

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: P530422

Luminaire Tested: **GALN-SA5C-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530422
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-SA5C-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 19276 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

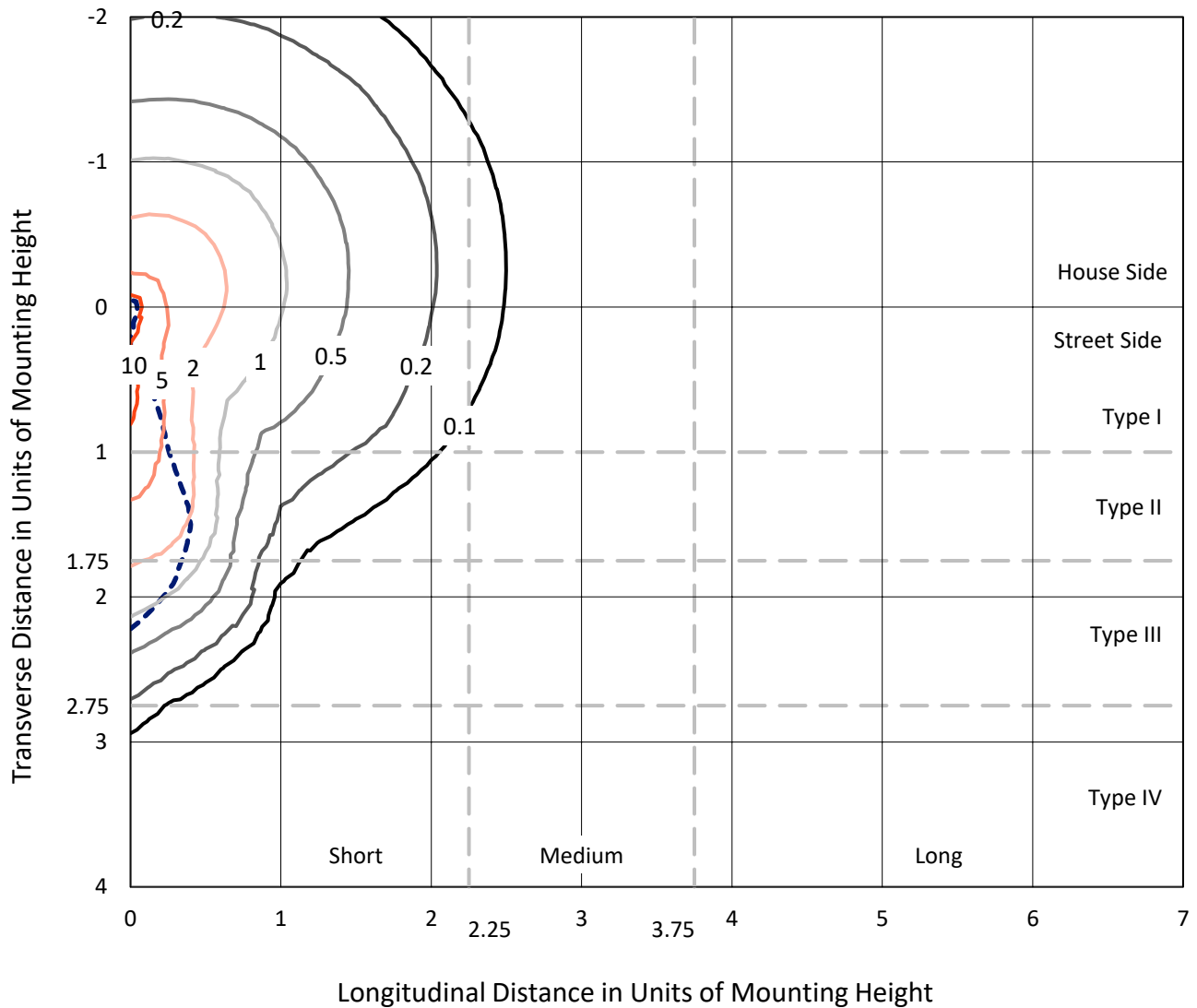
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

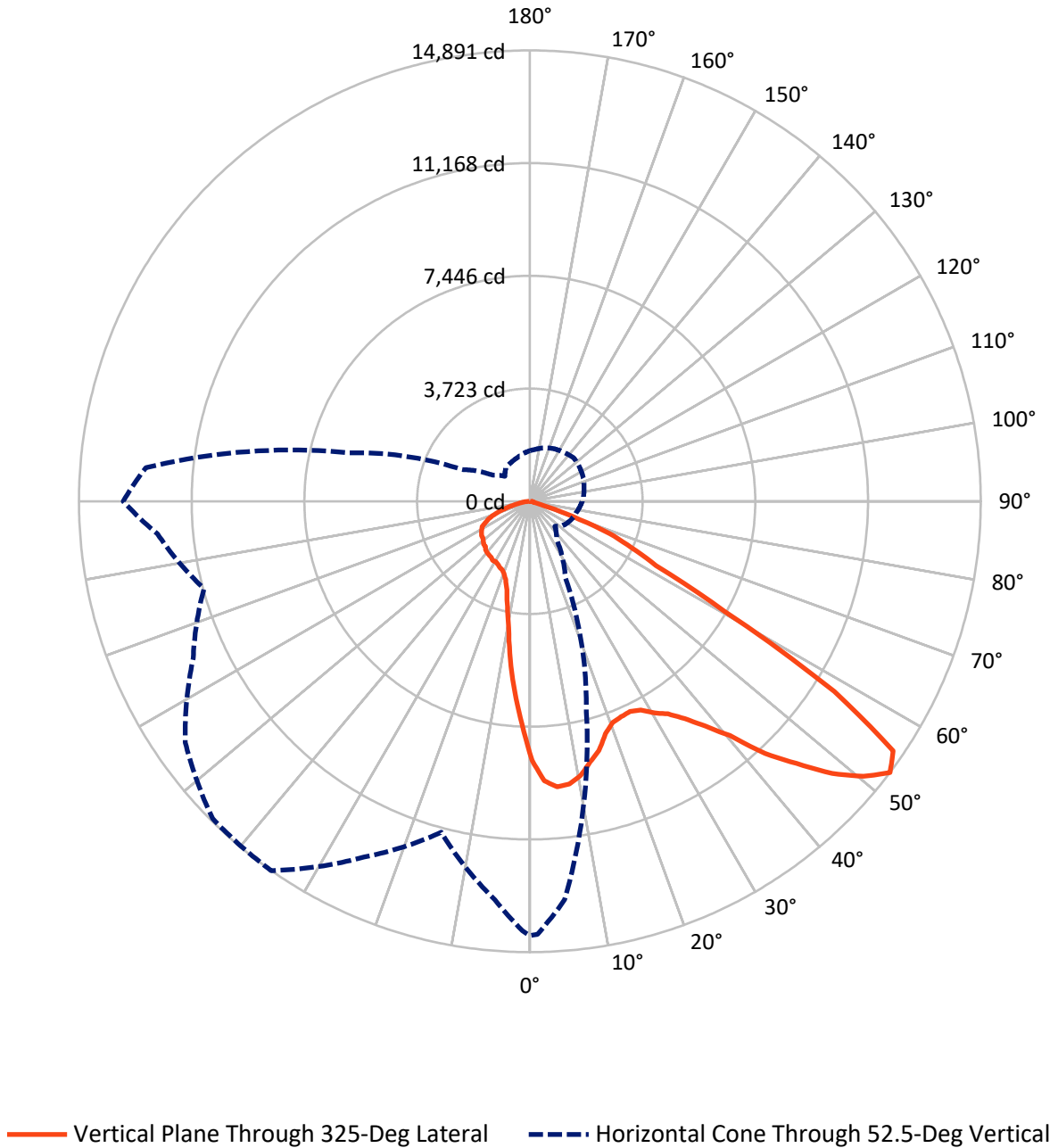
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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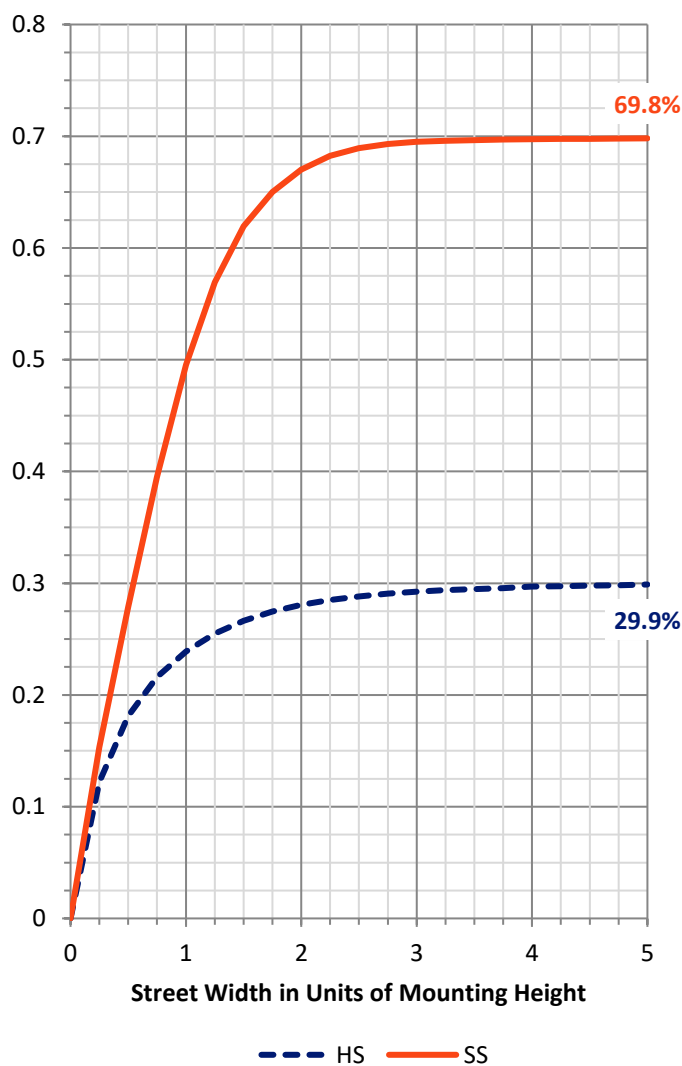
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5810.9	0.0	5810.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13465.1	0.0	13465.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	19276.0	0.0	19276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.7	3.4
10°-20°	1414.9	7.3
20°-30°	2137.7	11.1
30°-40°	3089.1	16.0
40°-50°	4111.1	21.3
50°-60°	4598.3	23.9
60°-70°	2591.6	13.4
70°-80°	577.7	3.0
80°-90°	102.9	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°	19276.0	100.0
0°-180°	19276.0	100.0

Coefficient of Utilization



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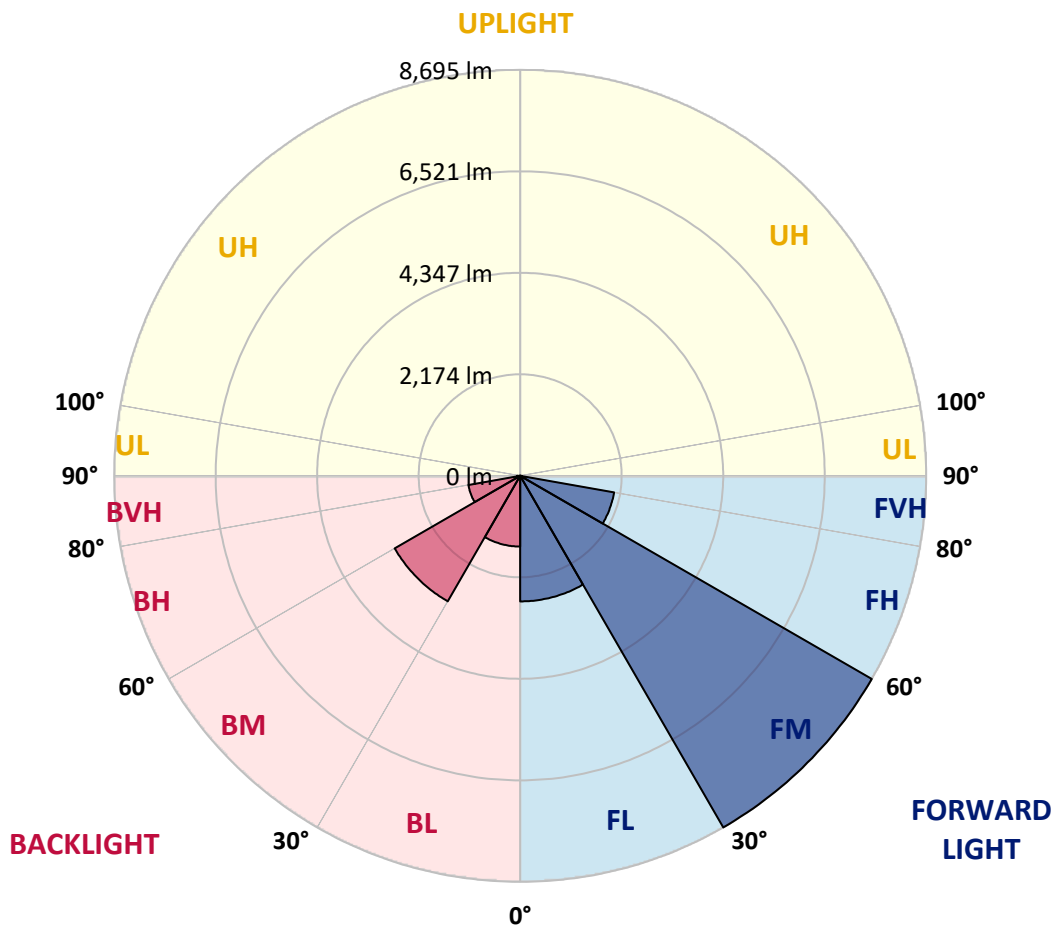
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.9	14.0			
FM (30°-60°)	8695.0	45.1			
FH (60°-80°)	2043.0	10.6			G2/5000
FVH (80°-90°)	37.3	0.2			G1/100
BL (0°-30°)	1515.3	7.9	B3/2500		
BM (30°-60°)	3103.6	16.1	B3/5000		
BH (60°-80°)	1126.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	65.6	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°	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8
