

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: P529278

Luminaire Tested: **GALN-SA4B-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529278
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-SA4B-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 13322 lumens
Efficiency: N/A
Efficacy: 81.2 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): 164
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



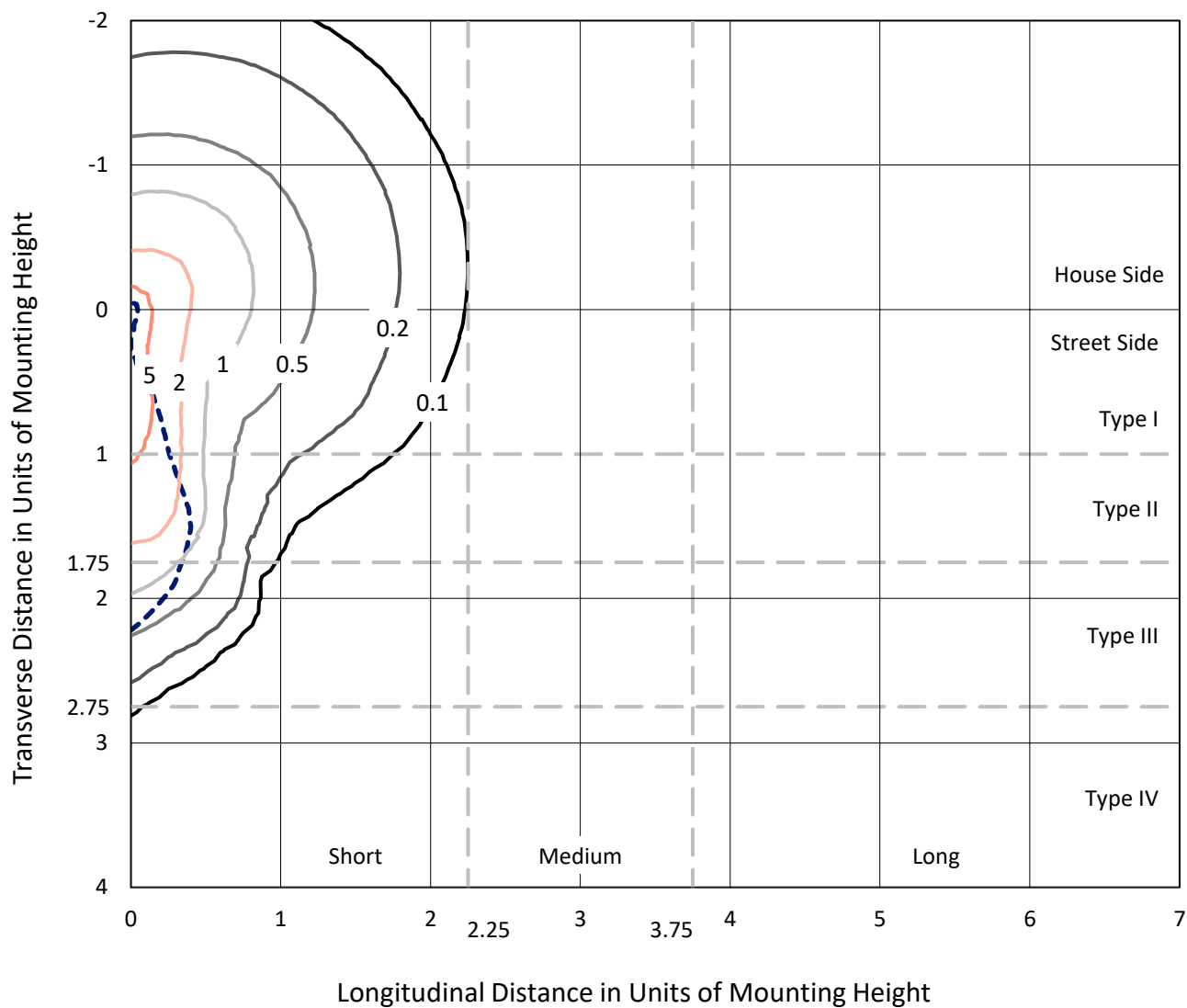
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

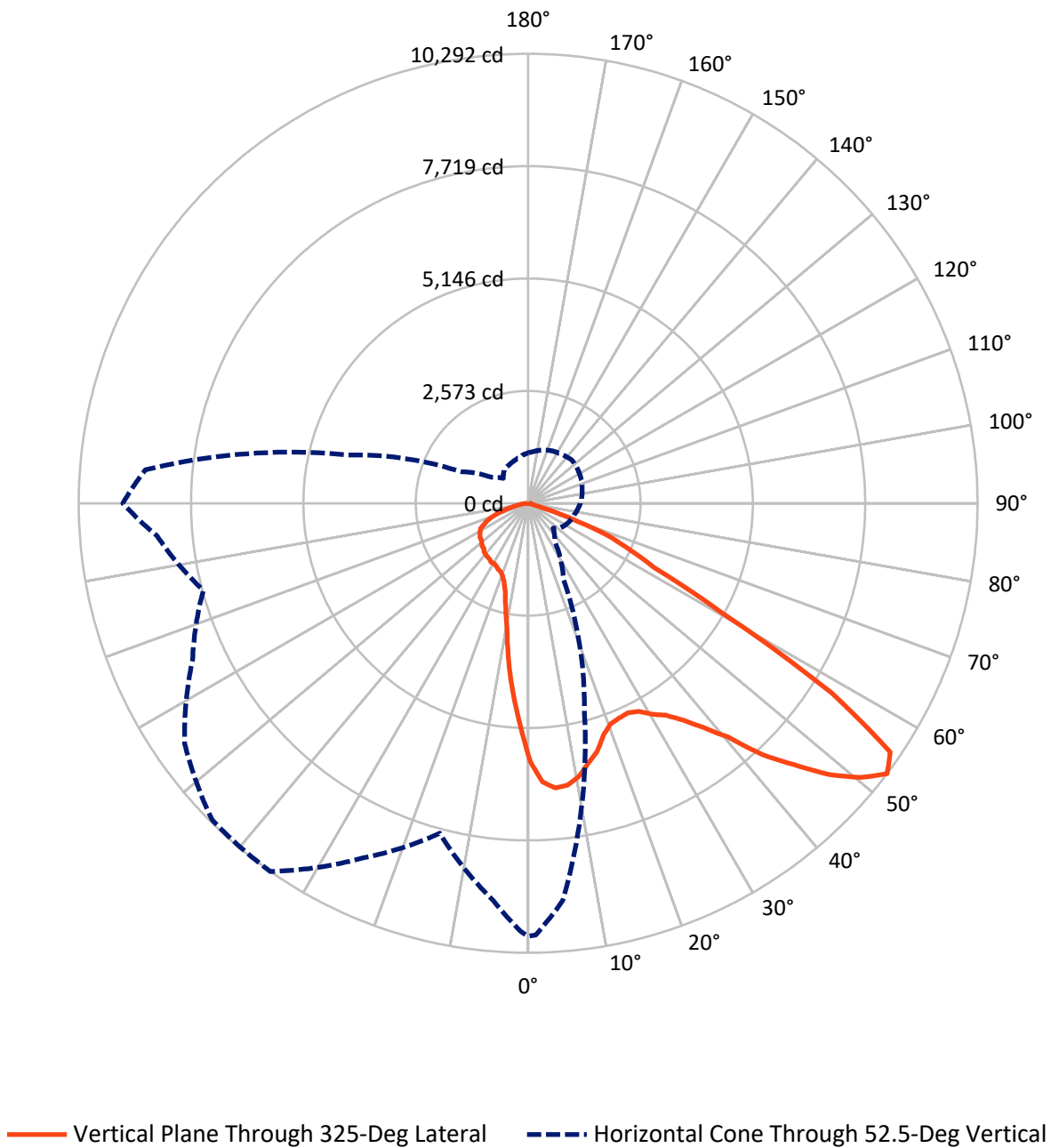


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4016.0	0.0	4016.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9306.0	0.0	9306.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	13322.0	0.0	13322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	3.4
10°-20°	977.8	7.3
20°-30°	1477.4	11.1
30°-40°	2135.0	16.0
40°-50°	2841.2	21.3
50°-60°	3178.0	23.9
60°-70°	1791.1	13.4
70°-80°	399.3	3.0
80°-90°	71.1	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°	13322.0	100.0
0°-180°	13322.0	100.0

Coefficient of Utilization



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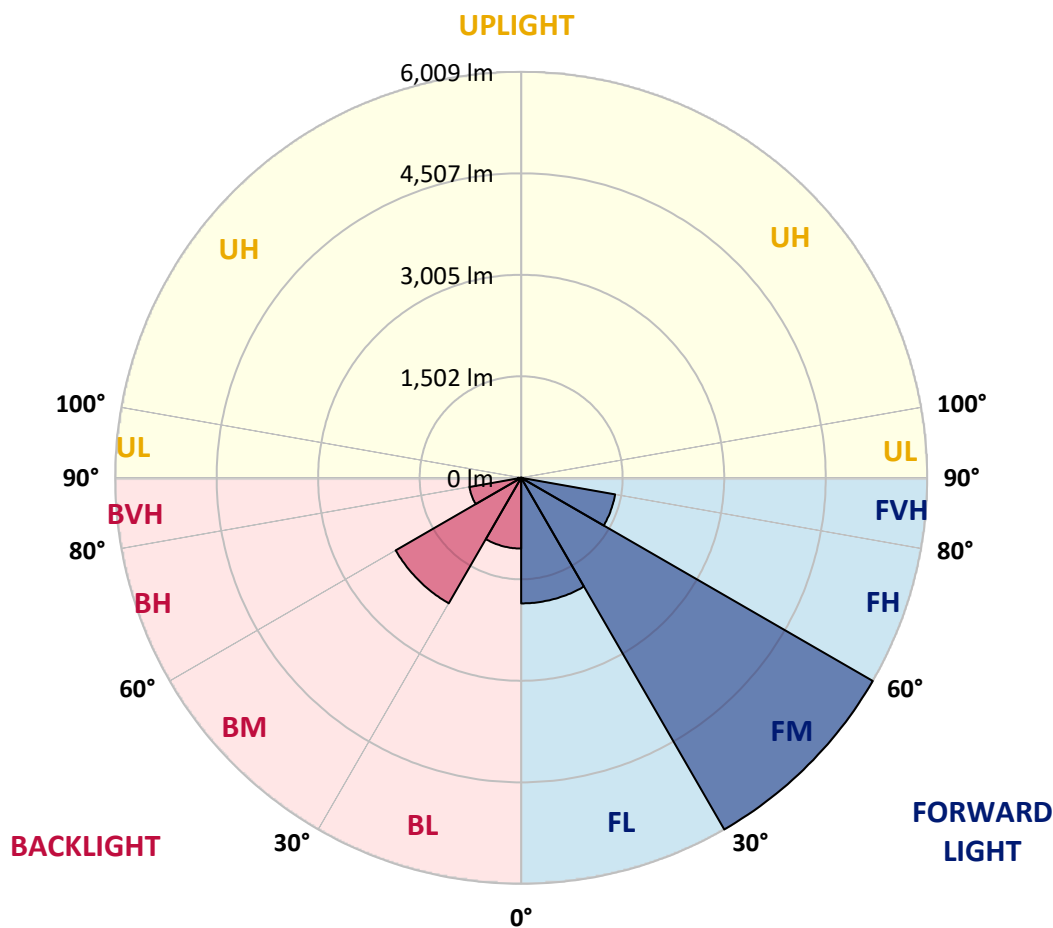
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1859.1	14.0			
FM	(30°-60°)	6009.2	45.1			
FH	(60°-80°)	1411.9	10.6			G1/1800
FVH	(80°-90°)	25.7	0.2			G1/100
BL	(0°-30°)	1047.3	7.9	B3/2500		
BM	(30°-60°)	2145.0	16.1	B2/2500		
BH	(60°-80°)	778.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	45.4	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°	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4
