

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: P529356

Luminaire Tested: **GALN-SA4C-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529356
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-SA4C-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 18864 lumens
Efficiency: N/A
Efficacy: 88.6 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): 213
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

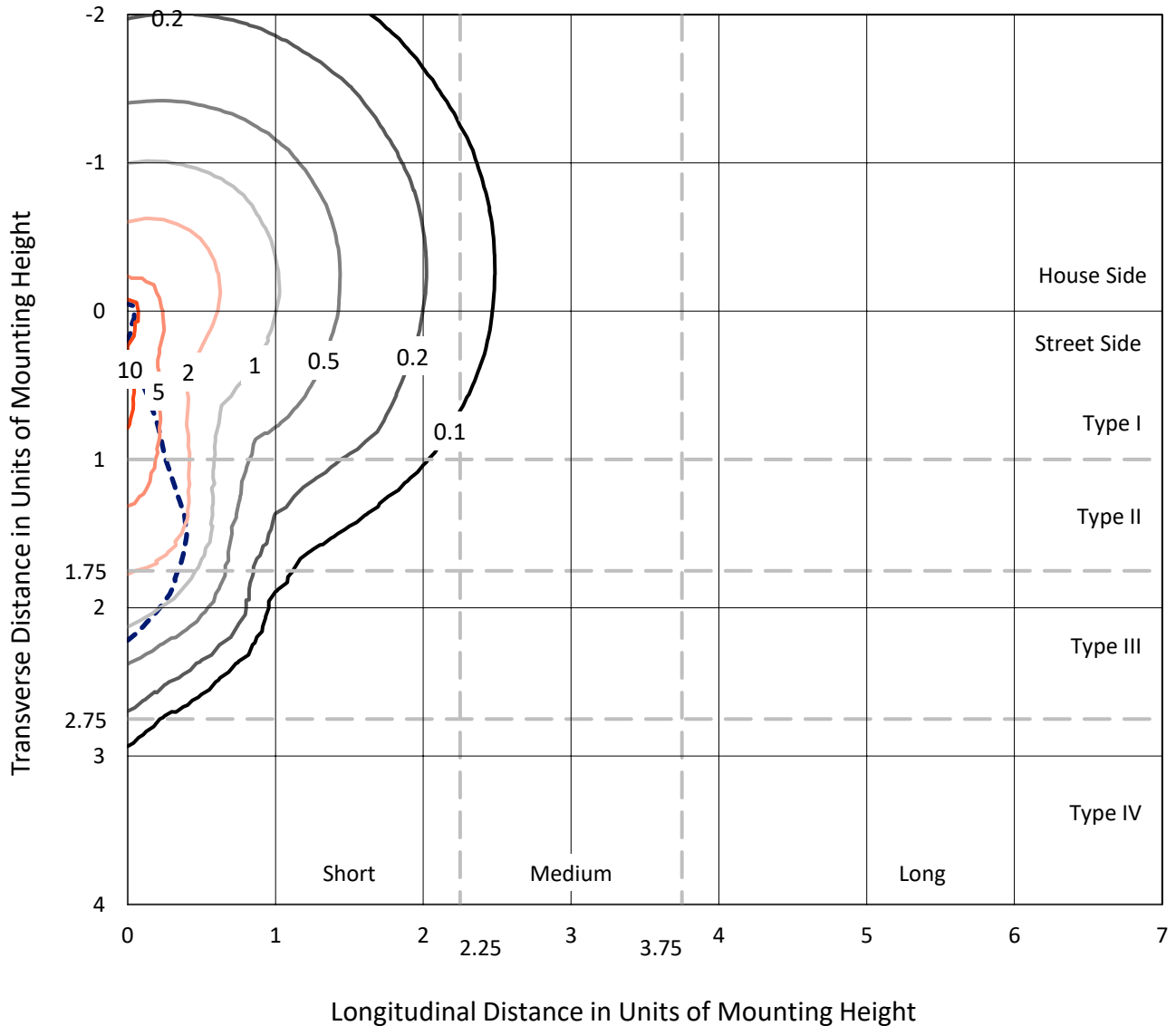




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Iso-Footcandle Lines of Horizontal Illumination

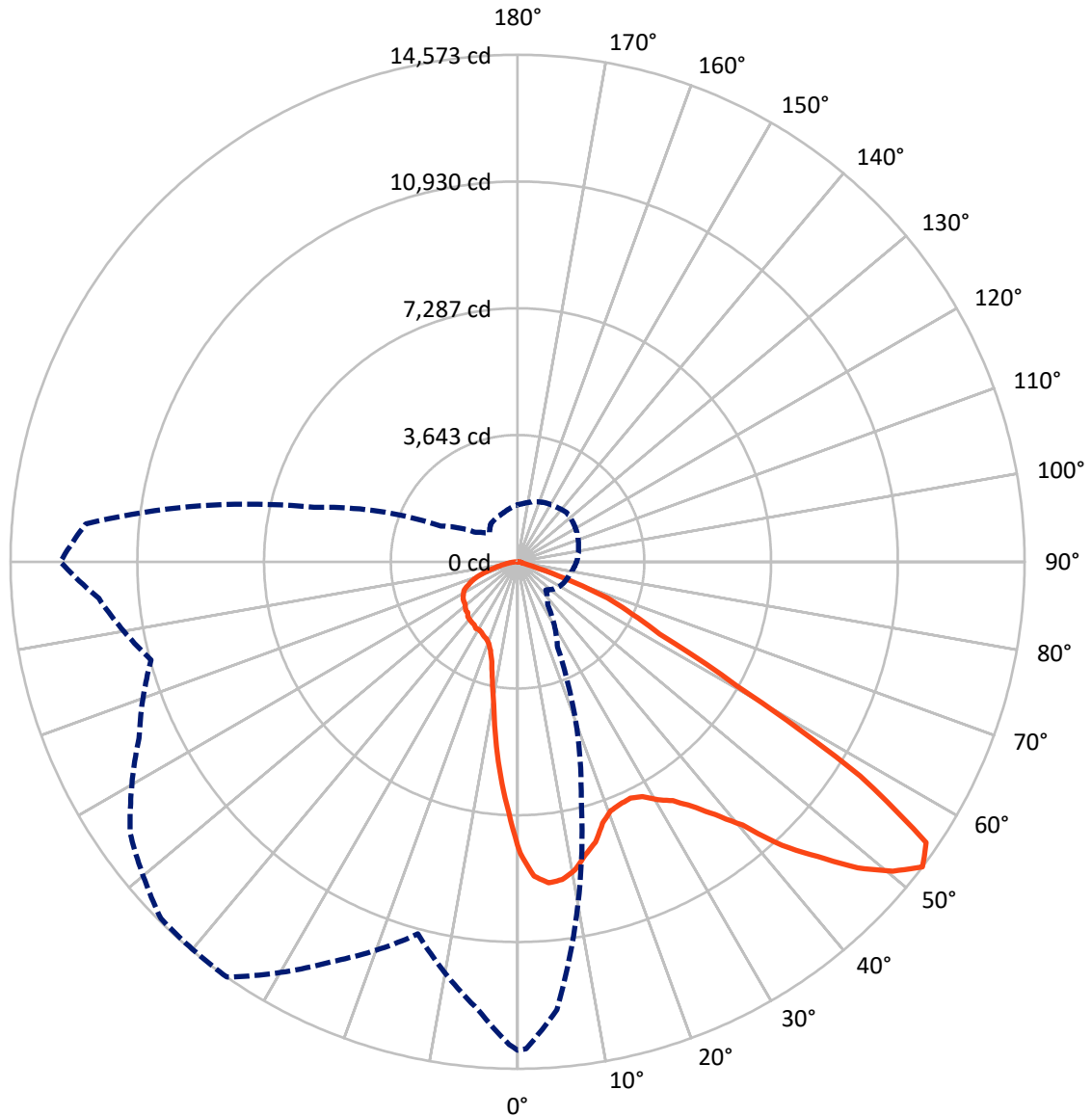
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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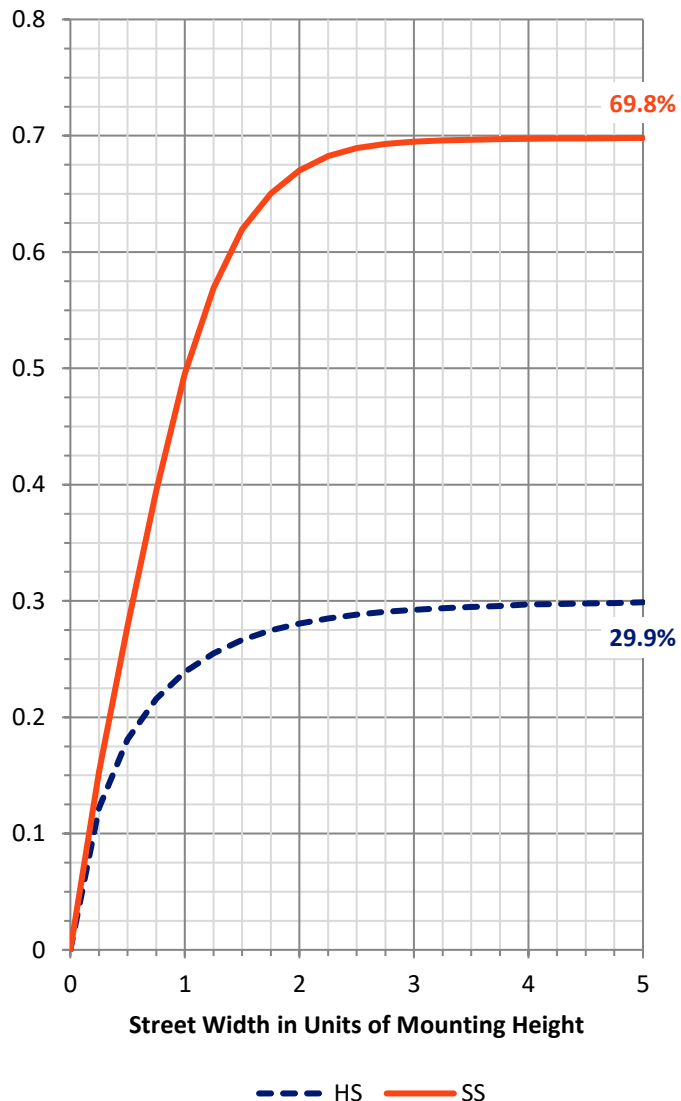
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5686.7	0.0	5686.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13177.3	0.0	13177.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	18864.0	0.0	18864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	3.4
10°-20°	1384.6	7.3
20°-30°	2092.0	11.1
30°-40°	3023.1	16.0
40°-50°	4023.2	21.3
50°-60°	4500.1	23.9
60°-70°	2536.2	13.4
70°-80°	565.4	3.0
80°-90°	100.7	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°	18864.0	100.0
0°-180°	18864.0	100.0

Coefficient of Utilization

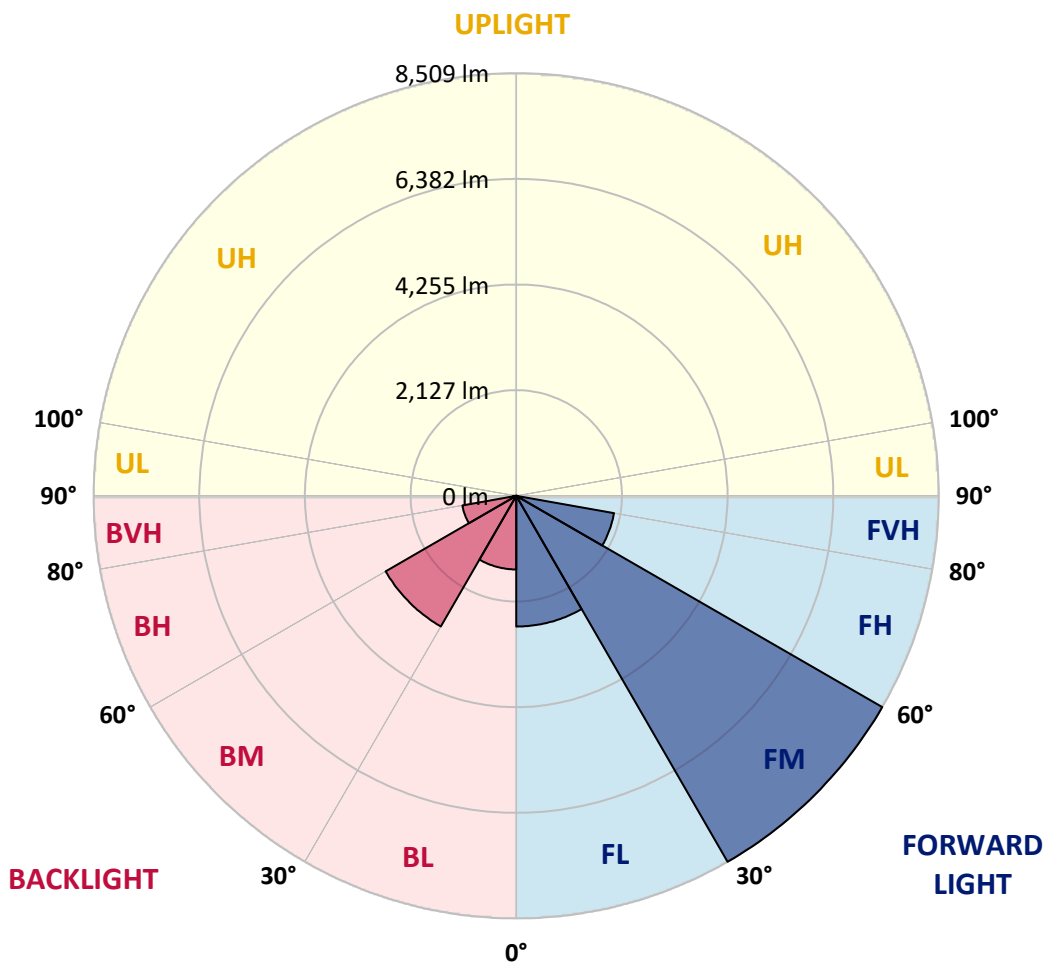


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2632.4	14.0			
FM	(30°-60°)	8509.1	45.1			
FH	(60°-80°)	1999.3	10.6			G2/5000
FVH	(80°-90°)	36.5	0.2			G1/100
BL	(0°-30°)	1483.0	7.9	B3/2500		
BM	(30°-60°)	3037.3	16.1	B3/5000		