2.5°	8697.3	8837.0	8686.1	8417.9	8227.9	8054.7	7873.1	7836.8	7599.3	7557.4	7384.2
5°	8202.8	8172.0	7987.7	7635.6	7247.3	6895.3	6635.4	6384.0	6213.6	6015.2	6001.2
7.5°	7602.1	7423.3	7317.1	6783.5	6303.0	5749.8	5512.3	5129.5	5009.4	4830.6	4738.4
10°	7065.7	6934.4	6685.7	6152.1	5481.6	5115.6	4861.3	4654.6	4514.9	4330.5	4098.6
12.5°	6800.3	6747.2	6467.8	5640.8	5143.5	4752.4	4573.6	4372.4	4134.9	3838.8	3724.2
15°	6847.8	6669.0	6456.6	5543.0	4855.7	4478.6	4193.6	3942.1	3637.6	3355.4	3190.6
17.5°	7202.6	7065.7	6641.0	5604.5	4746.8	4202.0	3685.1	3313.5	3039.7	2785.5	2670.9
20°	7901.0	7702.7	7224.9	5682.7	4512.1	3816.4	3224.1	2765.9	2472.6	2338.5	2299.3
22.5°	8674.9	8557.6	7794.9	5858.7	4324.9	3458.8	2735.2	2277.0	2168.0	2131.7	2204.4
25°	9616.5	9311.9	8680.5	6146.5	4179.6	3154.3	2321.7	2067.5	2011.6	2047.9	2131.7
27.5°	10331.7	10250.7	9300.8	6417.5	3981.3	2788.3	2089.8	1922.2	1938.9	1975.3	2053.5
30°	11181.0	10770.3	9901.4	6604.7	3802.4	2536.8	1927.8	1883.1	1899.8	1961.3	2000.4
32.5°	11692.3	11538.7	10278.6	6886.9	3595.7	2318.9	1802.0	1760.1	1785.3	1877.5	1969.7
35°	12343.3	12038.8	10745.2	6959.5	3450.4	2232.3	1712.6	1681.9	1740.6	1804.8	1908.2
37.5°	13103.2	12893.7	11390.6	6909.2	3372.2	2142.9	1637.2	1623.2	1665.1	1754.5	1874.7
40°	13553.0	13488.8	11728.6	6940.0	3249.3	2064.7	1550.6	1567.4	1654.0	1723.8	1841.2
42.5°	13986.1	13567.0	12228.7	6928.8	3171.0	1958.5	1559.0	1539.4	1606.5	1687.5	1799.2
45°	14081.1	13664.8	12346.1	6850.6	3076.0	1855.1	1494.7	1503.1	1584.1	1684.7	1757.3
47.5°	14019.6	13712.3	12564.0	6828.2	2986.6	1782.5	1399.7	1500.3	1547.8	1628.8	1732.2
