

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: P452003

Luminaire Tested: **GALN-SA2D-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10656 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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



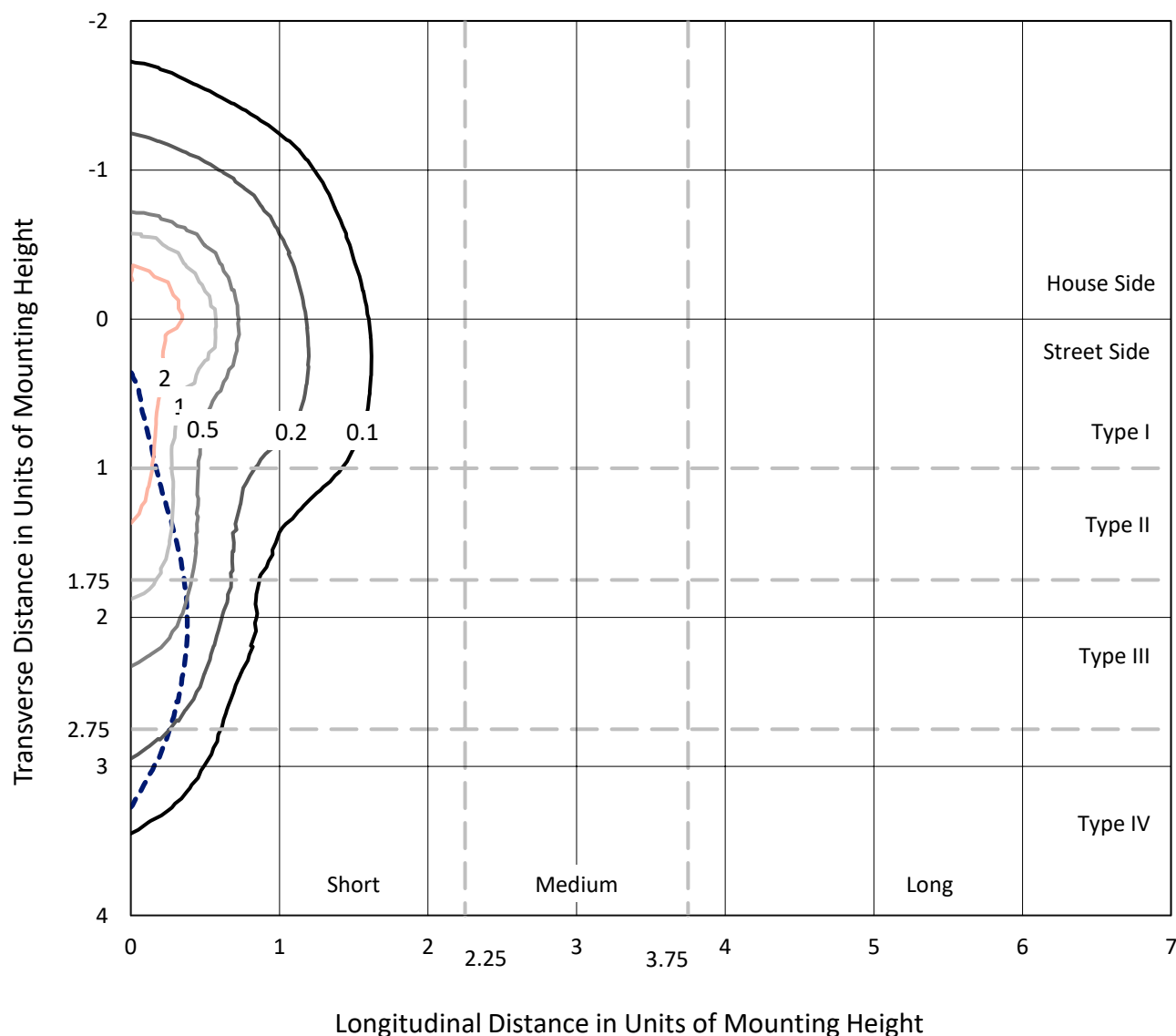
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



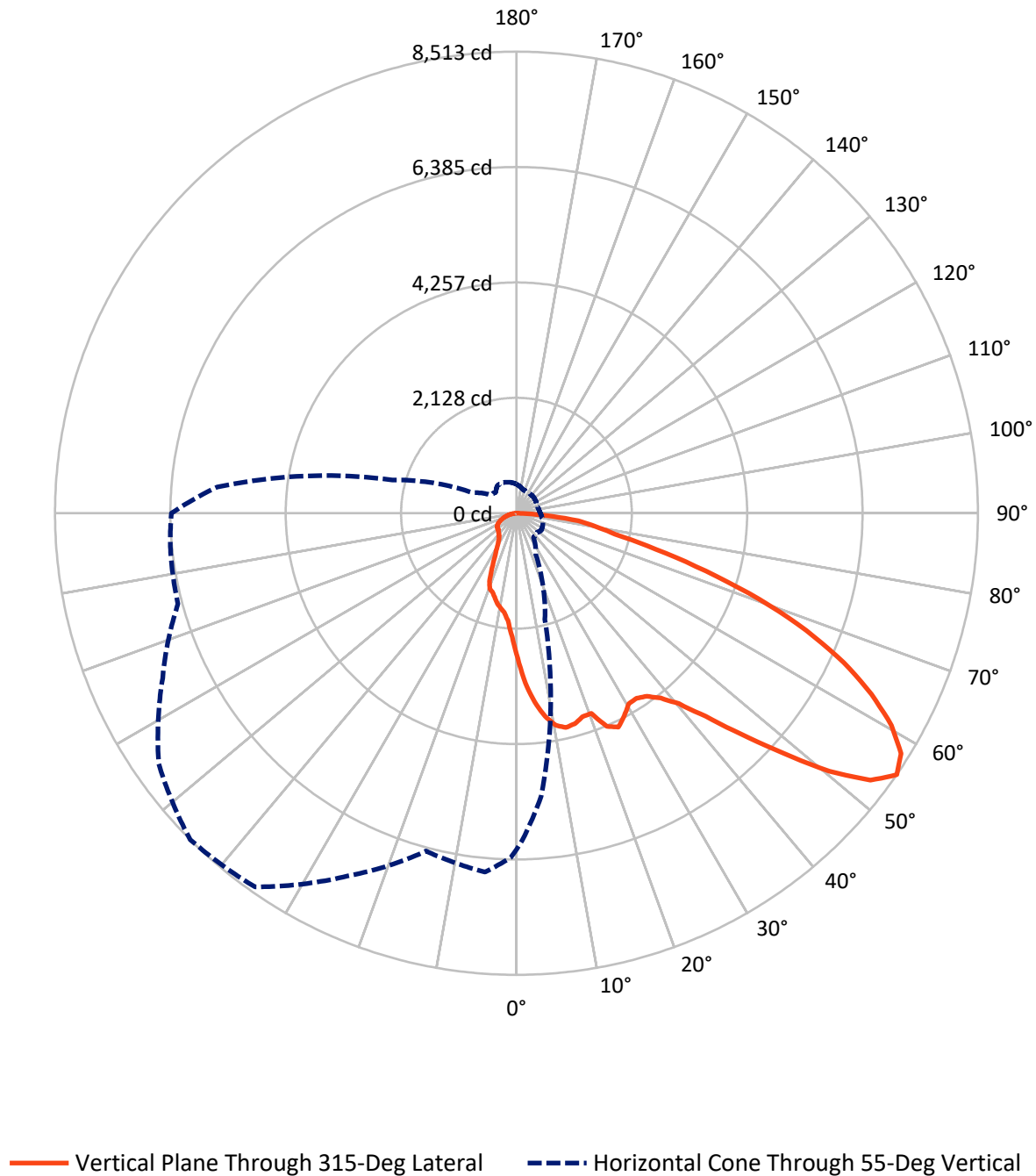
Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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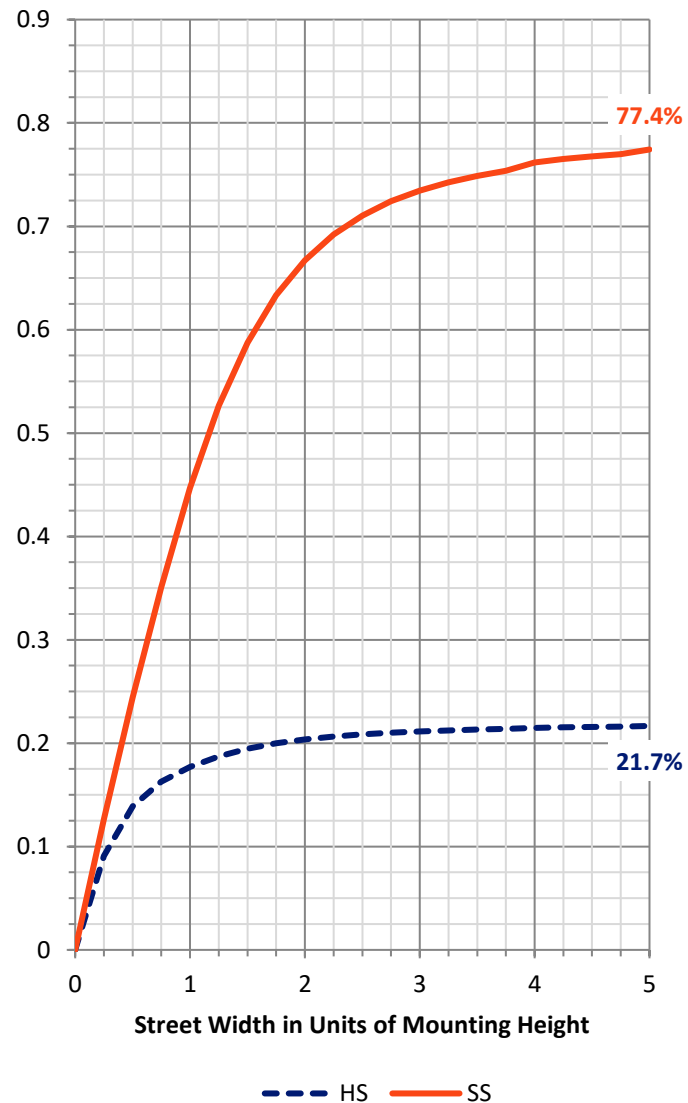
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2331.0	0.0	2331.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8325.1	0.0	8325.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	10656.0	0.0	10656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	2.1
10°-20°	601.3	5.6
20°-30°	1038.8	9.7
30°-40°	1207.2	11.3
40°-50°	1684.3	15.8
50°-60°	2285.5	21.4
60°-70°	2174.3	20.4
70°-80°	1174.6	11.0
80°-90°	263.3	2.5
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°	10656.0	100.0
0°-180°	10656.0	100.0

Coefficient of Utilization



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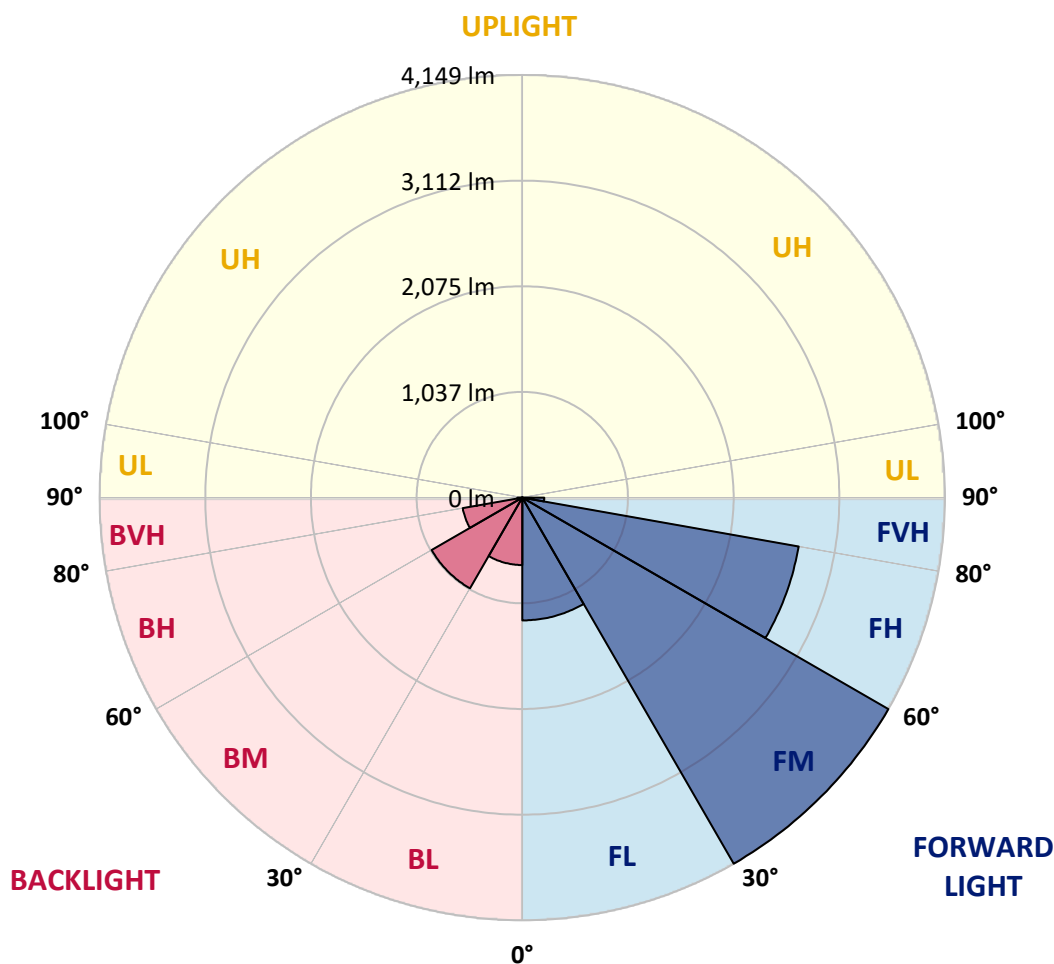
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1205.2	11.3			
FM	(30°-60°)	4149.2	38.9			
FH	(60°-80°)	2755.5	25.9			G2/5000
FVH	(80°-90°)	215.1	2.0			G2/225
BL	(0°-30°)	661.5	6.2	B2/1000		
BM	(30°-60°)	1027.8	9.6	B2/2500		
BH	(60°-80°)	593.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	48.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2
2.5°	2970.9	2959.7	2928.0	2845.1	2761.4	2676.3	2611.0	2529.4	2444.4	2398.7	2340.3
