

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: P457165

Luminaire Tested: **GALN-SA8C-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457165
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-SA8C-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 40925.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

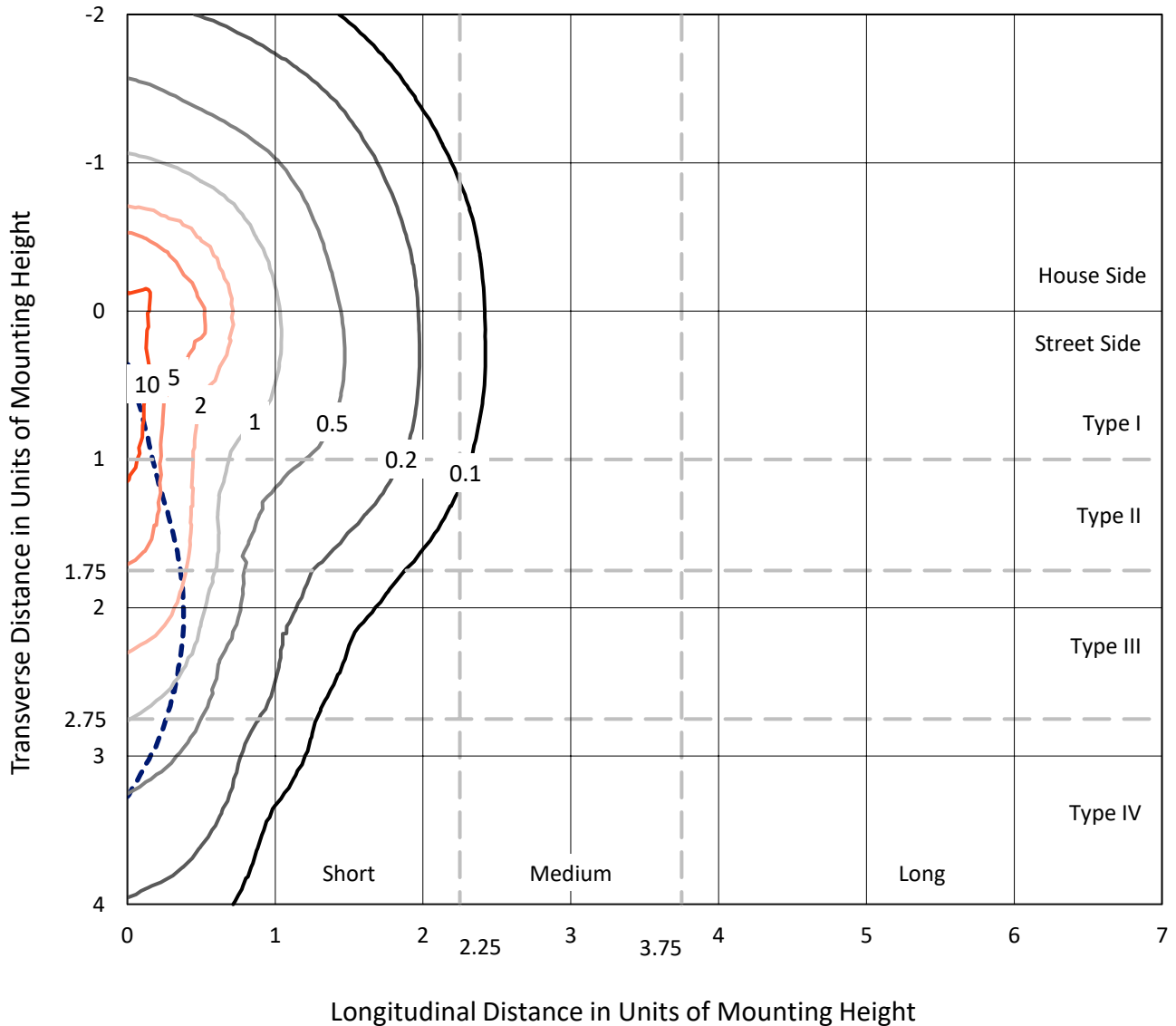
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

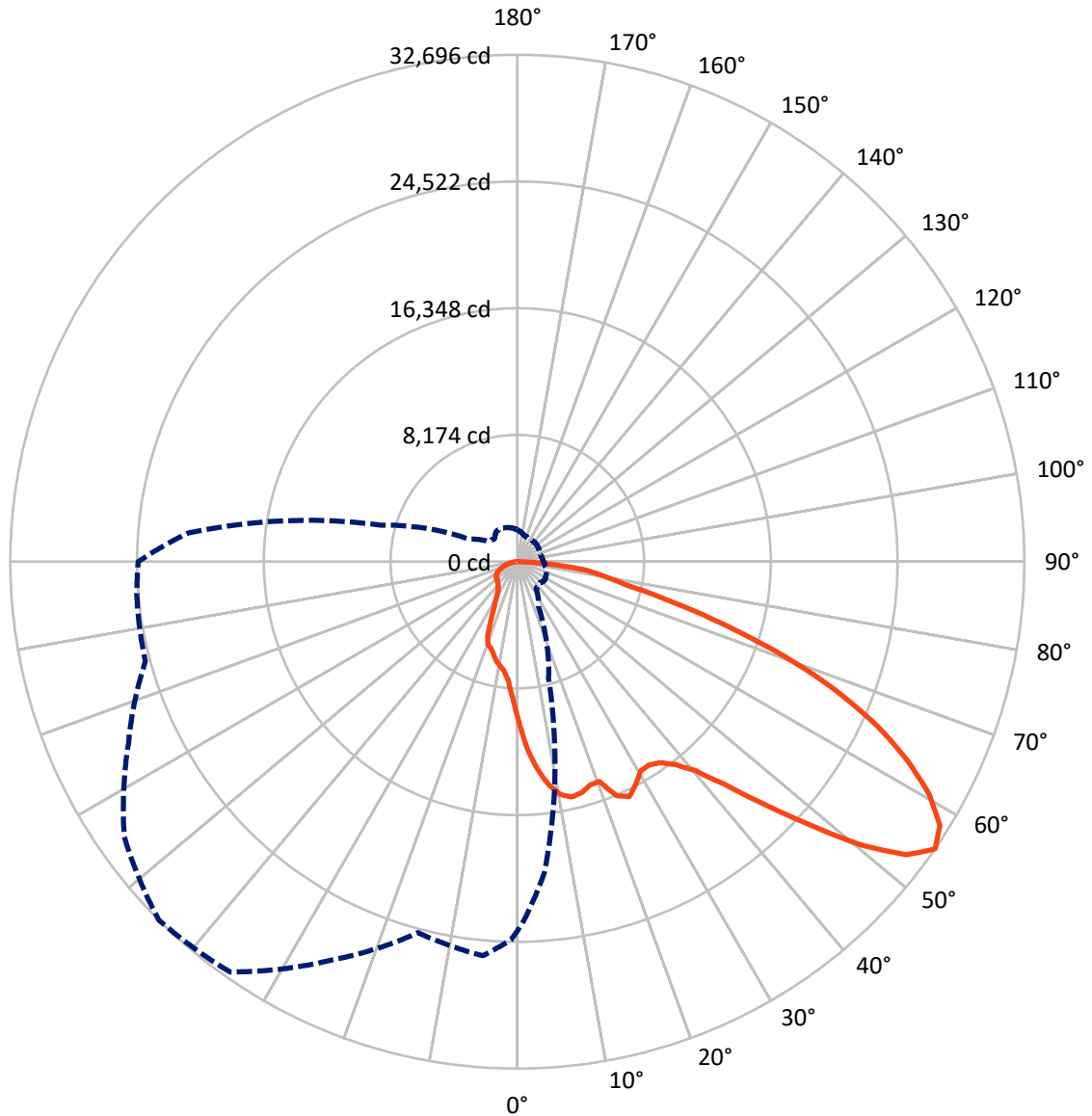
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8952.2	0.0	8952.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	31972.9	0.0	31972.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	40925.1	0.0	40925.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.5	2.1
10°-20°	2309.4	5.6
20°-30°	3989.5	9.7
30°-40°	4636.5	11.3
40°-50°	6468.8	15.8
50°-60°	8777.4	21.4
60°-70°	8350.7	20.4
70°-80°	4511.3	11.0
80°-90°	1011.0	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°	40925.1	100.0
0°-180°	40925.1	100.0



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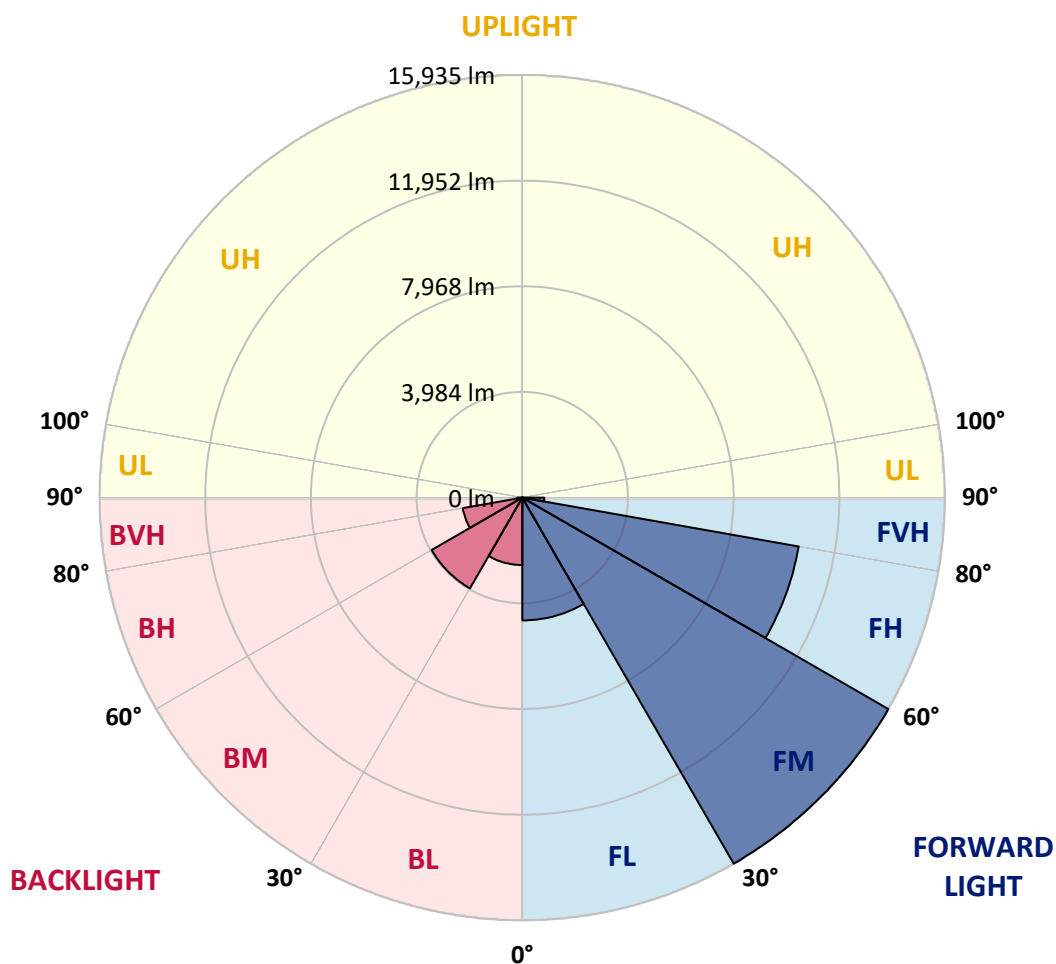
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4628.7	11.3			
FM	(30°-60°)	15935.3	38.9			
FH	(60°-80°)	10582.5	25.9			G4/12000
FVH	(80°-90°)	826.3	2.0			G5
BL	(0°-30°)	2540.6	6.2	B4/5000		
BM	(30°-60°)	3947.3	9.6	B3/5000		
BH	(60°-80°)	2279.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	184.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6
2.5°	11410.0	11366.8	11245.3	10926.7	10605.4	10278.7	10027.6	9714.4	9387.7	9212.2	8988.1
5°	11566.5	11517.9	11231.8	10513.6	9862.9	9179.8	8634.4	8156.5	7962.1	7675.9	7446.4
7.5°	11199.4	11177.8	10748.5	9717.1	8826.1	7932.4	7314.1	6930.7	6582.5	6452.9	6479.9