2.5°	6010.9	6107.4	6003.1	5817.8	5686.5	5566.8	5441.2	5416.1	5252.0	5223.1	5103.3
5°	5669.1	5647.9	5520.4	5277.1	5008.7	4765.4	4585.9	4412.1	4294.3	4157.2	4147.6
7.5°	5254.0	5130.4	5057.0	4688.2	4356.1	3973.8	3809.6	3545.1	3462.1	3338.5	3274.8
10°	4883.2	4792.5	4620.6	4251.8	3788.4	3535.5	3359.7	3216.9	3120.3	2992.9	2832.6
12.5°	4699.8	4663.1	4470.0	3898.5	3554.8	3284.4	3160.9	3021.8	2857.7	2653.0	2573.9
15°	4732.6	4609.0	4462.3	3830.9	3355.9	3095.2	2898.3	2724.5	2514.0	2319.0	2205.1
17.5°	4977.8	4883.2	4589.7	3873.4	3280.6	2904.1	2546.8	2290.0	2100.8	1925.1	1845.9
20°	5460.6	5323.5	4993.3	3927.4	3118.4	2637.6	2228.2	1911.6	1708.8	1616.2	1589.1
22.5°	5995.4	5914.3	5387.2	4049.1	2989.0	2390.4	1890.3	1573.7	1498.4	1473.3	1523.5
25°	6646.1	6435.7	5999.3	4248.0	2888.6	2180.0	1604.6	1428.9	1390.2	1415.3	1473.3
27.5°	7140.4	7084.4	6427.9	4435.3	2751.5	1927.0	1444.3	1328.5	1340.0	1365.1	1419.2
30°	7727.4	7443.6	6843.1	4564.6	2627.9	1753.2	1332.3	1301.4	1313.0	1355.5	1382.5
32.5°	8080.8	7974.6	7103.7	4759.6	2485.1	1602.6	1245.4	1216.5	1233.8	1297.6	1361.3
35°	8530.7	8320.2	7426.2	4809.8	2384.6	1542.8	1183.6	1162.4	1202.9	1247.4	1318.8
37.5°	9055.9	8911.1	7872.2	4775.1	2330.6	1481.0	1131.5	1121.8	1150.8	1212.6	1295.6
40°	9366.7	9322.3	8105.9	4796.3	2245.6	1426.9	1071.6	1083.2	1143.1	1191.4	1272.5
42.5°	9666.0	9376.4	8451.5	4788.6	2191.6	1353.6	1077.4	1063.9	1110.3	1166.3	1243.5
45°	9731.7	9444.0	8532.6	4734.5	2125.9	1282.1	1033.0	1038.8	1094.8	1164.3	1214.5
47.5°	9689.2	9476.8	8683.2	4719.1	2064.1	1231.9	967.4	1036.9	1069.7	1125.7	1197.2
