

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: P530474

Luminaire Tested: **GALN-SA5D-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530474
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-SA5D-722-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 1200mA 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: 21210 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

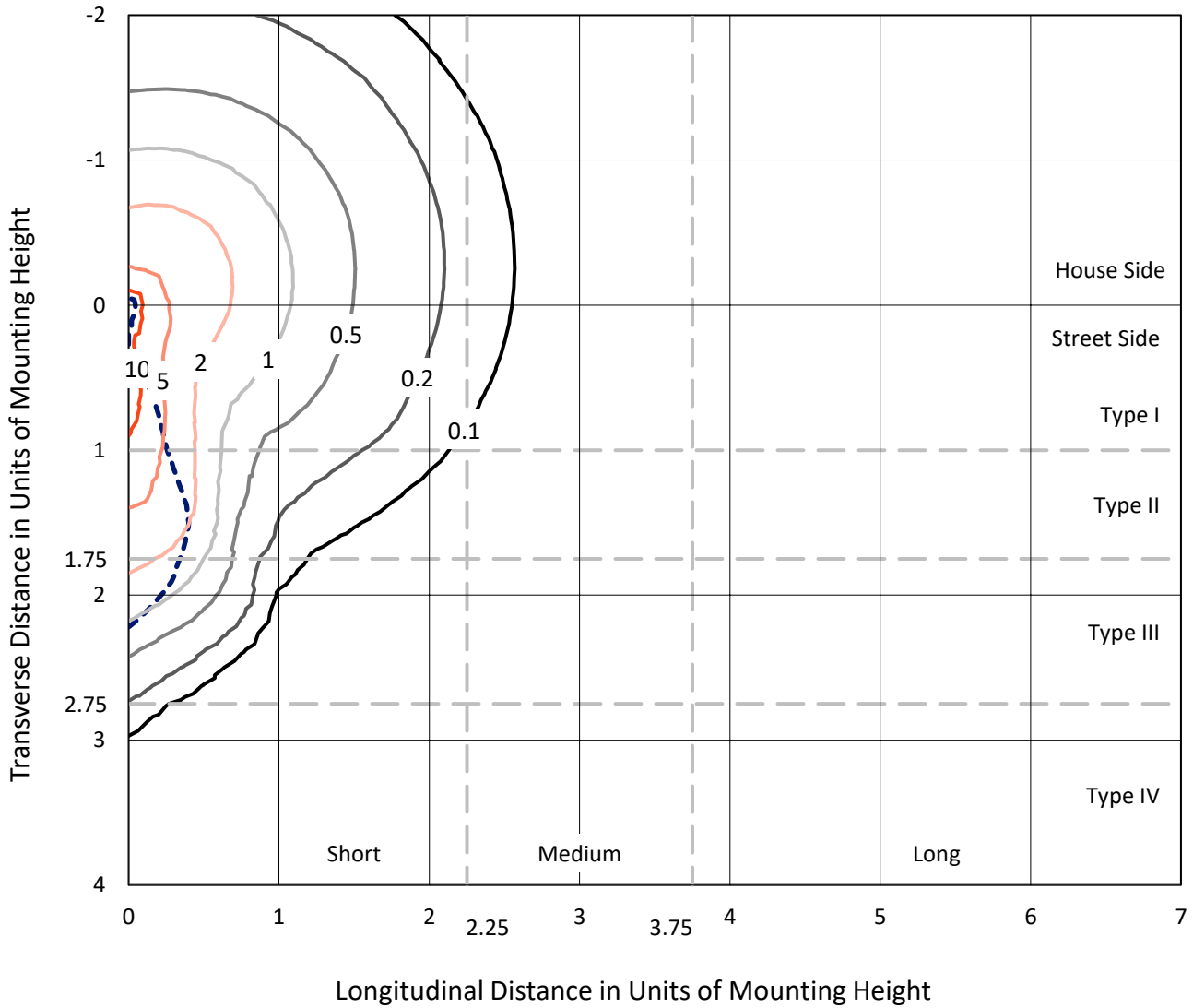
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

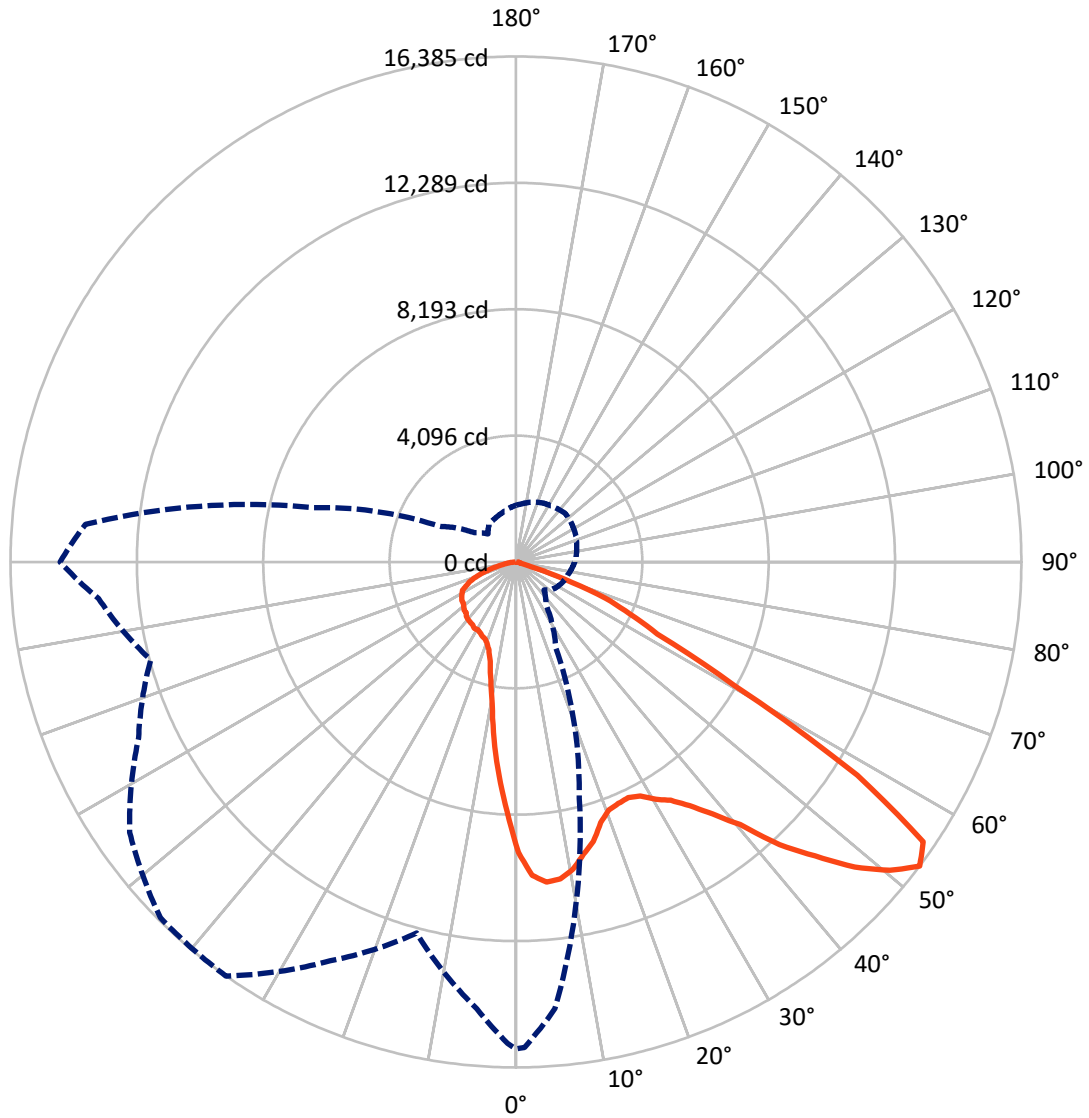
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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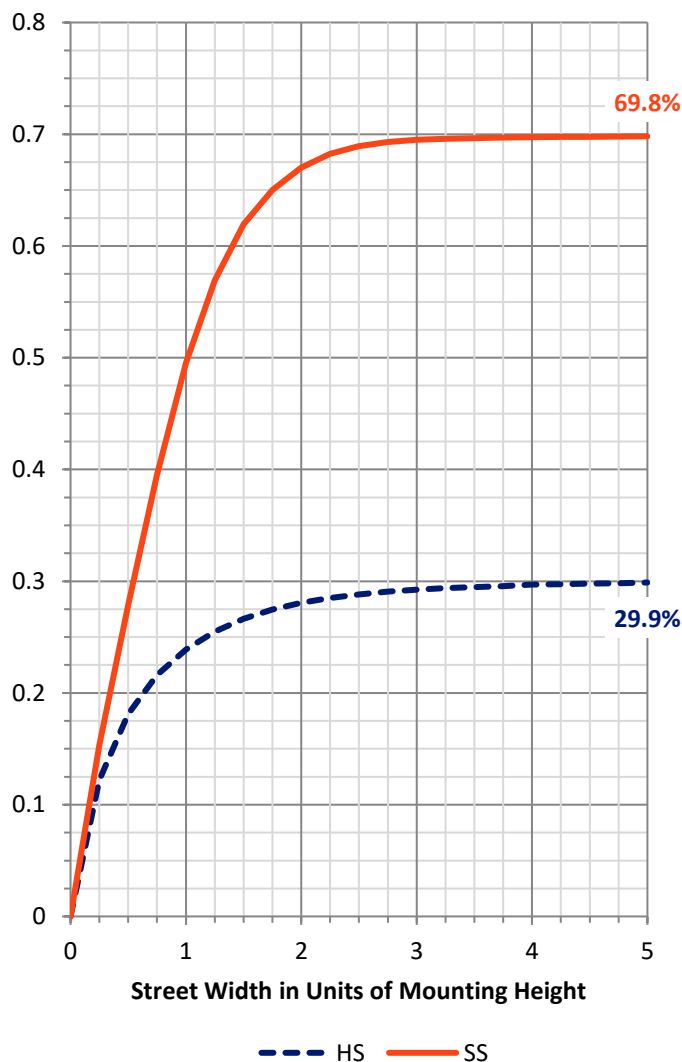
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6393.9	0.0	6393.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	14816.1	0.0	14816.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	21210.0	0.0	21210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.1	3.4
10°-20°	1556.8	7.3
20°-30°	2352.2	11.1
30°-40°	3399.1	16.0
40°-50°	4523.6	21.3
50°-60°	5059.7	23.9
60°-70°	2851.6	13.4
70°-80°	635.7	3.0
80°-90°	113.2	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°	21210.0	100.0
0°-180°	21210.0	100.0

Coefficient of Utilization



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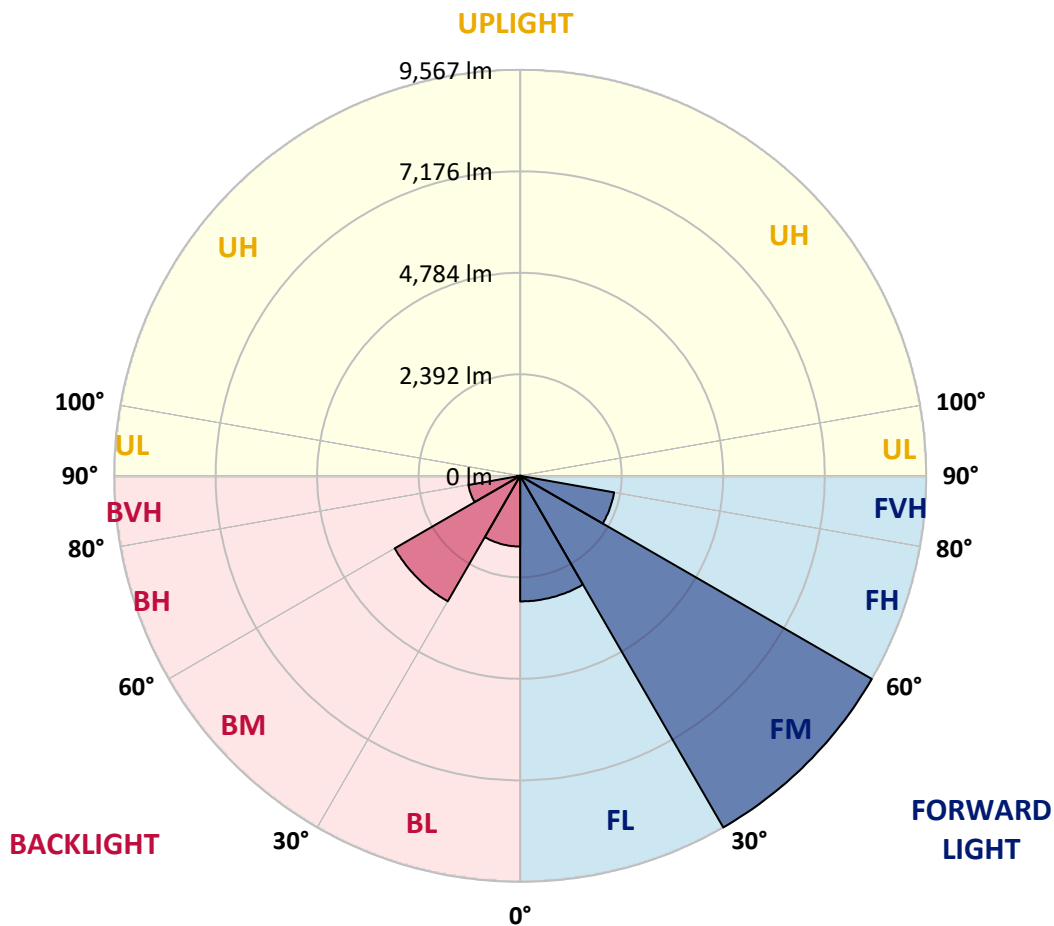
CATALOG NUMBER: GALN-SA5D-722-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2959.8	14.0			
FM (30°-60°)	9567.3	45.1			
FH (60°-80°)	2247.9	10.6			G2/5000
FVH (80°-90°)	41.0	0.2			G1/100
BL (0°-30°)	1667.4	7.9	B3/2500		
BM (30°-60°)	3415.0	16.1	B3/5000		
