

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: P457511

Luminaire Tested: **GALN-SA8D-760-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-760-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53846 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

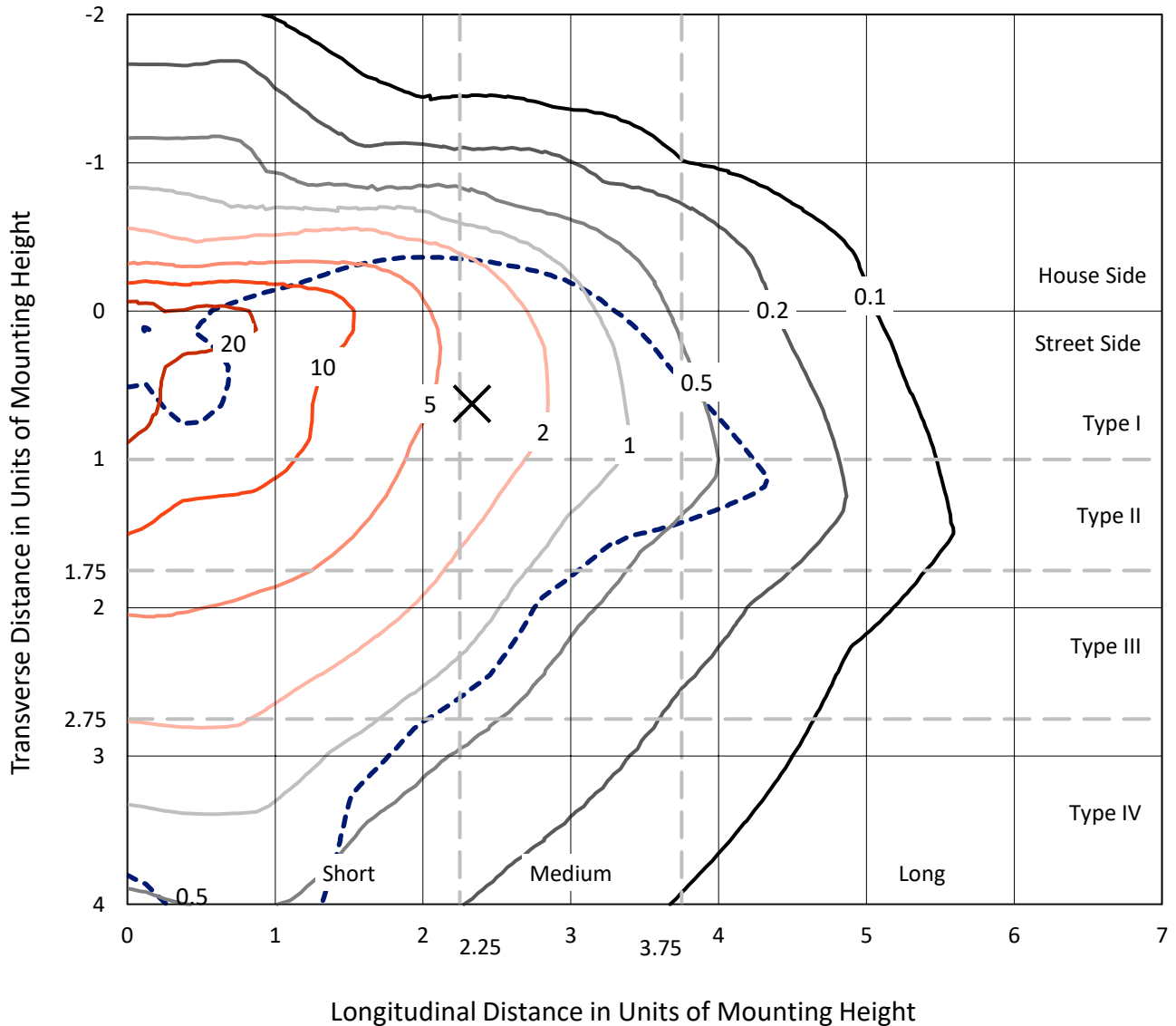
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