5°	3011.7	2999.0	2924.5	2737.5	2568.1	2390.2	2248.2	2123.8	2073.2	1998.6	1938.9
7.5°	2916.1	2910.5	2798.7	2530.1	2298.1	2065.4	1904.4	1804.6	1713.9	1680.2	1687.2
10°	2828.9	2806.4	2666.5	2315.7	2045.0	1855.9	1740.6	1642.9	1579.0	1562.1	1565.6
12.5°	2756.5	2726.3	2561.1	2171.6	1934.7	1783.5	1636.6	1534.7	1476.3	1492.5	1547.3
15°	2741.7	2701.0	2516.8	2122.4	1874.2	1679.5	1518.5	1401.1	1357.5	1392.7	1480.5
17.5°	2837.3	2786.0	2592.7	2138.5	1816.6	1573.3	1375.8	1241.5	1205.0	1261.2	1375.8
20°	3144.6	3068.6	2829.6	2232.0	1810.9	1520.6	1292.8	1157.9	1173.3	1280.2	1399.7
22.5°	3712.6	3598.7	3244.4	2368.4	1840.5	1507.2	1276.0	1205.7	1290.7	1381.4	1460.1
25°	3825.1	3735.8	3318.9	2399.4	1834.1	1498.1	1323.8	1358.9	1453.8	1498.8	1471.4
27.5°	3888.3	3786.4	3314.0	2246.1	1640.1	1358.9	1265.4	1323.8	1347.7	1304.1	1229.6
30°	4036.0	3929.8	3397.6	2085.1	1350.5	1008.1	883.7	859.8	875.9	884.4	857.7
32.5°	4239.1	4134.4	3555.1	1979.7	1167.7	833.8	711.4	677.7	670.0	660.8	650.3
35°	4502.1	4341.1	3709.8	1912.2	1092.5	771.2	658.7	632.7	622.2	609.5	598.3
37.5°	4769.2	4600.5	3905.2	1841.2	1042.6	727.6	623.6	611.6	593.3	580.0	563.8
40°	5053.2	4864.1	4083.1	1779.3	994.1	699.5	598.3	596.9	573.0	557.5	538.5
42.5°	5299.3	5104.5	4241.9	1741.3	956.8	670.0	582.8	587.0	562.4	539.2	514.6
45°	5494.7	5303.5	4388.9	1741.3	926.6	640.4	580.0	577.2	552.6	523.7	495.6
47.5°	5666.2	5468.7	4532.3	1785.6	907.6	615.8	564.5	569.4	544.1	507.6	480.2
50°	5799.1	5624.8	4725.6	1854.5	888.6	596.2	544.8	571.5	537.1	499.1	467.5
52.5°	5968.5	5812.5	4958.3	1948.7	872.4	574.4	527.3	571.5	536.4	499.8	465.4