BH (60°-80°)	1239.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	72.2	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°	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1
2.5°	9569.9	9723.6	9557.6	9262.5	9053.4	8862.9	8663.0	8623.1	8361.8	8315.6	8125.0
5°	9025.8	8992.0	8789.1	8401.7	7974.4	7587.1	7301.2	7024.5	6837.0	6618.7	6603.3
7.5°	8364.8	8168.1	8051.3	7464.1	6935.3	6326.7	6065.4	5644.2	5512.0	5315.3	5213.8
10°	7774.6	7630.1	7356.5	6769.3	6031.5	5628.8	5349.1	5121.6	4967.9	4765.0	4509.8
12.5°	7482.5	7424.1	7116.7	6206.8	5659.6	5229.2	5032.4	4811.1	4549.8	4223.9	4097.9
15°	7534.8	7338.1	7104.4	6099.2	5342.9	4927.9	4614.3	4337.7	4002.6	3692.1	3510.7
17.5°	7925.2	7774.6	7307.3	6166.8	5223.0	4623.6	4054.8	3646.0	3344.7	3065.0	2938.9
20°	8693.8	8475.5	7949.8	6252.9	4964.8	4199.3	3547.6	3043.4	2720.6	2573.1	2530.0
22.5°	9545.3	9416.2	8577.0	6446.5	4758.8	3805.8	3009.6	2505.5	2385.6	2345.6	2425.5
25°	10581.3	10246.2	9551.5	6763.2	4599.0	3470.7	2554.6	2274.9	2213.4	2253.4	2345.6
27.5°	11368.3	11279.2	10233.9	7061.4	4380.7	3068.0	2299.5	2115.0	2133.5	2173.4	2259.5
30°	12302.9	11851.0	10894.9	7267.4	4184.0	2791.4	2121.2	2072.0	2090.4	2158.1	2201.1
32.5°	12865.4	12696.3	11309.9	7577.8	3956.5	2551.6	1982.8	1936.7	1964.4	2065.8	2167.3
35°	13581.7	13246.6	11823.3	7657.8	3796.6	2456.3	1884.5	1850.7	1915.2	1985.9	2099.7
37.5°	14417.9	14187.3	12533.4	7602.4	3710.5	2357.9	1801.5	1786.1	1832.2	1930.6	2062.8
40°	14912.8	14842.1	12905.4	7636.3	3575.3	2271.8	1706.2	1724.6	1819.9	1896.8	2025.9
42.5°	15389.3	14928.2	13455.7	7624.0	3489.2	2155.0	1715.4	1693.9	1767.7	1856.8	1979.8
45°	15493.8	15035.8	13584.8	7537.9	3384.7	2041.3	1644.7	1653.9	1743.1	1853.7	1933.7