10°	10864.6	10778.2	10240.9	8893.6	7854.1	7127.8	6685.1	6309.8	6064.1	5999.3	6012.8
12.5°	10586.5	10470.4	9835.9	8340.1	7430.2	6849.8	6285.5	5894.0	5669.9	5732.0	5942.6
15°	10529.8	10373.2	9665.8	8151.1	7198.0	6450.2	5831.9	5381.0	5213.6	5348.6	5686.1
17.5°	10897.0	10699.9	9957.4	8213.2	6976.6	6042.5	5283.8	4768.1	4627.7	4843.7	5283.8
20°	12076.8	11785.2	10867.3	8572.3	6955.0	5840.0	4965.2	4446.8	4506.2	4916.6	5375.6
22.5°	14258.4	13821.0	12460.2	9096.1	7068.4	5788.7	4900.4	4630.4	4957.1	5305.4	5607.8
25°	14690.4	14347.5	12746.4	9214.9	7044.1	5753.6	5084.0	5219.0	5583.5	5756.3	5651.0
27.5°	14933.4	14541.9	12727.5	8626.3	6299.0	5219.0	4859.9	5084.0	5175.8	5008.4	4722.2
30°	15500.4	15092.7	13048.8	8008.0	5186.6	3871.7	3393.8	3302.0	3364.1	3396.5	3293.9
32.5°	16280.6	15878.4	13653.6	7603.0	4484.6	3202.1	2732.3	2602.7	2573.0	2537.9	2497.4
35°	17290.4	16672.1	14247.6	7343.8	4195.7	2961.8	2529.8	2429.9	2389.4	2340.8	2297.6
37.5°	18316.4	17668.4	14998.2	7071.1	4004.0	2794.4	2394.8	2348.9	2278.8	2227.5	2165.4
40°	19407.2	18680.9	15681.3	6833.6	3817.7	2686.4	2297.6	2292.3	2200.5	2141.1	2068.2
42.5°	20352.2	19604.3	16291.4	6687.8	3674.6	2573.0	2238.3	2254.5	2160.0	2070.9	1976.4
45°	21102.7	20368.4	16855.7	6687.8	3558.5	2459.6	2227.5	2216.7	2122.2	2011.5	1903.5
47.5°	21761.5	21002.8	17406.5	6857.9	3485.6	2365.1	2168.1	2187.0	2089.8	1949.4	1844.1
50°	22271.8	21602.2	18149.0	7122.4	3412.7	2289.6	2092.5	2195.1	2062.8	1917.0	1795.5
52.5°	22922.5	22323.1	19042.7	7484.2	3350.6	2205.9	2025.0	2195.1	2060.1	1919.7	1787.4
55°	23824.3	23192.5	20120.0	7783.9	3250.7	2127.6	1965.6	2133.0	2052.0	1906.2	1765.8
57.5°	24456.1	23983.6	20881.3	7983.7	3107.6	2027.7	1911.6	2073.6	2016.9	1854.9	1701.0