50°	13977.7	13960.9	12748.4	6934.4	2866.5	1667.9	1285.2	1464.0	1511.5	1592.5	1704.3
52.5°	14346.5	14310.2	13209.4	7213.8	2771.5	1545.0	1167.8	1371.8	1486.3	1564.6	1673.5
55°	14570.0	14410.7	14000.0	7557.4	2612.3	1383.0	1086.8	1257.2	1424.9	1494.7	1606.5
57.5°	13106.0	12997.0	12664.6	7054.5	2344.1	1170.6	986.2	1139.9	1341.1	1450.0	1564.6
60°	10904.4	10734.0	9881.9	5995.6	1729.4	910.8	924.8	1047.7	1318.7	1360.6	1494.7
62.5°	10281.4	9859.5	8700.1	4825.0	1327.1	782.3	829.8	963.9	1201.4	1271.2	1405.3
65°	8158.1	7845.2	6224.7	3483.9	888.4	678.9	757.1	868.9	1036.5	1173.4	1296.4
67.5°	5107.2	4808.2	3321.9	1648.4	620.2	581.1	676.1	793.5	930.4	1053.3	1190.2
70°	2668.1	2341.3	1533.8	595.1	427.5	475.0	564.4	676.1	810.2	910.8	1017.0
72.5°	994.6	807.4	500.1	257.0	296.1	363.2	458.2	539.2	634.2	757.1	815.8
75°	153.7	131.3	128.5	156.5	201.2	262.6	326.9	407.9	491.7	569.9	609.1
77.5°	72.6	69.8	78.2	103.4	134.1	187.2	237.5	315.7	382.8	433.0	455.4
80°	47.5	44.7	50.3	69.8	100.6	139.7	190.0	243.1	304.5	346.4	340.9
82.5°	27.9	30.7	30.7	47.5	69.8	100.6	136.9	184.4	226.3	262.6	240.3
85°	16.8	14.0	14.0	27.9	47.5	81.0	114.5	78.2	81.0	81.0	92.2
87.5°	5.6	5.6	5.6	2.8	5.6	5.6	8.4	14.0	16.8	19.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8
2.5°	7378.6	7465.2	7434.5	7325.5	7409.3	7423.3	7367.4	7560.2	7596.5	7537.8	7554.6
5°	5981.7	6004.0	6054.3	6160.5	6235.9	6325.3	6325.3	6330.9	6255.5	6445.4	6389.6
7.5°	4660.2	4674.1	4732.8	4959.1	5023.4	5193.8	5266.4	5216.1	5065.3	5001.0	5054.1
10°	4023.2	3942.1	3922.6	3950.5	4095.8	4168.4	4229.9	4213.1	4188.0	4137.7	4081.8