47.5°	15426.2	15088.1	13824.6	7513.3	3286.3	1961.3	1540.2	1650.8	1703.1	1792.2	1906.0
50°	15380.1	15361.7	14027.5	7630.1	3154.1	1835.3	1414.1	1610.9	1663.1	1752.3	1875.2
52.5°	15785.9	15745.9	14534.7	7937.5	3049.6	1700.0	1285.0	1509.4	1635.5	1721.5	1841.4
55°	16031.8	15856.6	15404.7	8315.6	2874.4	1521.7	1195.9	1383.4	1567.8	1644.7	1767.7
57.5°	14421.0	14301.1	13935.2	7762.3	2579.2	1288.1	1085.2	1254.3	1475.6	1595.5	1721.5
60°	11998.5	11811.0	10873.4	6597.2	1902.9	1002.2	1017.6	1152.8	1451.0	1497.1	1644.7
62.5°	11313.0	10848.8	9573.0	5309.1	1460.2	860.8	913.0	1060.6	1321.9	1398.8	1546.3
65°	8976.6	8632.3	6849.3	3833.5	977.6	747.0	833.1	956.1	1140.5	1291.2	1426.4
67.5°	5619.6	5290.7	3655.2	1813.8	682.5	639.4	744.0	873.1	1023.7	1159.0	1309.6
70°	2935.8	2576.2	1687.7	654.8	470.3	522.6	621.0	744.0	891.5	1002.2	1119.0
72.5°	1094.4	888.4	550.3	282.8	325.9	399.6	504.2	593.3	697.8	833.1	897.7
75°	169.1	144.5	141.4	172.2	221.3	289.0	359.7	448.8	541.1	627.1	670.2
77.5°	79.9	76.9	86.1	113.7	147.6	206.0	261.3	347.4	421.2	476.5	501.1
80°	52.3	49.2	55.3	76.9	110.7	153.7	209.0	267.5	335.1	381.2	375.0
82.5°	30.7	33.8	33.8	52.3	76.9	110.7	150.6	202.9	249.0	289.0	264.4
85°	18.4	15.4	15.4	30.7	52.3	89.2	126.0	86.1	89.2	89.2	101.4
87.5°	6.1	6.1	6.1	3.1	6.1	6.1	9.2	15.4	18.4	21.5	27.7
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°	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1
2.5°	8118.9	8214.2	8180.4	8060.5	8152.7	8168.1	8106.6	8318.7	8358.7	8294.1	8312.6
5°	6581.8	6606.4	6661.7	6778.6	6861.6	6959.9	6959.9	6966.1	6883.1	7092.1	7030.6
7.5°	5127.7	5143.1	5207.7	5456.7	5527.4	5714.9	5794.8	5739.5	5573.5	5502.8	5561.2