55°	6203.3	6038.8	5238.8	2026.8	846.4	554.0	511.8	555.4	534.3	496.3	459.8
57.5°	6367.8	6244.8	5437.1	2078.8	809.2	528.0	497.7	539.9	525.1	483.0	442.9
58°	6375.6	6255.4	5465.9	2090.7	800.0	523.0	494.2	532.9	520.9	477.3	437.3
60°	6287.0	6183.7	5471.5	2073.9	748.0	498.4	475.9	504.1	498.4	444.3	407.0
62.5°	5965.0	5854.6	5244.4	1936.8	679.1	468.2	447.8	465.4	452.7	397.9	363.5
65°	5507.4	5304.2	4777.6	1721.7	629.9	435.9	409.9	411.3	397.9	358.5	328.3
67.5°	4897.9	4670.8	4045.1	1451.0	592.6	400.0	364.9	361.3	345.2	319.9	295.3
70°	4147.7	3992.4	3287.3	1180.3	551.2	360.6	314.2	312.1	302.3	283.3	261.5
72.5°	3361.8	3164.2	2654.6	944.8	500.5	322.7	267.1	271.4	258.7	245.3	225.7
75°	2480.9	2351.6	2052.1	757.8	432.3	281.2	222.9	224.3	218.6	204.6	189.1
77.5°	1633.8	1595.1	1467.9	497.7	332.5	223.6	182.1	183.5	179.3	166.6	150.4
80°	1099.5	1073.5	994.8	320.6	222.2	161.7	140.6	142.0	141.3	127.9	106.2
82.5°	677.7	666.5	641.1	216.5	154.0	116.0	92.8	97.0	104.7	90.0	72.4
85°	319.9	320.6	387.4	118.1	90.7	74.5	50.6	54.1	54.1	54.1	40.8
87.5°	41.5	43.6	53.4	49.9	33.0	28.1	18.3	15.5	13.4	17.6	12.7
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°	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2
2.5°	2319.9	2305.9	2275.6	2268.6	2264.4	2276.3	2244.7	2253.1	2239.1	2278.4	2272.1
5°	1942.4	1943.8	1968.4	1984.6	1990.2	1984.6	1963.5	1926.9	1898.8	1887.6	1890.4
7.5°	1673.9	1698.5	1740.6	1787.7	1830.6	1843.3	1831.3	1761.7	1685.8	1638.0	1622.5
10°	1584.6	1617.6	1666.1	1703.4	1741.3	1771.6	1777.9	1723.8	1633.8	1520.6	1476.3
12.5°	1589.5	1634.5	1680.9	1692.8	1689.3	1701.3	1695.7	1686.5	1627.5	1483.3	1409.5