BH	(60°-80°)	1102.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	64.2	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°	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0
2.5°	8511.4	8648.1	8500.5	8238.0	8052.1	7882.5	7704.8	7669.3	7436.9	7395.9	7226.4
5°	8027.5	7997.4	7816.9	7472.4	7092.4	6747.9	6493.6	6247.5	6080.7	5886.6	5872.9
7.5°	7439.6	7264.6	7160.7	6638.5	6168.2	5626.9	5394.5	5019.9	4902.3	4727.3	4637.1
10°	6914.7	6786.2	6542.8	6020.6	5364.4	5006.2	4757.4	4555.1	4418.4	4237.9	4011.0
12.5°	6654.9	6603.0	6329.6	5520.2	5033.6	4650.8	4475.8	4278.9	4046.5	3756.7	3644.6
15°	6701.4	6526.4	6318.6	5424.5	4751.9	4382.8	4104.0	3857.9	3559.9	3283.7	3122.4
17.5°	7048.6	6914.7	6499.1	5484.7	4645.3	4112.2	3606.3	3242.7	2974.8	2725.9	2613.8
20°	7732.2	7538.0	7070.5	5561.3	4415.6	3734.8	3155.2	2706.8	2419.7	2288.5	2250.2
22.5°	8489.5	8374.7	7628.3	5733.5	4232.5	3384.9	2676.7	2228.3	2121.7	2086.2	2157.2
25°	9410.9	9112.9	8495.0	6015.1	4090.3	3086.9	2272.1	2023.3	1968.6	2004.1	2086.2
27.5°	10110.9	10031.6	9102.0	6280.3	3896.2	2728.7	2045.1	1881.1	1897.5	1933.0	2009.6
30°	10942.1	10540.1	9689.8	6463.5	3721.2	2482.6	1886.6	1842.8	1859.2	1919.4	1957.6
32.5°	11442.4	11292.0	10058.9	6739.7	3518.8	2269.3	1763.5	1722.5	1747.1	1837.3	1927.6
35°	12079.5	11781.4	10515.5	6810.8	3376.7	2184.6	1676.0	1646.0	1703.4	1766.3	1867.4
37.5°	12823.2	12618.1	11147.1	6761.5	3300.1	2097.1	1602.2	1588.5	1629.6	1717.0	1834.6
40°	13263.3	13200.5	11478.0	6791.6	3179.8	2020.5	1517.5	1533.9	1618.6	1687.0	1801.8
42.5°	13687.1	13277.0	11967.4	6780.7	3103.3	1916.6	1525.7	1506.5	1572.1	1651.4	1760.8
45°	13780.1	13372.7	12082.2	6704.1	3010.3	1815.5	1462.8	1471.0	1550.3	1648.7	1719.8