58°	24485.8	24024.1	20992.0	8029.6	3072.5	2008.8	1898.1	2046.6	2000.7	1833.3	1679.4
60°	24145.6	23748.7	21013.6	7964.8	2872.7	1914.3	1827.9	1935.9	1914.3	1706.4	1563.3
62.5°	22909.0	22485.1	20141.6	7438.3	2608.1	1798.2	1719.9	1787.4	1738.8	1528.2	1395.9
65°	21151.3	20371.1	18348.8	6612.2	2419.1	1674.0	1574.1	1579.5	1528.2	1377.0	1260.9
67.5°	18810.5	17938.4	15535.5	5572.7	2276.1	1536.3	1401.3	1387.8	1325.7	1228.5	1134.0
70°	15929.7	15333.0	12624.9	4533.2	2116.8	1385.1	1206.9	1198.8	1161.0	1088.1	1004.4
72.5°	12911.1	12152.4	10195.0	3628.7	1922.4	1239.3	1026.0	1042.2	993.6	942.3	866.7
75°	9528.1	9031.3	7881.1	2910.5	1660.5	1080.0	855.9	861.3	839.7	785.7	726.3
77.5°	6274.7	6126.2	5637.5	1911.6	1277.1	858.6	699.3	704.7	688.5	639.9	577.8
80°	4222.7	4122.8	3820.4	1231.2	853.2	621.0	540.0	545.4	542.7	491.4	407.7
82.5°	2602.7	2559.5	2462.3	831.6	591.3	445.5	356.4	372.6	402.3	345.6	278.1
85°	1228.5	1231.2	1487.7	453.6	348.3	286.2	194.4	207.9	207.9	207.9	156.6
87.5°	159.3	167.4	205.2	191.7	126.9	108.0	70.2	59.4	51.3	67.5	48.6
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°	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6
2.5°	8909.8	8855.8	8739.7	8712.7	8696.5	8742.4	8620.9	8653.3	8599.3	8750.5	8726.2
5°	7459.9	7465.3	7559.8	7621.9	7643.5	7621.9	7540.9	7400.5	7292.5	7249.3	7260.1
7.5°	6428.6	6523.1	6685.1	6866.0	7030.6	7079.2	7033.3	6766.1	6474.5	6290.9	6231.5
10°	6085.7	6212.6	6398.9	6542.0	6687.8	6803.9	6828.2	6620.3	6274.7	5840.0	5669.9
12.5°	6104.6	6277.4	6455.6	6501.5	6488.0	6533.9	6512.3	6477.2	6250.4	5696.9	5413.4
15°	5926.4	6131.6	6255.8	6231.5	6188.3	6147.8	6091.1	6002.0	5921.0	5532.2	5219.0
17.5°	5516.0	5726.6	5829.2	5837.3	5837.3	5826.5	5688.8	5656.4	5645.6	5456.6	5264.9