15°	1543.1	1596.5	1628.9	1622.5	1611.3	1600.7	1586.0	1562.8	1541.7	1440.5	1358.9
17.5°	1436.2	1491.1	1517.8	1519.9	1519.9	1517.1	1481.2	1472.8	1470.0	1420.8	1370.9
20°	1455.9	1486.2	1474.2	1454.5	1460.1	1479.1	1458.0	1453.8	1470.0	1491.8	1482.6
22.5°	1467.2	1456.6	1366.6	1279.5	1259.8	1318.8	1330.8	1377.9	1443.3	1522.0	1573.3
25°	1397.6	1312.5	1151.5	1053.1	997.6	1052.4	1124.1	1211.3	1309.0	1410.2	1470.0
27.5°	1168.4	1103.7	988.4	899.8	851.3	859.8	920.9	1000.4	1091.1	1159.3	1202.8
30°	880.2	851.3	791.6	761.4	731.8	724.8	750.8	781.0	821.1	829.5	840.8
32.5°	648.2	644.0	647.5	637.6	632.0	631.3	623.6	630.6	634.8	639.7	629.9
35°	586.3	580.7	570.8	568.0	564.5	565.9	562.4	558.9	561.7	565.9	568.7
37.5°	554.7	546.2	532.2	527.3	527.3	529.4	523.7	522.3	527.3	540.6	547.6
40°	530.1	520.2	504.1	497.7	501.9	507.6	499.8	497.0	509.0	523.0	534.3
42.5°	506.9	499.1	483.7	476.6	480.2	490.7	479.5	477.3	492.8	508.3	521.6
45°	487.2	479.5	465.4	461.9	463.3	473.1	465.4	465.4	480.2	497.0	509.0
47.5°	471.7	461.9	452.7	449.9	451.3	457.0	455.5	455.5	469.6	487.2	499.1
50°	456.3	447.8	435.9	437.3	440.8	448.5	447.8	449.9	464.0	485.8	498.4
52.5°	449.2	436.6	423.2	424.6	435.2	444.3	441.5	443.6	459.8	500.5	518.8
55°	441.5	424.6	409.2	411.3	423.2	436.6	433.1	435.9	454.8	510.4	535.7
57.5°	426.7	407.0	390.2	391.6	409.2	423.2	417.6	421.1	443.6	499.8	526.6
58°	420.4	403.5	387.4	388.1	404.9	420.4	414.1	416.9	440.1	497.0	522.3
60°	393.7	383.8	369.8	370.5	386.7	400.0	396.5	399.3	421.8	476.6	495.6
62.5°	357.1	351.5	348.0	348.0	357.8	370.5	374.0	377.5	397.9	430.9	447.8