47.5°	13720.0	13419.2	12295.5	6682.3	2922.8	1744.4	1369.8	1468.2	1514.7	1594.0	1695.2
50°	13678.9	13662.5	12475.9	6786.2	2805.2	1632.3	1257.7	1432.7	1479.2	1558.5	1667.8
52.5°	14039.8	14004.3	12927.0	7059.6	2712.3	1512.0	1142.9	1342.5	1454.6	1531.1	1637.8
55°	14258.6	14102.7	13700.8	7395.9	2556.4	1353.4	1063.6	1230.4	1394.4	1462.8	1572.1
57.5°	12825.9	12719.3	12393.9	6903.7	2293.9	1145.6	965.2	1115.5	1312.4	1419.0	1531.1
60°	10671.4	10504.6	9670.7	5867.5	1692.4	891.3	905.0	1025.3	1290.5	1331.5	1462.8
62.5°	10061.7	9648.8	8514.1	4721.9	1298.7	765.6	812.0	943.3	1175.7	1244.0	1375.3
65°	7983.7	7677.5	6091.7	3409.5	869.5	664.4	741.0	850.3	1014.4	1148.3	1268.6
67.5°	4998.0	4705.5	3250.9	1613.1	607.0	568.7	661.7	776.5	910.5	1030.8	1164.7
70°	2611.1	2291.2	1501.0	582.4	418.3	464.8	552.3	661.7	792.9	891.3	995.2
72.5°	973.4	790.2	489.4	251.5	289.8	355.4	448.4	527.7	620.7	741.0	798.4
75°	150.4	128.5	125.8	153.1	196.9	257.0	319.9	399.2	481.2	557.8	596.0
77.5°	71.1	68.4	76.6	101.2	131.2	183.2	232.4	309.0	374.6	423.8	445.7
80°	46.5	43.7	49.2	68.4	98.4	136.7	185.9	237.9	298.0	339.0	333.6
82.5°	27.3	30.1	30.1	46.5	68.4	98.4	134.0	180.5	221.5	257.0	235.1
85°	16.4	13.7	13.7	27.3	46.5	79.3	112.1	76.6	79.3	79.3	90.2
87.5°	5.5	5.5	5.5	2.7	5.5	5.5	8.2	13.7	16.4	19.1	24.6
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°	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0
2.5°	7220.9	7305.6	7275.6	7168.9	7251.0	7264.6	7209.9	7398.6	7434.1	7376.7	7393.1
5°	5853.8	5875.7	5924.9	6028.8	6102.6	6190.1	6190.1	6195.6	6121.8	6307.7	6253.0
7.5°	4560.6	4574.2	4631.6	4853.1	4916.0	5082.8	5153.9	5104.7	4957.0	4894.1	4946.1