10°	4426.8	4337.7	4316.1	4346.9	4506.7	4586.7	4654.3	4635.9	4608.2	4552.9	4491.4
12.5°	3959.5	3895.0	3842.7	3768.9	3778.2	3855.0	3907.3	3864.2	3876.5	3888.8	3907.3
15°	3452.3	3406.2	3378.5	3267.8	3255.6	3307.8	3326.3	3350.9	3397.0	3400.0	3378.5
17.5°	2914.3	2874.4	2935.8	2997.3	2954.3	2957.4	2991.2	3012.7	3000.4	2945.1	2917.4
20°	2545.4	2588.5	2649.9	2708.3	2754.5	2782.1	2794.4	2760.6	2720.6	2606.9	2603.8
22.5°	2437.8	2493.2	2545.4	2634.6	2677.6	2748.3	2683.8	2606.9	2551.6	2496.2	2431.7
25°	2357.9	2404.0	2508.5	2542.3	2625.3	2683.8	2637.6	2560.8	2465.5	2385.6	2336.4
27.5°	2299.5	2351.7	2419.4	2511.6	2576.2	2610.0	2563.9	2533.1	2434.7	2339.4	2268.7
30°	2262.6	2317.9	2440.9	2517.8	2573.1	2600.8	2520.8	2483.9	2413.2	2333.3	2271.8
32.5°	2238.0	2287.2	2391.7	2490.1	2527.0	2527.0	2539.3	2496.2	2397.9	2262.6	2210.3
35°	2158.1	2225.7	2311.8	2425.5	2493.2	2533.1	2471.6	2422.5	2357.9	2219.6	2124.3
37.5°	2112.0	2158.1	2268.7	2376.3	2434.7	2477.8	2453.2	2367.1	2281.0	2167.3	2090.4
40°	2062.8	2136.6	2234.9	2336.4	2400.9	2444.0	2425.5	2324.1	2219.6	2112.0	2059.7
42.5°	2029.0	2078.1	2179.6	2293.3	2370.2	2453.2	2397.9	2271.8	2198.0	2050.5	1992.1
45°	2001.3	2081.2	2188.8	2234.9	2314.9	2400.9	2302.6	2225.7	2139.6	2032.0	1982.8
47.5°	1967.5	2041.3	2112.0	2234.9	2271.8	2311.8	2293.3	2170.4	2096.6	1979.8	1946.0
50°	1955.2	1982.8	2112.0	2179.6	2231.9	2271.8	2222.6	2130.4	2059.7	1939.8	1866.0
52.5°	1906.0	1958.3	2041.3	2130.4	2195.0	2244.1	2164.2	2105.8	2010.5	1884.5	1838.4
55°	1844.5	1875.2	2022.8	2115.0	2148.8	2182.7	2151.9	2056.6	1958.3	1829.1	1783.0
57.5°	1764.6	1835.3	1955.2	2084.3	2127.3	2145.8	2096.6	2019.7	1896.8	1783.0	1709.2