65°	317.8	317.8	318.5	318.5	324.8	341.0	343.1	352.2	371.2	387.4	400.0
67.5°	291.0	289.6	291.0	287.5	290.3	300.2	310.7	319.2	338.8	350.1	354.3
70°	256.6	255.9	256.6	251.7	255.2	263.6	270.7	284.7	305.1	313.5	315.7
72.5°	222.9	222.9	224.3	220.7	220.7	229.9	234.8	250.3	269.3	274.2	274.9
75°	187.7	189.8	189.8	184.9	186.3	191.9	198.2	210.9	228.5	232.0	232.0
77.5°	149.0	156.8	156.8	151.8	154.0	154.7	163.1	169.4	182.8	184.2	178.6
80°	108.3	116.0	122.3	118.1	121.6	117.4	122.3	126.5	139.9	133.6	124.4
82.5°	77.3	83.0	87.9	88.6	85.1	77.3	83.7	84.4	90.7	82.3	77.3
85°	42.9	47.8	54.1	51.3	45.7	40.8	42.9	44.3	43.6	41.5	38.7
87.5°	11.2	12.0	13.4	9.8	9.1	7.7	10.5	10.5	12.0	12.7	12.0
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°	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2
2.5°	2277.0	2308.0	2374.8	2425.4	2487.2	2562.5	2651.0	2740.3	2836.6	2866.9	2909.0
5°	1884.1	1961.4	1993.7	2085.8	2177.2	2314.3	2460.5	2630.0	2815.5	2904.8	2990.6
7.5°	1609.9	1651.4	1685.1	1752.6	1862.3	2028.9	2212.4	2424.0	2686.9	2817.0	2942.8
10°	1462.3	1466.5	1508.0	1591.6	1687.2	1834.1	2007.8	2244.7	2537.9	2696.0	2843.7
12.5°	1364.5	1346.3	1391.3	1478.4	1586.7	1722.4	1882.0	2107.6	2430.3	2592.7	2771.3
15°	1278.8	1249.9	1283.7	1373.0	1479.8	1639.4	1810.9	2050.0	2388.1	2577.2	2775.5
17.5°	1280.9	1201.4	1213.4	1288.6	1394.8	1557.2	1765.3	2047.9	2452.1	2670.0	2904.8
20°	1439.1	1311.8	1257.7	1271.7	1374.4	1551.5	1786.3	2146.3	2662.3	2980.0	3231.0
22.5°	1594.4	1517.8	1430.6	1401.8	1458.0	1643.6	1920.6	2379.0	3119.2	3598.0	4051.4
25°	1540.3	1605.7	1583.9	1543.1	1555.8	1709.7	2012.0	2570.2	3474.3	4013.5	4439.5