10°	3937.2	3857.9	3838.7	3866.1	4008.3	4079.3	4139.5	4123.1	4098.5	4049.3	3994.6
12.5°	3521.6	3464.2	3417.7	3352.1	3360.3	3428.6	3475.1	3436.8	3447.8	3458.7	3475.1
15°	3070.4	3029.4	3004.8	2906.4	2895.5	2941.9	2958.3	2980.2	3021.2	3024.0	3004.8
17.5°	2592.0	2556.4	2611.1	2665.8	2627.5	2630.2	2660.3	2679.5	2668.5	2619.3	2594.7
20°	2263.9	2302.2	2356.8	2408.8	2449.8	2474.4	2485.3	2455.3	2419.7	2318.6	2315.8
22.5°	2168.2	2217.4	2263.9	2343.2	2381.4	2444.3	2386.9	2318.6	2269.3	2220.1	2162.7
25°	2097.1	2138.1	2231.1	2261.1	2335.0	2386.9	2345.9	2277.5	2192.8	2121.7	2078.0
27.5°	2045.1	2091.6	2151.8	2233.8	2291.2	2321.3	2280.3	2252.9	2165.4	2080.7	2017.8
30°	2012.3	2061.5	2170.9	2239.3	2288.5	2313.1	2242.0	2209.2	2146.3	2075.2	2020.5
32.5°	1990.5	2034.2	2127.2	2214.7	2247.5	2247.5	2258.4	2220.1	2132.6	2012.3	1965.9
35°	1919.4	1979.5	2056.1	2157.2	2217.4	2252.9	2198.3	2154.5	2097.1	1974.1	1889.3
37.5°	1878.4	1919.4	2017.8	2113.5	2165.4	2203.7	2181.8	2105.3	2028.7	1927.6	1859.2
40°	1834.6	1900.2	1987.7	2078.0	2135.4	2173.6	2157.2	2067.0	1974.1	1878.4	1831.9
42.5°	1804.5	1848.3	1938.5	2039.7	2108.0	2181.8	2132.6	2020.5	1954.9	1823.7	1771.7
45°	1779.9	1851.0	1946.7	1987.7	2058.8	2135.4	2047.9	1979.5	1903.0	1807.3	1763.5
47.5°	1749.9	1815.5	1878.4	1987.7	2020.5	2056.1	2039.7	1930.3	1864.7	1760.8	1730.7
50°	1738.9	1763.5	1878.4	1938.5	1985.0	2020.5	1976.8	1894.8	1831.9	1725.2	1659.6
52.5°	1695.2	1741.7	1815.5	1894.8	1952.2	1995.9	1924.8	1872.9	1788.1	1676.0	1635.0
55°	1640.5	1667.8	1799.1	1881.1	1911.2	1941.2	1913.9	1829.1	1741.7	1626.8	1585.8
57.5°	1569.4	1632.3	1738.9	1853.8	1892.0	1908.4	1864.7	1796.3	1687.0	1585.8	1520.2