12.5°	3598.5	3539.8	3492.3	3425.3	3433.7	3503.5	3551.0	3511.9	3523.1	3534.2	3551.0
15°	3137.5	3095.6	3070.5	2969.9	2958.7	3006.2	3023.0	3045.3	3087.2	3090.0	3070.5
17.5°	2648.6	2612.3	2668.1	2724.0	2684.9	2687.7	2718.4	2738.0	2726.8	2676.5	2651.4
20°	2313.3	2352.4	2408.3	2461.4	2503.3	2528.4	2539.6	2508.9	2472.6	2369.2	2366.4
22.5°	2215.5	2265.8	2313.3	2394.3	2433.5	2497.7	2439.0	2369.2	2318.9	2268.6	2209.9
25°	2142.9	2184.8	2279.8	2310.5	2386.0	2439.0	2397.1	2327.3	2240.7	2168.0	2123.3
27.5°	2089.8	2137.3	2198.8	2282.6	2341.3	2372.0	2330.1	2302.1	2212.7	2126.1	2061.9
30°	2056.3	2106.6	2218.3	2288.2	2338.5	2363.6	2291.0	2257.4	2193.2	2120.5	2064.7
32.5°	2033.9	2078.6	2173.6	2263.0	2296.6	2296.6	2307.7	2268.6	2179.2	2056.3	2008.8
35°	1961.3	2022.8	2101.0	2204.4	2265.8	2302.1	2246.3	2201.6	2142.9	2017.2	1930.6
37.5°	1919.4	1961.3	2061.9	2159.7	2212.7	2251.9	2229.5	2151.3	2073.0	1969.7	1899.8
40°	1874.7	1941.7	2031.1	2123.3	2182.0	2221.1	2204.4	2112.2	2017.2	1919.4	1871.9
42.5°	1843.9	1888.7	1980.8	2084.2	2154.1	2229.5	2179.2	2064.7	1997.6	1863.5	1810.4
45°	1818.8	1891.4	1989.2	2031.1	2103.8	2182.0	2092.6	2022.8	1944.5	1846.7	1802.0
47.5°	1788.1	1855.1	1919.4	2031.1	2064.7	2101.0	2084.2	1972.5	1905.4	1799.2	1768.5
50°	1776.9	1802.0	1919.4	1980.8	2028.3	2064.7	2020.0	1936.1	1871.9	1762.9	1695.9
52.5°	1732.2	1779.7	1855.1	1936.1	1994.8	2039.5	1966.9	1913.8	1827.2	1712.6	1670.7
55°	1676.3	1704.3	1838.4	1922.2	1952.9	1983.6	1955.7	1869.1	1779.7	1662.3	1620.4
57.5°	1603.7	1667.9	1776.9	1894.2	1933.4	1950.1	1905.4	1835.6	1723.8	1620.4	1553.4
60°	1528.2	1595.3	1715.4	1810.4	1849.5	1911.0	1843.9	1802.0	1673.5	1559.0	1486.3