50°	9660.2	9648.7	8810.7	4792.5	1981.1	1152.7	888.2	1011.8	1044.6	1100.6	1177.8
52.5°	9915.1	9890.0	9129.2	4985.6	1915.4	1067.8	807.1	948.1	1027.2	1081.3	1156.6
55°	10069.6	9959.5	9675.7	5223.1	1805.4	955.8	751.1	868.9	984.8	1033.0	1110.3
57.5°	9057.8	8982.5	8752.7	4875.5	1620.0	809.0	681.6	787.8	926.8	1002.1	1081.3
60°	7536.3	7418.5	6829.6	4143.7	1195.2	629.5	639.1	724.1	911.4	940.3	1033.0
62.5°	7105.7	6814.1	6012.8	3334.6	917.2	540.6	573.5	666.2	830.3	878.6	971.2
65°	5638.2	5421.9	4302.0	2407.8	614.0	469.2	523.3	600.5	716.4	811.0	895.9
67.5°	3529.7	3323.1	2295.8	1139.2	428.7	401.6	467.3	548.4	643.0	727.9	822.6
70°	1844.0	1618.1	1060.1	411.3	295.4	328.3	390.0	467.3	560.0	629.5	702.8
72.5°	687.4	558.0	345.6	177.6	204.7	251.0	316.7	372.7	438.3	523.3	563.8
75°	106.2	90.8	88.8	108.1	139.0	181.5	225.9	281.9	339.8	393.9	420.9
77.5°	50.2	48.3	54.1	71.4	92.7	129.4	164.1	218.2	264.5	299.3	314.7
80°	32.8	30.9	34.8	48.3	69.5	96.5	131.3	168.0	210.5	239.4	235.6
82.5°	19.3	21.2	21.2	32.8	48.3	69.5	94.6	127.4	156.4	181.5	166.1
85°	11.6	9.7	9.7	19.3	32.8	56.0	79.2	54.1	56.0	56.0	63.7
87.5°	3.9	3.9	3.9	1.9	3.9	3.9	5.8	9.7	11.6	13.5	17.4
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°	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4
2.5°	5099.5	5159.3	5138.1	5062.8	5120.7	5130.4	5091.8	5225.0	5250.1	5209.5	5221.1
5°	4134.0	4149.5	4184.2	4257.6	4309.7	4371.5	4371.5	4375.4	4323.3	4454.6	4415.9
7.5°	3220.7	3230.4	3270.9	3427.3	3471.7	3589.5	3639.7	3605.0	3500.7	3456.3	3493.0
10°	2780.5	2724.5	2711.0	2730.3	2830.7	2880.9	2923.4	2911.8	2894.4	2859.6	2821.0