27.5°	1232.4	1351.2	1375.1	1374.4	1379.3	1505.8	1809.5	2441.5	3518.6	4092.9	4499.9
30°	866.1	876.7	889.3	913.9	936.4	1049.6	1415.9	2143.5	3498.9	4128.8	4536.5
32.5°	625.0	639.0	656.6	690.4	743.8	887.9	1238.7	2048.6	3602.9	4277.1	4643.4
35°	571.5	587.7	604.6	643.3	693.9	827.4	1168.4	2009.2	3773.7	4517.5	4835.3
37.5°	554.7	573.0	587.7	615.8	656.6	783.9	1104.4	1982.5	3948.8	4772.0	5092.6
40°	542.7	563.8	575.8	598.3	626.4	743.8	1047.5	1961.4	4118.2	5004.7	5299.3
42.5°	532.2	554.0	569.4	585.6	608.8	707.9	996.9	1940.3	4265.1	5230.4	5505.3
45°	519.5	546.9	566.6	579.3	599.7	677.7	958.2	1923.4	4432.5	5430.7	5713.3
47.5°	509.0	539.2	563.8	578.6	586.3	656.6	927.3	1946.6	4633.5	5640.2	5906.7
50°	509.7	538.5	569.4	592.6	572.2	639.0	908.3	2038.7	4895.0	5889.1	6059.2
52.5°	532.2	567.3	591.9	597.6	552.6	617.9	898.4	2199.7	5204.4	6109.1	6213.2
55°	557.5	594.0	620.8	617.2	542.0	591.2	896.3	2371.2	5543.2	6365.7	6413.5
57.5°	548.3	601.8	642.5	624.3	542.7	565.2	887.2	2509.7	5826.5	6557.7	6611.8
58°	545.5	599.0	645.4	622.9	540.6	557.5	885.1	2521.7	5865.9	6571.0	6639.9
60°	518.1	574.4	643.3	612.3	528.7	536.4	861.9	2560.4	5855.3	6502.1	6656.8
62.5°	468.2	514.6	594.7	561.0	492.1	508.3	809.9	2512.5	5569.9	6170.3	6410.0
65°	412.0	446.4	499.8	493.5	440.1	479.5	738.9	2323.4	4998.4	5631.8	5884.2
67.5°	369.8	397.9	431.6	422.5	395.8	440.8	662.2	2003.6	4357.2	4985.0	5302.8
70°	326.9	348.7	365.6	359.2	350.8	402.8	594.0	1626.1	3742.8	4370.6	4678.5
72.5°	283.3	303.7	317.8	308.6	303.7	362.8	538.5	1261.9	2956.1	3605.7	4001.5
75°	236.9	257.3	267.1	256.6	253.8	319.9	456.3	942.7	2218.0	2779.7	3121.4