62.5°	1452.8	1528.2	1617.6	1737.8	1771.3	1796.5	1779.7	1721.0	1617.6	1489.1	1399.7
65°	1363.4	1419.3	1531.0	1592.5	1614.9	1673.5	1614.9	1592.5	1500.3	1377.4	1301.9
67.5°	1229.3	1276.8	1374.6	1433.3	1450.0	1475.2	1472.4	1447.2	1343.8	1260.0	1193.0
70°	1075.6	1117.5	1179.0	1248.9	1257.2	1288.0	1260.0	1254.4	1187.4	1072.8	1036.5
72.5°	863.3	902.4	983.4	1014.2	1017.0	1028.1	1014.2	994.6	977.9	857.7	821.4
75°	662.1	684.5	723.6	751.5	751.5	765.5	757.1	737.6	692.9	617.4	581.1
77.5°	461.0	483.3	533.6	550.4	547.6	553.2	528.0	508.5	441.4	402.3	371.6
80°	335.3	349.2	374.4	385.6	388.3	396.7	366.0	349.2	310.1	265.4	251.4
82.5°	243.1	251.4	254.2	268.2	268.2	254.2	245.9	229.1	201.2	173.2	162.0
85°	100.6	103.4	106.2	122.9	125.7	150.9	139.7	131.3	114.5	97.8	89.4
87.5°	25.1	27.9	36.3	30.7	36.3	36.3	39.1	44.7	44.7	36.3	36.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8
2.5°	7618.9	7641.2	7926.2	7962.5	8102.2	8244.7	8532.5	8739.2	8906.8	9015.8	9046.5
5°	6448.2	6590.7	6722.0	6934.4	7127.1	7400.9	7716.6	8107.8	8599.5	8851.0	8951.5
7.5°	5048.5	5216.1	5406.1	5612.9	5895.1	6386.8	6808.6	7261.2	7889.9	8149.7	8543.6
10°	4120.9	4308.1	4559.6	4718.8	5059.7	5529.1	6020.8	6543.2	7143.9	7518.3	7973.7
12.5°	3643.2	3796.9	4028.7	4364.0	4618.3	4922.8	5288.8	5948.1	6808.6	7163.5	7476.4
15°	3115.2	3285.6	3553.8	3925.4	4229.9	4593.1	5003.8	5721.8	6638.2	7185.8	7451.2
17.5°	2679.3	2802.2	3084.4	3405.7	3755.0	4151.7	4741.2	5710.7	6817.0	7518.3	7951.3
20°	2377.6	2394.3	2548.0	2821.8	3296.8	3813.6	4579.1	5654.8	7389.8	8091.0	8638.6
22.5°	2187.6	2170.8	2173.6	2405.5	2738.0	3481.2	4324.9	5844.8	8040.7	9001.8	9370.6