12.5°	2487.0	2446.4	2413.6	2367.3	2373.1	2421.3	2454.2	2427.1	2434.9	2442.6	2454.2
15°	2168.4	2139.4	2122.0	2052.5	2044.8	2077.6	2089.2	2104.7	2133.6	2135.6	2122.0
17.5°	1830.5	1805.4	1844.0	1882.6	1855.6	1857.5	1878.8	1892.3	1884.5	1849.8	1832.4
20°	1598.8	1625.8	1664.4	1701.1	1730.1	1747.5	1755.2	1733.9	1708.8	1637.4	1635.5
22.5°	1531.2	1566.0	1598.8	1654.8	1681.8	1726.2	1685.7	1637.4	1602.6	1567.9	1527.3
25°	1481.0	1510.0	1575.6	1596.8	1649.0	1685.7	1656.7	1608.4	1548.6	1498.4	1467.5
27.5°	1444.3	1477.1	1519.6	1577.5	1618.1	1639.3	1610.4	1591.1	1529.3	1469.4	1425.0
30°	1421.1	1455.9	1533.1	1581.4	1616.2	1633.5	1583.3	1560.2	1515.7	1465.5	1426.9
32.5°	1405.7	1436.6	1502.2	1564.0	1587.2	1587.2	1594.9	1567.9	1506.1	1421.1	1388.3
35°	1355.5	1398.0	1452.0	1523.5	1566.0	1591.1	1552.4	1521.5	1481.0	1394.1	1334.2
37.5°	1326.5	1355.5	1425.0	1492.6	1529.3	1556.3	1540.9	1486.8	1432.7	1361.3	1313.0
40°	1295.6	1342.0	1403.8	1467.5	1508.0	1535.1	1523.5	1459.8	1394.1	1326.5	1293.7
42.5°	1274.4	1305.3	1369.0	1440.4	1488.7	1540.9	1506.1	1426.9	1380.6	1287.9	1251.2
45°	1257.0	1307.2	1374.8	1403.8	1454.0	1508.0	1446.2	1398.0	1343.9	1276.3	1245.4
47.5°	1235.8	1282.1	1326.5	1403.8	1426.9	1452.0	1440.4	1363.2	1316.9	1243.5	1222.3
50°	1228.0	1245.4	1326.5	1369.0	1401.8	1426.9	1396.0	1338.1	1293.7	1218.4	1172.1
52.5°	1197.2	1230.0	1282.1	1338.1	1378.7	1409.5	1359.3	1322.7	1262.8	1183.6	1154.7
55°	1158.5	1177.8	1270.5	1328.5	1349.7	1370.9	1351.6	1291.8	1230.0	1148.9	1119.9
57.5°	1108.3	1152.7	1228.0	1309.1	1336.2	1347.8	1316.9	1268.6	1191.4	1119.9	1073.6