60°	1495.6	1561.2	1678.8	1771.7	1810.0	1870.2	1804.5	1763.5	1637.8	1525.7	1454.6
62.5°	1421.8	1495.6	1583.1	1700.6	1733.4	1758.1	1741.7	1684.2	1583.1	1457.3	1369.8
65°	1334.3	1388.9	1498.3	1558.5	1580.3	1637.8	1580.3	1558.5	1468.2	1347.9	1274.1
67.5°	1203.0	1249.5	1345.2	1402.6	1419.0	1443.6	1440.9	1416.3	1315.1	1233.1	1167.5
70°	1052.6	1093.7	1153.8	1222.2	1230.4	1260.4	1233.1	1227.6	1162.0	1049.9	1014.4
72.5°	844.9	883.1	962.4	992.5	995.2	1006.2	992.5	973.4	957.0	839.4	803.8
75°	648.0	669.9	708.1	735.5	735.5	749.2	741.0	721.8	678.1	604.2	568.7
77.5°	451.1	473.0	522.2	538.6	535.9	541.4	516.8	497.6	432.0	393.7	363.6
80°	328.1	341.8	366.4	377.3	380.0	388.2	358.2	341.8	303.5	259.7	246.1
82.5°	237.9	246.1	248.8	262.5	262.5	248.8	240.6	224.2	196.9	169.5	158.6
85°	98.4	101.2	103.9	120.3	123.0	147.6	136.7	128.5	112.1	95.7	87.5
87.5°	24.6	27.3	35.5	30.1	35.5	35.5	38.3	43.7	43.7	35.5	35.5
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°	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0
2.5°	7456.0	7477.9	7756.8	7792.3	7929.0	8068.5	8350.1	8552.4	8716.5	8823.1	8853.2
5°	6310.4	6449.9	6578.4	6786.2	6974.8	7242.8	7551.7	7934.5	8415.7	8661.8	8760.2
7.5°	4940.6	5104.7	5290.6	5492.9	5769.1	6250.3	6663.1	7106.0	7721.2	7975.5	8361.0
10°	4032.9	4216.1	4462.1	4618.0	4951.5	5410.9	5892.1	6403.4	6991.2	7357.6	7803.3
12.5°	3565.3	3715.7	3942.6	4270.7	4519.5	4817.6	5175.7	5821.0	6663.1	7010.4	7316.6
15°	3048.6	3215.4	3477.8	3841.5	4139.5	4494.9	4896.9	5599.5	6496.3	7032.2	7292.0
17.5°	2622.0	2742.3	3018.5	3332.9	3674.7	4062.9	4639.8	5588.6	6671.3	7357.6	7781.4
20°	2326.8	2343.2	2493.5	2761.5	3226.3	3732.1	4481.3	5533.9	7231.8	7918.1	8454.0