20°	5591.6	5707.7	5661.8	5586.2	5607.8	5680.7	5599.7	5583.5	5645.6	5729.3	5694.2
22.5°	5634.8	5594.3	5248.7	4913.9	4838.3	5065.1	5111.0	5291.9	5543.0	5845.4	6042.5
25°	5367.5	5040.8	4422.5	4044.5	3831.2	4041.8	4317.2	4652.0	5027.3	5416.1	5645.6
27.5°	4487.3	4238.9	3796.1	3455.9	3269.6	3302.0	3536.9	3842.0	4190.3	4452.2	4619.6
30°	3380.3	3269.6	3040.1	2924.0	2810.6	2783.6	2883.5	2999.6	3153.5	3185.9	3229.1
32.5°	2489.3	2473.1	2486.6	2448.8	2427.2	2424.5	2394.8	2421.8	2438.0	2456.9	2419.1
35°	2251.8	2230.2	2192.4	2181.6	2168.1	2173.5	2160.0	2146.5	2157.3	2173.5	2184.3
37.5°	2130.3	2097.9	2043.9	2025.0	2025.0	2033.1	2011.5	2006.1	2025.0	2076.3	2103.3
40°	2035.8	1998.0	1935.9	1911.6	1927.8	1949.4	1919.7	1908.9	1954.8	2008.8	2052.0
42.5°	1946.7	1917.0	1857.6	1830.6	1844.1	1884.6	1841.4	1833.3	1892.7	1952.1	2003.4
45°	1871.1	1841.4	1787.4	1773.9	1779.3	1817.1	1787.4	1787.4	1844.1	1908.9	1954.8
47.5°	1811.7	1773.9	1738.8	1728.0	1733.4	1755.0	1749.6	1749.6	1803.6	1871.1	1917.0
50°	1752.3	1719.9	1674.0	1679.4	1692.9	1722.6	1719.9	1728.0	1782.0	1865.7	1914.3
52.5°	1725.3	1676.7	1625.4	1630.8	1671.3	1706.4	1695.6	1703.7	1765.8	1922.4	1992.6
55°	1695.6	1630.8	1571.4	1579.5	1625.4	1676.7	1663.2	1674.0	1746.9	1960.2	2057.4
57.5°	1638.9	1563.3	1498.5	1503.9	1571.4	1625.4	1603.8	1617.3	1703.7	1919.7	2022.3
58°	1614.6	1549.8	1487.7	1490.4	1555.2	1614.6	1590.3	1601.1	1690.2	1908.9	2006.1
60°	1512.0	1474.2	1420.2	1422.9	1485.0	1536.3	1522.8	1533.6	1620.0	1830.6	1903.5
62.5°	1371.6	1350.0	1336.5	1336.5	1374.3	1422.9	1436.4	1449.9	1528.2	1655.1	1719.9
65°	1220.4	1220.4	1223.1	1223.1	1247.4	1309.5	1317.6	1352.7	1425.6	1487.7	1536.3
67.5°	1117.8	1112.4	1117.8	1104.3	1115.1	1152.9	1193.4	1225.8	1301.4	1344.6	1360.8