60°	1681.6	1755.4	1887.5	1992.1	2035.1	2102.7	2029.0	1982.8	1841.4	1715.4	1635.5
62.5°	1598.6	1681.6	1779.9	1912.1	1949.0	1976.7	1958.3	1893.7	1779.9	1638.5	1540.2
65°	1500.2	1561.7	1684.6	1752.3	1776.9	1841.4	1776.9	1752.3	1650.8	1515.6	1432.6
67.5°	1352.6	1404.9	1512.5	1577.1	1595.5	1623.2	1620.1	1592.4	1478.7	1386.5	1312.7
70°	1183.6	1229.7	1297.3	1374.2	1383.4	1417.2	1386.5	1380.3	1306.5	1180.5	1140.5
72.5°	949.9	993.0	1082.1	1115.9	1119.0	1131.3	1115.9	1094.4	1076.0	943.8	903.8
75°	728.6	753.2	796.2	827.0	827.0	842.3	833.1	811.6	762.4	679.4	639.4
77.5°	507.2	531.8	587.2	605.6	602.5	608.7	581.0	559.5	485.7	442.7	408.9
80°	368.9	384.3	411.9	424.2	427.3	436.5	402.7	384.3	341.2	292.0	276.7
82.5°	267.5	276.7	279.8	295.1	295.1	279.8	270.5	252.1	221.3	190.6	178.3
85°	110.7	113.7	116.8	135.3	138.3	166.0	153.7	144.5	126.0	107.6	98.4
87.5°	27.7	30.7	40.0	33.8	40.0	40.0	43.0	49.2	49.2	40.0	40.0
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°	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1
2.5°	8383.3	8407.9	8721.4	8761.4	8915.1	9071.9	9388.5	9616.0	9800.5	9920.4	9954.2
5°	7095.2	7252.0	7396.5	7630.1	7842.2	8143.5	8490.9	8921.3	9462.3	9739.0	9849.7
7.5°	5555.0	5739.5	5948.5	6176.0	6486.5	7027.6	7491.8	7989.8	8681.5	8967.4	9400.8
10°	4534.4	4740.4	5017.1	5192.3	5567.3	6083.8	6624.9	7199.7	7860.7	8272.6	8773.7
12.5°	4008.7	4177.8	4433.0	4801.9	5081.6	5416.7	5819.4	6544.9	7491.8	7882.2	8226.5
15°	3427.7	3615.2	3910.4	4319.2	4654.3	5053.9	5505.9	6295.9	7304.2	7906.8	8198.8
17.5°	2948.1	3083.4	3393.9	3747.4	4131.7	4568.2	5216.9	6283.6	7501.0	8272.6	8749.1
20°	2616.1	2634.6	2803.6	3104.9	3627.5	4196.3	5038.6	6222.1	8131.2	8902.8	9505.4