60°	1056.2	1102.5	1185.6	1251.2	1278.2	1320.7	1274.4	1245.4	1156.6	1077.4	1027.2
62.5°	1004.1	1056.2	1118.0	1201.0	1224.2	1241.6	1230.0	1189.4	1118.0	1029.2	967.4
65°	942.3	980.9	1058.1	1100.6	1116.1	1156.6	1116.1	1100.6	1036.9	951.9	899.8
67.5°	849.6	882.4	950.0	990.5	1002.1	1019.5	1017.6	1000.2	928.8	870.8	824.5
70°	743.4	772.4	814.8	863.1	868.9	890.1	870.8	867.0	820.6	741.5	716.4
72.5°	596.6	623.7	679.7	700.9	702.8	710.6	700.9	687.4	675.8	592.8	567.7
75°	457.6	473.1	500.1	519.4	519.4	529.1	523.3	509.8	478.9	426.7	401.6
77.5°	318.6	334.0	368.8	380.4	378.5	382.3	364.9	351.4	305.1	278.0	256.8
80°	231.7	241.4	258.7	266.5	268.4	274.2	252.9	241.4	214.3	183.4	173.8
82.5°	168.0	173.8	175.7	185.4	185.4	175.7	169.9	158.3	139.0	119.7	112.0
85°	69.5	71.4	73.4	85.0	86.9	104.3	96.5	90.8	79.2	67.6	61.8
87.5°	17.4	19.3	25.1	21.2	25.1	25.1	27.0	30.9	30.9	25.1	25.1
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°	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4
2.5°	5265.5	5281.0	5477.9	5503.0	5599.6	5698.1	5896.9	6039.8	6155.7	6231.0	6252.2
5°	4456.5	4555.0	4645.7	4792.5	4925.7	5114.9	5333.1	5603.4	5943.3	6117.1	6186.6
7.5°	3489.1	3605.0	3736.3	3879.2	4074.2	4414.0	4705.6	5018.4	5452.8	5632.4	5904.7
10°	2848.1	2977.4	3151.2	3261.3	3496.8	3821.2	4161.1	4522.1	4937.3	5196.0	5510.8
12.5°	2517.9	2624.1	2784.3	3016.1	3191.8	3402.2	3655.2	4110.9	4705.6	4950.8	5167.1
15°	2152.9	2270.7	2456.1	2712.9	2923.4	3174.4	3458.2	3954.5	4587.8	4966.2	5149.7
17.5°	1851.7	1936.7	2131.7	2353.8	2595.1	2869.3	3276.7	3946.7	4711.4	5196.0	5495.3
20°	1643.2	1654.8	1761.0	1950.2	2278.5	2635.7	3164.7	3908.1	5107.2	5591.9	5970.3