70°	985.5	982.8	985.5	966.6	980.1	1012.5	1039.5	1093.5	1171.8	1204.2	1212.3
72.5°	855.9	855.9	861.3	847.8	847.8	882.9	901.8	961.2	1034.1	1053.0	1055.7
75°	720.9	729.0	729.0	710.1	715.5	737.1	761.4	810.0	877.5	891.0	891.0
77.5°	572.4	602.1	602.1	583.2	591.3	594.0	626.4	650.7	702.0	707.4	685.8
80°	415.8	445.5	469.8	453.6	467.1	450.9	469.8	486.0	537.3	513.0	477.9
82.5°	297.0	318.6	337.5	340.2	326.7	297.0	321.3	324.0	348.3	315.9	297.0
85°	164.7	183.6	207.9	197.1	175.5	156.6	164.7	170.1	167.4	159.3	148.5
87.5°	43.2	45.9	51.3	37.8	35.1	29.7	40.5	40.5	45.9	48.6	45.9
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°	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6
2.5°	8745.1	8863.9	9120.4	9314.8	9552.4	9841.3	10181.5	10524.4	10894.3	11010.4	11172.4
5°	7235.8	7532.8	7657.0	8010.7	8361.7	8888.2	9449.8	10100.5	10813.3	11156.2	11485.5
7.5°	6182.9	6342.2	6471.8	6731.0	7152.1	7792.0	8496.7	9309.4	10319.2	10818.7	11302.0
10°	5615.9	5632.1	5791.4	6112.7	6479.9	7044.1	7711.0	8620.9	9746.8	10354.3	10921.3
12.5°	5240.6	5170.4	5343.2	5678.0	6093.8	6614.9	7227.7	8094.4	9333.7	9957.4	10643.2
15°	4911.2	4800.5	4930.1	5273.0	5683.4	6296.3	6955.0	7873.0	9171.7	9898.0	10659.4
17.5°	4919.3	4614.2	4660.1	4949.0	5356.7	5980.4	6779.6	7864.9	9417.4	10254.4	11156.2
20°	5526.8	5038.1	4830.2	4884.2	5278.4	5958.8	6860.6	8242.9	10224.7	11445.1	12408.9
22.5°	6123.5	5829.2	5494.4	5383.7	5599.7	6312.5	7376.2	9136.6	11979.6	13818.3	15559.8
25°	5915.6	6166.7	6083.0	5926.4	5975.0	6566.3	7727.2	9871.0	13343.1	15414.0	17050.1
27.5°	4733.0	5189.3	5281.1	5278.4	5297.3	5783.3	6949.6	9376.9	13513.2	15719.1	17282.3
30°	3326.3	3366.8	3415.4	3509.9	3596.3	4031.0	5437.7	8232.1	13437.6	15856.8	17422.7