25°	2092.6	2047.9	2020.0	2070.3	2372.0	3087.2	4132.1	6096.2	8742.0	9753.4	10206.0
27.5°	2042.3	1964.1	1908.2	1916.6	2137.3	2888.9	4012.0	6205.2	9437.7	10801.1	10960.3
30°	2022.8	1925.0	1843.9	1816.0	1961.3	2612.3	3755.0	6392.4	10060.7	11376.6	11513.5
32.5°	1952.9	1832.8	1754.5	1729.4	1788.1	2369.2	3570.6	6526.5	10611.1	12002.4	11954.9
35°	1871.9	1771.3	1673.5	1626.0	1667.9	2212.7	3422.5	6462.2	11259.3	12488.6	12463.4
37.5°	1863.5	1732.2	1651.2	1572.9	1570.2	2020.0	3221.3	6523.7	11672.8	13360.3	13016.6
40°	1790.9	1707.1	1600.9	1536.6	1500.3	1922.2	3025.8	6378.4	12279.0	13712.3	13374.2
42.5°	1793.7	1667.9	1575.7	1500.3	1464.0	1779.7	2891.6	6339.3	12491.4	14285.0	13541.9
45°	1749.0	1626.0	1547.8	1458.4	1438.8	1670.7	2763.1	6157.7	12865.7	14313.0	13332.3
47.5°	1704.3	1595.3	1511.5	1405.3	1360.6	1631.6	2662.6	6006.8	12670.2	14050.3	13041.8
50°	1673.5	1547.8	1469.6	1394.1	1268.4	1564.6	2531.2	5970.5	12396.4	13695.5	12502.5
52.5°	1620.4	1508.7	1427.7	1369.0	1167.8	1503.1	2480.9	6182.8	12731.6	13430.1	12346.1
55°	1570.2	1455.6	1352.2	1237.7	1084.0	1341.1	2341.3	6381.2	13220.6	14042.0	13055.7
57.5°	1517.1	1408.1	1296.4	1159.5	1003.0	1173.4	2196.0	6417.5	12304.2	12977.5	12393.6
60°	1447.2	1307.5	1223.7	1044.9	916.4	972.3	1740.6	5657.6	9543.8	10837.4	10857.0
62.5°	1369.0	1218.1	1145.5	935.9	827.0	838.2	1419.3	4755.2	7741.8	8971.1	9504.7
65°	1265.6	1120.3	1033.7	866.1	762.7	726.4	1039.3	3483.9	5881.1	7278.0	7884.3
67.5°	1131.5	994.6	885.7	754.3	681.7	623.0	709.6	1961.3	3472.8	4886.5	5070.9
70°	989.0	871.7	757.1	648.2	567.2	525.2	519.7	868.9	1659.6	2629.0	2992.2
72.5°	779.5	695.7	603.5	522.5	469.4	407.9	371.6	360.4	561.6	1070.0	1478.0