22.5°	2407.1	2388.6	2391.7	2646.9	3012.7	3830.4	4758.8	6431.2	8847.5	9905.0	10310.8
25°	2302.6	2253.4	2222.6	2278.0	2610.0	3397.0	4546.7	6707.9	9619.1	10732.0	11230.0
27.5°	2247.2	2161.1	2099.7	2108.9	2351.7	3178.7	4414.5	6827.7	10384.6	11884.8	12060.0
30°	2225.7	2118.1	2029.0	1998.2	2158.1	2874.4	4131.7	7033.7	11070.1	12518.0	12668.7
32.5°	2148.8	2016.7	1930.6	1902.9	1967.5	2606.9	3928.8	7181.3	11675.7	13206.7	13154.4
35°	2059.7	1949.0	1841.4	1789.2	1835.3	2434.7	3765.9	7110.6	12388.9	13741.6	13713.9
37.5°	2050.5	1906.0	1816.8	1730.8	1727.7	2222.6	3544.5	7178.2	12843.9	14700.7	14322.6
40°	1970.5	1878.3	1761.5	1690.8	1650.8	2115.0	3329.3	7018.3	13511.0	15088.1	14716.1
42.5°	1973.6	1835.3	1733.8	1650.8	1610.9	1958.3	3181.8	6975.3	13744.6	15718.3	14900.5
45°	1924.4	1789.2	1703.1	1604.7	1583.2	1838.4	3040.4	6775.5	14156.6	15749.0	14670.0
47.5°	1875.2	1755.4	1663.1	1546.3	1497.1	1795.3	2929.7	6609.5	13941.4	15460.0	14350.3
50°	1841.4	1703.1	1617.0	1534.0	1395.7	1721.5	2785.2	6569.5	13640.1	15069.6	13756.9
52.5°	1783.0	1660.1	1570.9	1506.3	1285.0	1653.9	2729.9	6803.2	14009.0	14777.6	13584.8
55°	1727.7	1601.6	1487.9	1361.9	1192.8	1475.6	2576.2	7021.4	14547.0	15450.8	14365.6
57.5°	1669.3	1549.4	1426.4	1275.8	1103.6	1291.2	2416.3	7061.4	13538.7	14279.5	13637.0
60°	1592.4	1438.7	1346.5	1149.7	1008.3	1069.8	1915.2	6225.2	10501.4	11924.7	11946.2
62.5°	1506.3	1340.3	1260.4	1029.8	910.0	922.3	1561.7	5232.2	8518.5	9871.2	10458.3
65°	1392.6	1232.7	1137.4	953.0	839.3	799.3	1143.6	3833.5	6471.1	8008.2	8675.3
67.5°	1245.0	1094.4	974.5	830.0	750.1	685.5	780.8	2158.1	3821.2	5376.7	5579.6
70°	1088.3	959.1	833.1	713.2	624.1	577.9	571.8	956.1	1826.1	2892.8	3292.4