22.5°	1511.9	1500.3	1502.2	1662.5	1892.3	2405.9	2989.0	4039.4	5557.1	6221.3	6476.2
25°	1446.2	1415.3	1396.0	1430.8	1639.3	2133.6	2855.8	4213.2	6041.8	6740.7	7053.5
27.5°	1411.5	1357.4	1318.8	1324.6	1477.1	1996.5	2772.8	4288.5	6522.5	7464.8	7574.9
30°	1398.0	1330.4	1274.4	1255.1	1355.5	1805.4	2595.1	4417.9	6953.1	7862.6	7957.2
32.5°	1349.7	1266.7	1212.6	1195.2	1235.8	1637.4	2467.7	4510.6	7333.5	8295.1	8262.3
35°	1293.7	1224.2	1156.6	1123.8	1152.7	1529.3	2365.3	4466.1	7781.5	8631.1	8613.7
37.5°	1287.9	1197.2	1141.2	1087.1	1085.2	1396.0	2226.3	4508.6	8067.3	9233.5	8996.0
40°	1237.7	1179.8	1106.4	1062.0	1036.9	1328.5	2091.2	4408.2	8486.3	9476.8	9243.2
42.5°	1239.6	1152.7	1089.0	1036.9	1011.8	1230.0	1998.5	4381.2	8633.0	9872.6	9359.0
45°	1208.7	1123.8	1069.7	1007.9	994.4	1154.7	1909.7	4255.7	8891.7	9891.9	9214.2
47.5°	1177.8	1102.5	1044.6	971.2	940.3	1127.6	1840.1	4151.4	8756.6	9710.4	9013.4
50°	1156.6	1069.7	1015.6	963.5	876.6	1081.3	1749.4	4126.3	8567.4	9465.2	8640.7
52.5°	1119.9	1042.7	986.7	946.1	807.1	1038.8	1714.6	4273.1	8799.1	9281.8	8532.6
55°	1085.2	1006.0	934.6	855.4	749.2	926.8	1618.1	4410.2	9137.0	9704.7	9023.0
57.5°	1048.5	973.2	895.9	801.3	693.2	811.0	1517.7	4435.3	8503.6	8969.0	8565.4
60°	1000.2	903.7	845.7	722.2	633.3	671.9	1202.9	3910.1	6595.9	7489.9	7503.4
62.5°	946.1	841.9	791.7	646.8	571.5	579.3	980.9	3286.4	5350.5	6200.1	6568.9
65°	874.7	774.3	714.4	598.6	527.1	502.0	718.3	2407.8	4064.5	5030.0	5449.0
67.5°	782.0	687.4	612.1	521.3	471.1	430.6	490.4	1355.5	2400.1	3377.1	3504.6
70°	683.5	602.4	523.3	448.0	392.0	363.0	359.1	600.5	1146.9	1817.0	2068.0