22.5°	2140.8	2124.4	2127.2	2354.1	2679.5	3406.7	4232.5	5719.8	7868.9	8809.4	9170.3
25°	2047.9	2004.1	1976.8	2026.0	2321.3	3021.2	4043.8	5965.9	8555.1	9544.9	9987.8
27.5°	1998.7	1922.1	1867.4	1875.6	2091.6	2827.1	3926.2	6072.5	9235.9	10570.2	10726.1
30°	1979.5	1883.8	1804.5	1777.2	1919.4	2556.4	3674.7	6255.7	9845.7	11133.4	11267.4
32.5°	1911.2	1793.6	1717.0	1692.4	1749.9	2318.6	3494.2	6387.0	10384.3	11745.9	11699.4
35°	1831.9	1733.4	1637.8	1591.3	1632.3	2165.4	3349.3	6324.1	11018.6	12221.6	12197.0
37.5°	1823.7	1695.2	1615.9	1539.3	1536.6	1976.8	3152.5	6384.2	11423.3	13074.7	12738.4
40°	1752.6	1670.6	1566.7	1503.8	1468.2	1881.1	2961.1	6242.1	12016.6	13419.2	13088.4
42.5°	1755.3	1632.3	1542.1	1468.2	1432.7	1741.7	2829.8	6203.8	12224.4	13979.7	13252.4
45°	1711.6	1591.3	1514.7	1427.2	1408.1	1635.0	2704.1	6026.1	12590.7	14007.0	13047.4
47.5°	1667.8	1561.2	1479.2	1375.3	1331.5	1596.7	2605.6	5878.4	12399.4	13750.0	12763.0
50°	1637.8	1514.7	1438.2	1364.3	1241.3	1531.1	2477.1	5842.9	12131.4	13402.8	12235.3
52.5°	1585.8	1476.4	1397.1	1339.7	1142.9	1471.0	2427.9	6050.7	12459.5	13143.0	12082.2
55°	1536.6	1424.5	1323.3	1211.2	1060.8	1312.4	2291.2	6244.8	12938.0	13741.8	12776.7
57.5°	1484.6	1378.0	1268.6	1134.7	981.6	1148.3	2149.0	6280.3	12041.2	12700.1	12128.7
60°	1416.3	1279.6	1197.6	1022.6	896.8	951.5	1703.4	5536.6	9339.8	10605.8	10624.9
62.5°	1339.7	1192.1	1121.0	915.9	809.3	820.2	1388.9	4653.5	7576.3	8779.3	9301.6
65°	1238.6	1096.4	1011.6	847.6	746.4	710.9	1017.1	3409.5	5755.4	7122.5	7715.8
67.5°	1107.3	973.4	866.7	738.2	667.1	609.7	694.5	1919.4	3398.5	4782.0	4962.5
70°	967.9	853.1	741.0	634.3	555.0	514.0	508.6	850.3	1624.1	2572.8	2928.3