72.5°	857.7	765.5	664.0	574.9	516.5	448.8	408.9	396.6	617.9	1177.4	1626.2
75°	614.8	538.0	479.6	421.2	378.1	341.2	310.5	282.8	258.2	295.1	405.8
77.5°	387.3	359.7	313.6	298.2	273.6	264.4	252.1	236.7	218.3	206.0	206.0
80°	261.3	242.9	227.5	224.4	215.2	212.1	215.2	199.8	181.4	166.0	172.2
82.5°	175.2	172.2	169.1	166.0	169.1	172.2	178.3	175.2	159.9	150.6	153.7
85°	104.5	110.7	116.8	123.0	135.3	119.9	98.4	83.0	73.8	67.6	64.6
87.5°	40.0	55.3	49.2	46.1	49.2	46.1	43.0	40.0	33.8	30.7	30.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1	9413.1
2.5°	10178.6	10240.1	10292.3	10280.0	10172.4	10028.0	9969.6	9671.4	9609.9	9569.9
5°	10316.9	10673.5	10750.4	10704.3	10424.5	10071.0	9726.7	9290.2	9035.0	9025.8
7.5°	10061.8	10501.4	10639.7	10744.2	10372.3	9757.4	9167.2	8512.4	8352.5	8364.8
10°	9413.1	10114.0	10455.3	10562.9	10135.6	9603.7	8786.0	8122.0	7780.7	7774.6
12.5°	9053.4	9603.7	9699.0	9849.7	9723.6	9185.6	8564.7	7820.7	7488.7	7482.5
15°	8733.7	9096.5	9124.2	9336.3	9403.9	9041.2	8623.1	7829.9	7562.5	7534.8
17.5°	9013.5	8761.4	8656.9	8684.5	8884.4	9016.6	8961.2	8352.5	8078.9	7925.2
20°	9201.0	8638.4	8321.8	8352.5	8589.2	9071.9	9465.4	9108.8	8675.3	8693.8
22.5°	9702.1	8656.9	8161.9	8128.1	8503.2	9360.9	10034.1	10064.9	9646.8	9545.3
25°	10452.2	8869.0	8112.8	8103.5	8463.2	9671.4	10698.1	11196.2	10768.8	10581.3
27.5°	11054.7	9201.0	8266.5	8297.2	8589.2	9923.4	11263.8	11924.7	11598.9	11368.3
30°	11583.5	9545.3	8481.7	8340.2	8927.4	10055.6	11506.6	12754.8	12493.5	12302.9
32.5°	11801.8	10034.1	8822.9	8589.2	9207.2	10215.5	12010.8	13560.2	13335.8	12865.4
35°	12170.7	10307.7	9007.3	8988.9	9696.0	10599.8	12247.5	14092.0	13999.8	13581.7
