7	6424.0	6231.9	6192.3	6166.5
5°	6647.9	6877.7	6927.2	6897.5	6717.2	6489.4	6267.5	5986.3	5821.8	5815.9
7.5°	6483.5	6766.7	6855.9	6923.2	6683.5	6287.4	5907.0	5485.1	5382.1	5390.0
10°	6065.5	6517.1	6737.0	6806.4	6531.0	6188.3	5661.4	5233.5	5013.6	5009.7
12.5°	5833.7	6188.3	6249.7	6346.8	6265.6	5918.9	5518.8	5039.4	4825.5	4821.5
15°	5627.7	5861.5	5879.3	6016.0	6059.6	5825.8	5556.4	5045.3	4873.0	4855.2
17.5°	5808.0	5645.5	5578.2	5596.0	5724.8	5810.0	5774.3	5382.1	5205.8	5106.7
20°	5928.8	5566.3	5362.3	5382.1	5534.6	5845.6	6099.2	5869.4	5590.1	5602.0
22.5°	6251.7	5578.2	5259.3	5237.5	5479.2	6031.8	6465.6	6485.4	6216.0	6150.7
25°	6735.0	5714.9	5227.6	5221.6	5453.4	6231.9	6893.5	7214.4	6939.1	6818.2
27.5°	7123.3	5928.8	5326.6	5346.4	5534.6	6394.3	7258.0	7683.9	7473.9	7325.3
30°	7464.0	6150.7	5465.3	5374.2	5752.5	6479.5	7414.5	8218.7	8050.4	7927.5
32.5°	7604.7	6465.6	5685.2	5534.6	5932.8	6582.5	7739.4	8737.7	8593.1	8290.0
35°	7842.4	6641.9	5804.0	5792.1	6247.7	6830.1	7891.9	9080.4	9021.0	8751.6
37.5°	8032.5	6820.2	6226.0	6095.2	6679.6	7246.1	8137.5	9553.9	9417.2	9290.4
40°	8179.1	7139.1	6620.1	6792.5	7210.5	7624.5	8363.3	9583.6	9977.8	9609.3
42.5°	8044.4	7424.4	7267.9	7679.9	8076.1	8056.3	8389.1	9813.4	10108.5	9916.4
45°	8010.7	7907.7	8292.0	8666.4	8757.5	8414.8	8204.9	9559.8	10068.9	9983.7
47.5°	7929.5	8383.1	9052.7	9662.8	9524.1	8654.5	7985.0	9514.2	10092.7	9940.1
50°	7901.8	8486.2	9615.3	10209.5	10126.3	8862.5	7882.0	9221.1	9924.3	9910.4
52.5°	7899.8	8698.1	9849.0	10506.7	10558.2	9191.3	8022.6	9369.6	10055.0	10171.9
55°	7988.9	8630.8	9819.3	10342.2	10322.4	9044.8	8038.5	9468.7	10215.5	10330.4
57.5°	7535.3	7731.4	8103.8	8517.8	8410.9	7491.7	7178.8	8753.6	9375.6	9292.4
60°	6507.2	5893.2	5473.2	5453.4	5245.4	4958.2	5875.3	7812.6	7812.6	7731.4
62.5°	5699.0	3868.7	3323.9	3169.4	3318.0	3648.8	5667.3	7598.7	7382.8	7289.7
65°	4983.9	2953.5	2402.8	2359.2	2616.8	3115.9	5124.6	6473.6	6093.2	5784.2
67.5°	3207.1	2163.1	1786.8	1709.5	2020.5	2287.9	3411.1	3981.6	3741.9	3621.1
70°	2068.1	1408.4	994.4	933.0	1053.8	1410.4	2179.0	2321.6	1973.0	1891.8
72.5°	978.6	608.1	348.6	287.2	322.9	538.8	861.7	927.1	770.6	705.2
75°	311.0	223.8	142.6	122.8	116.9	138.7	198.1	152.5	110.9	108.9
77.5°	138.7	132.7	112.9	95.1	83.2	69.3	57.4	47.5	49.5	51.5
80°	114.9	105.0	93.1	83.2	69.3	53.5	41.6	31.7	31.7	33.7
82.5°	101.0	91.1	81.2	69.3	59.4	43.6	31.7	21.8	19.8	19.8
85°	43.6	51.5	55.5	59.4	47.5	35.7	21.8	13.9	11.9	11.9
87.5°	17.8	15.8	13.9	11.9	9.9	9.9	7.9	5.9	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)