32.5°	2400.2	2454.2	2521.7	2651.3	2856.5	3410.0	4757.3	7867.6	13837.2	16426.4	17833.1
35°	2195.1	2257.2	2321.9	2470.4	2664.8	3177.8	4487.3	7716.4	14493.3	17349.8	18570.2
37.5°	2130.3	2200.5	2257.2	2365.1	2521.7	3010.4	4241.6	7613.8	15165.6	18327.2	19558.4
40°	2084.4	2165.4	2211.3	2297.6	2405.6	2856.5	4022.9	7532.8	15816.3	19220.9	20352.2
42.5°	2043.9	2127.6	2187.0	2249.1	2338.1	2718.8	3828.5	7451.8	16380.5	20087.6	21143.2
45°	1995.3	2100.6	2176.2	2224.8	2303.0	2602.7	3680.0	7387.0	17023.1	20857.0	21942.4
47.5°	1954.8	2070.9	2165.4	2222.1	2251.8	2521.7	3561.2	7476.1	17795.3	21661.6	22684.9
50°	1957.5	2068.2	2187.0	2276.1	2197.8	2454.2	3488.3	7829.8	18799.7	22617.4	23270.8
52.5°	2043.9	2178.9	2273.4	2295.0	2122.2	2373.2	3450.5	8448.1	19987.7	23462.5	23862.1
55°	2141.1	2281.5	2384.0	2370.5	2081.7	2270.7	3442.4	9106.9	21289.0	24448.0	24631.6
57.5°	2106.0	2311.1	2467.7	2397.5	2084.4	2170.8	3407.3	9638.8	22377.1	25185.1	25392.9
58°	2095.2	2300.3	2478.5	2392.1	2076.3	2141.1	3399.2	9684.7	22528.3	25236.4	25500.9
60°	1989.9	2205.9	2470.4	2351.6	2030.4	2060.1	3310.1	9833.2	22487.8	24971.8	25565.7
62.5°	1798.2	1976.4	2284.2	2154.6	1890.0	1952.1	3110.3	9649.6	21391.6	23697.4	24618.1
65°	1582.2	1714.5	1919.7	1895.4	1690.2	1841.4	2837.6	8923.3	19196.6	21629.2	22598.5
67.5°	1420.2	1528.2	1657.8	1622.7	1520.1	1692.9	2543.3	7694.8	16734.2	19145.3	20365.7
70°	1255.5	1339.2	1404.0	1379.7	1347.3	1547.1	2281.5	6245.0	14374.5	16785.5	17968.1
72.5°	1088.1	1166.4	1220.4	1185.3	1166.4	1393.2	2068.2	4846.4	11353.3	13848.0	15368.1
75°	909.9	988.2	1026.0	985.5	974.7	1228.5	1752.3	3620.6	8518.3	10675.6	11987.7
77.5°	704.7	788.4	837.0	823.5	828.9	1009.8	1414.8	2478.5	6091.1	7276.3	8658.7
80°	494.1	585.9	618.3	604.8	642.6	769.5	999.0	1574.1	4201.1	4722.2	5696.9