37.5°	12465.8	10584.4	9662.1	9459.2	10366.1	11245.3	12628.7	14826.8	14614.6	14417.9
40°	12693.3	11079.3	10273.9	10541.4	11190.0	11832.5	12979.2	14872.9	15484.6	14912.8
42.5°	12484.2	11522.0	11279.2	11918.6	12533.4	12502.7	13019.1	15229.5	15687.5	15389.3
45°	12432.0	12272.1	12868.5	13449.5	13590.9	13059.1	12733.2	14836.0	15626.0	15493.8
47.5°	12305.9	13009.9	14049.0	14995.8	14780.6	13431.1	12392.0	14765.3	15662.9	15426.2
50°	12262.9	13169.8	14922.1	15844.3	15715.2	13753.9	12232.1	14310.3	15401.6	15380.1
52.5°	12259.8	13498.7	15284.8	16305.4	16385.4	14264.2	12450.4	14540.9	15604.5	15785.9
55°	12398.2	13394.2	15238.7	16050.3	16019.5	14036.7	12475.0	14694.6	15853.5	16031.8
57.5°	11694.2	11998.5	12576.5	13219.0	13053.0	11626.5	11140.8	13584.8	14550.1	14421.0
60°	10098.7	9145.7	8493.9	8463.2	8140.4	7694.7	9118.0	12124.6	12124.6	11998.5
62.5°	8844.4	6003.9	5158.5	4918.7	5149.2	5662.6	8795.2	11792.5	11457.5	11313.0
65°	7734.6	4583.6	3729.0	3661.3	4061.0	4835.7	7952.9	10046.4	9456.2	8976.6
67.5°	4977.1	3357.0	2772.9	2653.0	3135.7	3550.7	5293.7	6179.1	5807.1	5619.6
70°	3209.4	2185.7	1543.2	1447.9	1635.5	2188.8	3381.6	3602.9	3061.9	2935.8
72.5°	1518.6	943.8	541.1	445.8	501.1	836.2	1337.3	1438.7	1195.9	1094.4
75°	482.6	347.4	221.3	190.6	181.4	215.2	307.4	236.7	172.2	169.1
77.5°	215.2	206.0	175.2	147.6	129.1	107.6	89.2	73.8	76.9	79.9
80°	178.3	162.9	144.5	129.1	107.6	83.0	64.6	49.2	49.2	52.3
82.5°	156.8	141.4	126.0	107.6	92.2	67.6	49.2	33.8	30.7	30.7
85°	67.6	79.9	86.1	92.2	73.8	55.3	33.8	21.5	18.4	18.4
87.5°	27.7	24.6	21.5	18.4	15.4	15.4	12.3	9.2	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)