75°	558.8	488.9	435.8	382.8	343.6	310.1	282.2	257.0	234.7	268.2	368.8
77.5°	352.0	326.9	285.0	271.0	248.7	240.3	229.1	215.1	198.4	187.2	187.2
80°	237.5	220.7	206.7	204.0	195.6	192.8	195.6	181.6	164.8	150.9	156.5
82.5°	159.3	156.5	153.7	150.9	153.7	156.5	162.0	159.3	145.3	136.9	139.7
85°	95.0	100.6	106.2	111.8	122.9	109.0	89.4	75.4	67.1	61.5	58.7
87.5°	36.3	50.3	44.7	41.9	44.7	41.9	39.1	36.3	30.7	27.9	27.9
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: P530422

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8	8554.8
2.5°	9250.5	9306.4	9353.9	9342.7	9244.9	9113.6	9060.5	8789.5	8733.6	8697.3
5°	9376.2	9700.3	9770.1	9728.2	9474.0	9152.7	8839.8	8443.1	8211.2	8202.8
7.5°	9144.3	9543.8	9669.6	9764.5	9426.5	8867.7	8331.3	7736.2	7590.9	7602.1
10°	8554.8	9191.8	9501.9	9599.7	9211.4	8728.0	7984.9	7381.4	7071.3	7065.7
12.5°	8227.9	8728.0	8814.6	8951.5	8837.0	8348.1	7783.7	7107.6	6805.8	6800.3
15°	7937.4	8267.0	8292.2	8485.0	8546.4	8216.7	7836.8	7116.0	6872.9	6847.8
17.5°	8191.6	7962.5	7867.5	7892.7	8074.3	8194.4	8144.1	7590.9	7342.3	7202.6
20°	8362.0	7850.8	7563.0	7590.9	7806.1	8244.7	8602.3	8278.2	7884.3	7901.0
22.5°	8817.4	7867.5	7417.7	7387.0	7727.8	8507.3	9119.2	9147.1	8767.1	8674.9
25°	9499.1	8060.3	7373.0	7364.6	7691.5	8789.5	9722.6	10175.2	9786.9	9616.5
27.5°	10046.7	8362.0	7512.7	7540.6	7806.1	9018.6	10236.7	10837.4	10541.2	10331.7
30°	10527.3	8674.9	7708.3	7579.7	8113.4	9138.7	10457.4	11591.7	11354.3	11181.0
32.5°	10725.6	9119.2	8018.4	7806.1	8367.6	9284.0	10915.6	12323.7	12119.8	11692.3
35°	11060.9	9367.8	8186.0	8169.3	8811.8	9633.2	11130.7	12807.1	12723.3	12343.3