82.5°	305.1	391.5	396.9	410.4	437.4	569.7	753.3	958.5	2637.8	2726.9	3434.3
85°	153.9	186.3	199.8	221.4	245.7	348.3	429.3	594.0	1698.3	1285.2	1919.7
87.5°	51.3	54.0	64.8	81.0	99.9	143.1	183.6	243.0	421.2	232.2	594.0
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: P457165

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6
2.5°	11499.0	11728.5	11895.9	12049.8	11901.3	11887.8	11742.0	11507.1	11410.0	11410.0
5°	12176.7	12714.0	13148.7	13426.8	13308.0	13021.8	12549.3	11947.2	11623.2	11566.5
7.5°	12363.0	13424.1	14231.4	14517.6	14317.8	13686.0	12781.5	11766.3	11302.0	11199.4
10°	12249.6	13629.3	14814.6	15268.2	14990.1	14034.3	12800.4	11555.7	10983.4	10864.6
12.5°	12130.8	13656.3	14922.6	15578.7	15397.8	14315.1	12938.1	11418.1	10756.6	10586.5
15°	12217.2	13667.1	14790.3	15468.0	15584.1	14652.6	13164.9	11517.9	10710.7	10529.8
17.5°	12762.6	13872.3	14601.3	15149.4	15557.1	15111.6	13810.2	11995.8	11121.1	10897.0
20°	13902.0	14363.7	14709.3	15133.2	15789.3	16048.5	15130.5	13308.0	12273.9	12076.8
22.5°	17201.3	17117.6	16410.2	16402.1	17352.5	18392.0	18329.9	15975.6	14420.4	14258.4
25°	18437.9	18049.1	17025.8	16777.4	17195.9	18799.7	18567.5	16520.9	15084.6	14690.4
27.5°	17954.6	16990.7	16318.4	16261.7	16124.0	17638.7	18197.6	16742.3	15316.8	14933.4
30°	17924.9	16507.4	15546.3	15659.7	15792.0	17239.1	18402.8	17436.2	15910.8	15500.4
32.5°	17997.8	16574.9	15603.0	15624.6	16018.8	17298.5	18629.6	18192.2	16691.0	16280.6
35°	18292.1	16958.3	15964.8	15913.5	16529.0	17687.3	19015.7	19380.2	17757.5	17290.4
37.5°	18767.3	17722.4	16626.2	16612.7	17506.4	18389.3	19496.3	20579.0	18818.6	18316.4
40°	19466.6	18616.1	17803.4	17730.5	18834.8	19531.4	20120.0	21856.0	20052.5	19407.2