72.5°	538.7	480.8	417.1	361.1	324.4	281.9	256.8	249.1	388.1	739.5	1021.4
75°	386.2	337.9	301.2	264.5	237.5	214.3	195.0	177.6	162.2	185.4	254.9
77.5°	243.3	225.9	197.0	187.3	171.8	166.1	158.3	148.7	137.1	129.4	129.4
80°	164.1	152.5	142.9	141.0	135.2	133.2	135.2	125.5	113.9	104.3	108.1
82.5°	110.1	108.1	106.2	104.3	106.2	108.1	112.0	110.1	100.4	94.6	96.5
85°	65.7	69.5	73.4	77.2	85.0	75.3	61.8	52.1	46.3	42.5	40.5
87.5°	25.1	34.8	30.9	29.0	30.9	29.0	27.0	25.1	21.2	19.3	19.3
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°	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4	5912.4
2.5°	6393.2	6431.8	6464.6	6456.9	6389.3	6298.6	6261.9	6074.6	6036.0	6010.9
5°	6480.1	6704.1	6752.3	6723.4	6547.6	6325.6	6109.3	5835.1	5674.9	5669.1
7.5°	6319.8	6595.9	6682.8	6748.5	6514.8	6128.6	5757.9	5346.6	5246.2	5254.0
10°	5912.4	6352.6	6567.0	6634.5	6366.1	6032.1	5518.5	5101.4	4887.1	4883.2
12.5°	5686.5	6032.1	6092.0	6186.6	6107.4	5769.5	5379.5	4912.2	4703.6	4699.8
15°	5485.7	5713.5	5730.9	5864.1	5906.6	5678.7	5416.1	4918.0	4750.0	4732.6
17.5°	5661.4	5503.0	5437.4	5454.8	5580.3	5663.3	5628.5	5246.2	5074.4	4977.8
20°	5779.2	5425.8	5226.9	5246.2	5394.9	5698.1	5945.2	5721.2	5449.0	5460.6
22.5°	6093.9	5437.4	5126.5	5105.3	5340.8	5879.6	6302.4	6321.7	6059.1	5995.4
25°	6565.0	5570.6	5095.6	5089.8	5315.7	6074.6	6719.5	7032.3	6763.9	6646.1
27.5°	6943.5	5779.2	5192.2	5211.5	5394.9	6232.9	7074.8	7489.9	7285.2	7140.4
30°	7275.6	5995.4	5327.3	5238.5	5607.3	6315.9	7227.3	8011.3	7847.1	7727.4
32.5°	7412.7	6302.4	5541.7	5394.9	5783.0	6416.3	7544.0	8517.2	8376.2	8080.8