77.5°	183.5	205.3	217.9	214.4	215.8	262.9	368.4	645.4	1586.0	1894.6	2254.5
80°	128.7	152.6	161.0	157.5	167.3	200.4	260.1	409.9	1093.9	1229.6	1483.3
82.5°	79.4	101.9	103.3	106.9	113.9	148.3	196.1	249.6	686.8	710.0	894.2
85°	40.1	48.5	52.0	57.6	64.0	90.7	111.8	154.7	442.2	334.6	499.8
87.5°	13.4	14.1	16.9	21.1	26.0	37.3	47.8	63.3	109.7	60.5	154.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452003

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2	2674.2
2.5°	2994.1	3053.9	3097.5	3137.5	3098.9	3095.3	3057.4	2996.2	2970.9	2970.9
5°	3170.6	3310.5	3423.6	3496.1	3465.1	3390.6	3267.6	3110.8	3026.4	3011.7
7.5°	3219.1	3495.4	3705.6	3780.1	3728.0	3563.5	3328.0	3063.7	2942.8	2916.1
10°	3189.5	3548.8	3857.4	3975.5	3903.1	3654.2	3333.0	3008.9	2859.8	2828.9
12.5°	3158.6	3555.8	3885.5	4056.4	4009.3	3727.3	3368.8	2973.0	2800.8	2756.5
15°	3181.1	3558.6	3851.1	4027.5	4057.8	3815.2	3427.9	2999.0	2788.8	2741.7
17.5°	3323.1	3612.1	3801.9	3944.6	4050.7	3934.7	3595.9	3123.5	2895.7	2837.3
20°	3619.8	3740.0	3830.0	3940.4	4111.2	4178.7	3939.7	3465.1	3195.9	3144.6
22.5°	4478.9	4457.1	4272.9	4270.8	4518.2	4788.9	4772.7	4159.7	3754.8	3712.6
25°	4800.8	4699.6	4433.2	4368.5	4477.5	4895.0	4834.6	4301.7	3927.7	3825.1
27.5°	4675.0	4424.0	4249.0	4234.2	4198.4	4592.7	4738.3	4359.3	3988.2	3888.3
30°	4667.3	4298.2	4047.9	4077.4	4111.9	4488.7	4791.7	4540.0	4142.8	4036.0
32.5°	4686.2	4315.8	4062.7	4068.3	4170.9	4504.2	4850.8	4736.9	4346.0	4239.1
35°	4762.9	4415.6	4156.9	4143.5	4303.8	4605.4	4951.3	5046.2	4623.7	4502.1
37.5°	4886.6	4614.5	4329.1	4325.6	4558.3	4788.2	5076.4	5358.3	4900.0	4769.2