42.5°	20311.7	19688.0	19355.9	19644.8	20705.8	20813.8	21091.9	23035.9	21102.7	20352.2
45°	21094.6	21064.9	21526.6	22293.4	22911.7	22263.7	22107.1	23827.0	21918.1	21102.7
47.5°	22026.1	22830.7	24223.9	25347.0	25995.0	23951.2	22973.8	24342.7	22512.1	21761.5
50°	22971.1	24944.8	27169.5	28735.5	28873.2	25784.4	23570.5	24828.7	23052.1	22271.8
52.5°	23964.7	26632.2	29594.1	31413.8	31146.5	27380.1	24148.3	25158.1	23608.3	22922.5
55°	24828.7	27666.3	30949.4	32696.3	32304.8	28352.1	24772.0	25514.4	24402.1	23824.3
57.5°	25311.9	27752.7	30611.9	32137.4	31713.5	28163.1	25058.2	25779.0	24909.7	24456.1
58°	25382.1	27636.6	30312.2	31813.4	31381.4	28003.8	25055.5	25768.2	24942.1	24485.8
60°	25320.0	26883.3	29197.2	30533.6	30080.0	27004.8	24952.9	25565.7	24531.7	24145.6
62.5°	24745.0	25576.5	27272.1	28244.1	28114.5	25444.2	24531.7	24801.7	23281.6	22909.0
65°	23989.0	23794.6	24807.1	25495.5	25592.7	24275.2	24113.2	23149.3	21677.8	21151.3
67.5°	23071.0	21775.0	21772.3	22163.8	22325.8	22477.0	23241.1	21353.8	19366.7	18810.5
70°	21513.1	18662.0	17803.4	18265.1	18130.1	19407.2	21683.2	18832.1	16580.3	15929.7
72.5°	18656.6	14809.2	13434.9	14028.9	13688.7	15219.6	18972.5	15497.7	13710.3	12911.1
75°	15122.4	11077.9	9660.4	10205.8	9995.2	11544.9	15786.6	11256.1	9833.2	9528.1
77.5°	11742.0	8026.9	7203.4	7127.8	7284.4	8591.2	11580.0	7600.3	6482.6	6274.7
80°	7543.6	5745.5	5794.1	5696.9	5777.9	5416.1	7030.6	4849.1	4390.1	4222.7
82.5°	4965.2	4004.0	4773.5	4406.3	4184.9	3642.2	4611.5	3175.1	2694.5	2602.7
85°	3383.0	2948.3	2683.7	2052.0	2416.4	2805.2	3458.6	1709.1	1355.4	1228.5
87.5°	1528.2	1026.0	753.3	464.4	734.4	847.8	1679.4	199.8	153.9	159.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)