35°	7644.4	6474.3	5657.5	5645.9	6090.0	6657.7	7692.7	8851.2	8793.3	8530.7
37.5°	7829.8	6648.1	6068.8	5941.3	6511.0	7063.2	7932.1	9312.7	9179.5	9055.9
40°	7972.6	6958.9	6453.0	6621.0	7028.4	7432.0	8152.2	9341.6	9725.9	9366.7
42.5°	7841.3	7237.0	7084.4	7486.1	7872.2	7852.9	8177.3	9565.6	9853.3	9666.0
45°	7808.5	7708.1	8082.7	8447.6	8536.5	8202.4	7997.7	9318.5	9814.7	9731.7
47.5°	7729.4	8171.5	8824.2	9418.9	9283.7	8436.1	7783.4	9274.1	9837.9	9689.2
50°	7702.3	8271.9	9372.5	9951.8	9870.7	8638.8	7683.0	8988.3	9673.8	9660.2
52.5°	7700.4	8478.5	9600.4	10241.4	10291.6	8959.3	7820.1	9133.1	9801.2	9915.1
55°	7787.3	8412.9	9571.4	10081.2	10061.9	8816.4	7835.6	9229.7	9957.6	10069.6
57.5°	7345.1	7536.3	7899.3	8302.8	8198.6	7302.6	6997.5	8532.6	9138.9	9057.8
60°	6343.0	5744.4	5335.0	5315.7	5113.0	4833.0	5727.0	7615.4	7615.4	7536.3
62.5°	5555.2	3771.0	3240.0	3089.4	3234.2	3556.7	5524.3	7406.9	7196.4	7105.7
65°	4858.1	2879.0	2342.2	2299.7	2550.7	3037.3	4995.2	6310.1	5939.4	5638.2
67.5°	3126.1	2108.5	1741.7	1666.4	1969.5	2230.2	3325.0	3881.1	3647.5	3529.7
70°	2015.8	1372.9	969.3	909.4	1027.2	1374.8	2124.0	2263.0	1923.2	1844.0
72.5°	953.9	592.8	339.8	280.0	314.7	525.2	839.9	903.7	751.1	687.4
75°	303.1	218.2	139.0	119.7	113.9	135.2	193.1	148.7	108.1	106.2
77.5°	135.2	129.4	110.1	92.7	81.1	67.6	56.0	46.3	48.3	50.2
80°	112.0	102.3	90.8	81.1	67.6	52.1	40.5	30.9	30.9	32.8
82.5°	98.5	88.8	79.2	67.6	57.9	42.5	30.9	21.2	19.3	19.3
85°	42.5	50.2	54.1	57.9	46.3	34.8	21.2	13.5	11.6	11.6
87.5°	17.4	15.4	13.5	11.6	9.7	9.7	7.7	5.8	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)