40°	5068.7	4847.2	4635.6	4616.6	4904.2	5085.6	5238.8	5690.8	5221.2	5053.2
42.5°	5288.7	5126.3	5039.9	5115.1	5391.4	5419.5	5491.9	5998.1	5494.7	5299.3
45°	5492.6	5484.9	5605.1	5804.7	5965.7	5797.0	5756.2	6204.0	5707.0	5494.7
47.5°	5735.1	5944.6	6307.4	6599.8	6768.6	6236.4	5981.9	6338.3	5861.7	5666.2
50°	5981.2	6495.1	7074.4	7482.1	7518.0	6713.7	6137.3	6464.9	6002.3	5799.1
52.5°	6239.9	6934.5	7705.7	8179.5	8109.9	7129.2	6287.7	6550.6	6147.1	5968.5
55°	6464.9	7203.7	8058.6	8513.4	8411.5	7382.3	6450.1	6643.4	6353.8	6203.3
57.5°	6590.7	7226.2	7970.7	8367.9	8257.5	7333.1	6524.6	6712.3	6485.9	6367.8
58°	6609.0	7196.0	7892.7	8283.5	8171.1	7291.6	6523.9	6709.5	6494.4	6375.6
60°	6592.8	6999.8	7602.3	7950.3	7832.2	7031.5	6497.2	6656.8	6387.5	6287.0
62.5°	6443.1	6659.6	7101.1	7354.2	7320.4	6625.1	6387.5	6457.8	6062.0	5965.0
65°	6246.2	6195.6	6459.2	6638.5	6663.8	6320.7	6278.6	6027.6	5644.4	5507.4
67.5°	6007.2	5669.8	5669.1	5771.0	5813.2	5852.5	6051.5	5560.1	5042.7	4897.9
70°	5601.6	4859.2	4635.6	4755.8	4720.7	5053.2	5645.9	4903.5	4317.2	4147.7
72.5°	4857.8	3856.0	3498.2	3652.8	3564.2	3962.9	4940.0	4035.3	3569.9	3361.8
75°	3937.5	2884.4	2515.4	2657.4	2602.5	3006.1	4110.5	2930.8	2560.4	2480.9
77.5°	3057.4	2090.0	1875.6	1855.9	1896.7	2237.0	3015.2	1979.0	1687.9	1633.8
80°	1964.2	1496.0	1508.7	1483.3	1504.4	1410.2	1830.6	1262.6	1143.1	1099.5
82.5°	1292.8	1042.6	1242.9	1147.3	1089.7	948.4	1200.7	826.7	701.6	677.7
85°	880.9	767.7	698.8	534.3	629.2	730.4	900.6	445.0	352.9	319.9
87.5°	397.9	267.1	196.1	120.9	191.2	220.7	437.3	52.0	40.1	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)