37.5°	11329.1	9619.3	8781.1	8596.7	9420.9	10219.9	11477.2	13474.8	13282.0	13103.2
40°	11535.9	10069.1	9337.1	9580.2	10169.7	10753.6	11795.7	13516.7	14072.7	13553.0
42.5°	11345.9	10471.4	10250.7	10831.8	11390.6	11362.6	11832.0	13840.8	14257.1	13986.1
45°	11298.4	11153.1	11695.1	12223.1	12351.7	11868.3	11572.2	13483.2	14201.2	14081.1
47.5°	11183.8	11823.6	12768.0	13628.5	13432.9	12206.4	11262.1	13418.9	14234.7	14019.6
50°	11144.7	11968.9	13561.4	14399.6	14282.2	12499.7	11116.8	13005.4	13997.3	13977.7
52.5°	11141.9	12267.9	13891.1	14818.6	14891.3	12963.5	11315.1	13215.0	14181.6	14346.5
55°	11267.6	12172.9	13849.2	14586.8	14558.8	12756.8	11337.5	13354.7	14407.9	14570.0
57.5°	10627.9	10904.4	11429.7	12013.6	11862.7	10566.4	10125.0	12346.1	13223.4	13106.0
60°	9177.8	8311.7	7719.4	7691.5	7398.1	6993.0	8286.6	11019.0	11019.0	10904.4
62.5°	8037.9	5456.4	4688.1	4470.2	4679.7	5146.3	7993.2	10717.3	10412.7	10281.4
65°	7029.4	4165.6	3389.0	3327.5	3690.7	4394.7	7227.7	9130.3	8593.9	8158.1
67.5°	4523.3	3050.9	2520.1	2411.1	2849.7	3226.9	4811.0	5615.7	5277.6	5107.2
70°	2916.8	1986.4	1402.5	1315.9	1486.3	1989.2	3073.2	3274.4	2782.7	2668.1
72.5°	1380.2	857.7	491.7	405.1	455.4	759.9	1215.3	1307.5	1086.8	994.6
75°	438.6	315.7	201.2	173.2	164.8	195.6	279.4	215.1	156.5	153.7
77.5°	195.6	187.2	159.3	134.1	117.3	97.8	81.0	67.1	69.8	72.6
80°	162.0	148.1	131.3	117.3	97.8	75.4	58.7	44.7	44.7	47.5
82.5°	142.5	128.5	114.5	97.8	83.8	61.5	44.7	30.7	27.9	27.9
85°	61.5	72.6	78.2	83.8	67.1	50.3	30.7	19.6	16.8	16.8
87.5°	25.1	22.4	19.6	16.8	14.0	14.0	11.2	8.4	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)