72.5°	762.8	680.8	590.6	511.3	459.3	399.2	363.6	352.7	549.6	1047.2	1446.4
75°	546.8	478.5	426.5	374.6	336.3	303.5	276.1	251.5	229.7	262.5	360.9
77.5°	344.5	319.9	278.9	265.2	243.3	235.1	224.2	210.5	194.1	183.2	183.2
80°	232.4	216.0	202.3	199.6	191.4	188.7	191.4	177.7	161.3	147.6	153.1
82.5°	155.8	153.1	150.4	147.6	150.4	153.1	158.6	155.8	142.2	134.0	136.7
85°	93.0	98.4	103.9	109.4	120.3	106.6	87.5	73.8	65.6	60.2	57.4
87.5°	35.5	49.2	43.7	41.0	43.7	41.0	38.3	35.5	30.1	27.3	27.3
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: P529356

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0	8372.0
2.5°	9052.8	9107.4	9153.9	9143.0	9047.3	8918.8	8866.8	8601.6	8546.9	8511.4
5°	9175.8	9493.0	9561.3	9520.3	9271.5	8957.1	8650.8	8262.6	8035.7	8027.5
7.5°	8948.9	9339.8	9462.9	9555.8	9225.0	8678.2	8153.2	7570.9	7428.7	7439.6
10°	8372.0	8995.3	9298.8	9394.5	9014.5	8541.5	7814.2	7223.6	6920.1	6914.7
12.5°	8052.1	8541.5	8626.2	8760.2	8648.1	8169.6	7617.3	6955.7	6660.4	6654.9
15°	7767.7	8090.3	8114.9	8303.6	8363.8	8041.1	7669.3	6963.9	6726.0	6701.4
17.5°	8016.5	7792.3	7699.4	7724.0	7901.7	8019.3	7970.0	7428.7	7185.3	7048.6
20°	8183.3	7683.0	7401.3	7428.7	7639.2	8068.5	8418.4	8101.3	7715.8	7732.2
22.5°	8629.0	7699.4	7259.2	7229.1	7562.7	8325.5	8924.3	8951.6	8579.8	8489.5
25°	9296.1	7888.0	7215.4	7207.2	7527.1	8601.6	9514.8	9957.8	9577.7	9410.9
27.5°	9832.0	8183.3	7352.1	7379.5	7639.2	8825.8	10017.9	10605.8	10315.9	10110.9
30°	10302.3	8489.5	7543.5	7417.7	7940.0	8943.4	10233.9	11344.0	11111.6	10942.1
32.5°	10496.4	8924.3	7847.0	7639.2	8188.8	9085.6	10682.3	12060.3	11860.7	11442.4
35°	10824.5	9167.6	8011.1	7994.6	8623.5	9427.3	10892.8	12533.3	12451.3	12079.5
37.5°	11087.0	9413.7	8593.4	8413.0	9219.5	10001.5	11231.9	13186.8	12998.1	12823.2
40°	11289.3	9853.9	9137.5	9375.4	9952.3	10523.7	11543.6	13227.8	13771.9	13263.3
42.5°	11103.4	10247.6	10031.6	10600.3	11147.1	11119.8	11579.1	13545.0	13952.4	13687.1
45°	11056.9	10914.7	11445.1	11961.9	12087.7	11614.7	11324.8	13195.0	13897.7	13780.1
47.5°	10944.8	11570.9	12495.1	13337.2	13145.8	11945.5	11021.3	13132.1	13930.5	13720.0
50°	10906.5	11713.1	13271.6	14091.8	13977.0	12232.6	10879.2	12727.5	13698.1	13678.9
52.5°	10903.8	12005.6	13594.2	14501.9	14573.0	12686.4	11073.3	12932.5	13878.5	14039.8
55°	11026.8	11912.7	13553.2	14275.0	14247.6	12484.1	11095.2	13069.2	14100.0	14258.6
57.5°	10400.7	10671.4	11185.4	11756.8	11609.2	10340.5	9908.5	12082.2	12940.7	12825.9
60°	8981.7	8134.1	7554.4	7527.1	7240.0	6843.6	8109.5	10783.5	10783.5	10671.4
62.5°	7866.1	5339.8	4587.9	4374.6	4579.7	5036.3	7822.4	10488.2	10190.2	10061.7
65°	6879.1	4076.6	3316.5	3256.4	3611.8	4300.8	7073.2	8935.2	8410.2	7983.7
67.5°	4426.6	2985.7	2466.2	2359.6	2788.8	3157.9	4708.2	5495.6	5164.8	4998.0
70°	2854.4	1944.0	1372.5	1287.8	1454.6	1946.7	3007.6	3204.4	2723.2	2611.1
72.5°	1350.7	839.4	481.2	396.5	445.7	743.7	1189.4	1279.6	1063.6	973.4
75°	429.3	309.0	196.9	169.5	161.3	191.4	273.4	210.5	153.1	150.4
77.5°	191.4	183.2	155.8	131.2	114.8	95.7	79.3	65.6	68.4	71.1
80°	158.6	144.9	128.5	114.8	95.7	73.8	57.4	43.7	43.7	46.5
82.5°	139.4	125.8	112.1	95.7	82.0	60.2	43.7	30.1	27.3	27.3
85°	60.2	71.1	76.6	82.0	65.6	49.2	30.1	19.1	16.4	16.4
87.5°	24.6	21.9	19.1	16.4	13.7	13.7	10.9	8.2	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)