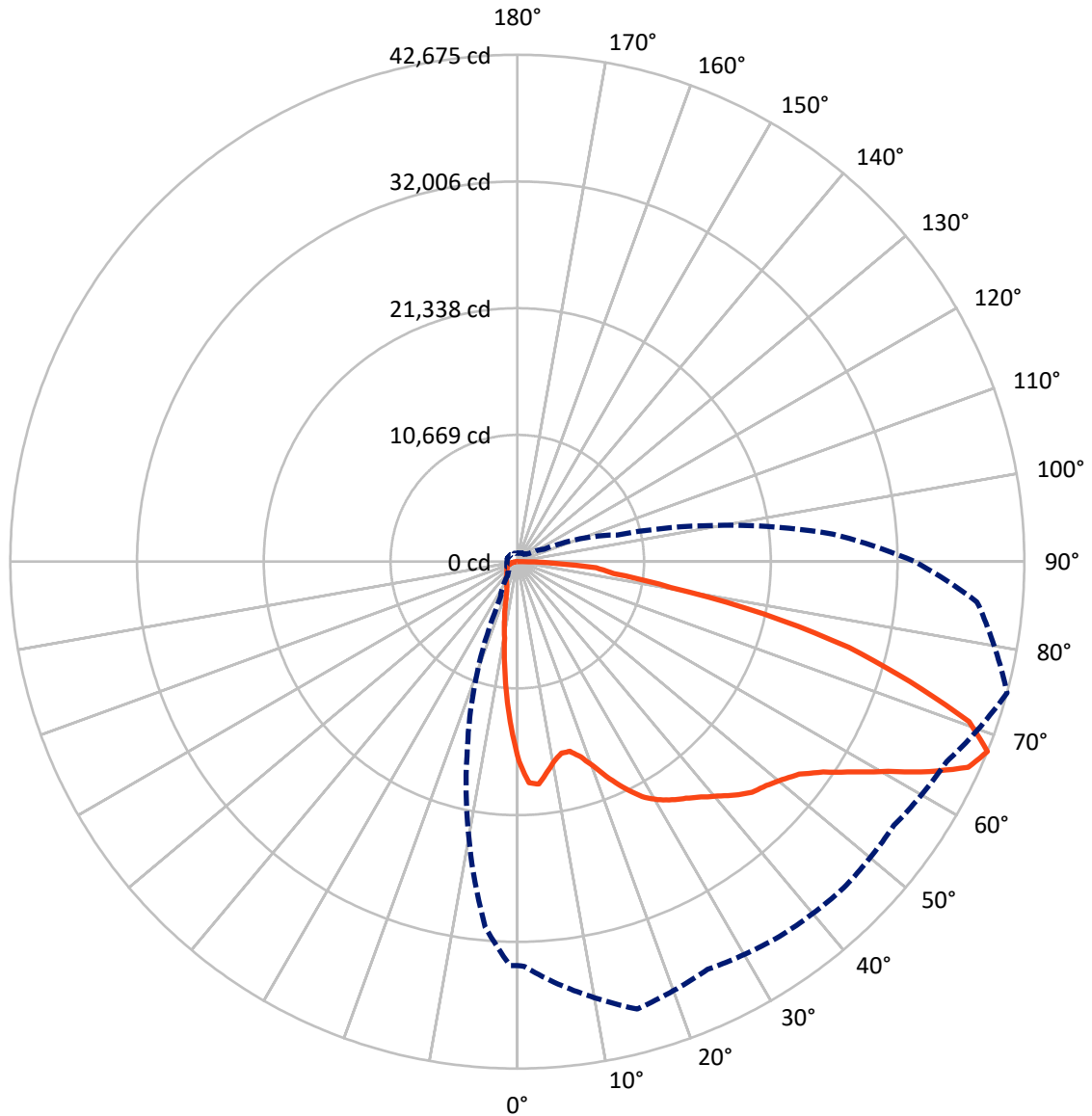
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9101.1	0.0	9101.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	44744.9	0.0	44744.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	53846.0	0.0	53846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1276.0	2.4
10°-20°	2661.1	4.9
20°-30°	3829.3	7.1
30°-40°	5515.3	10.2
40°-50°	7747.4	14.4
50°-60°	10804.9	20.1
60°-70°	12846.4	23.9
70°-80°	7565.8	14.1
80°-90°	1599.9	3.0
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°	53846.0	100.0
0°-180°	53846.0	100.0

Coefficient of Utilization



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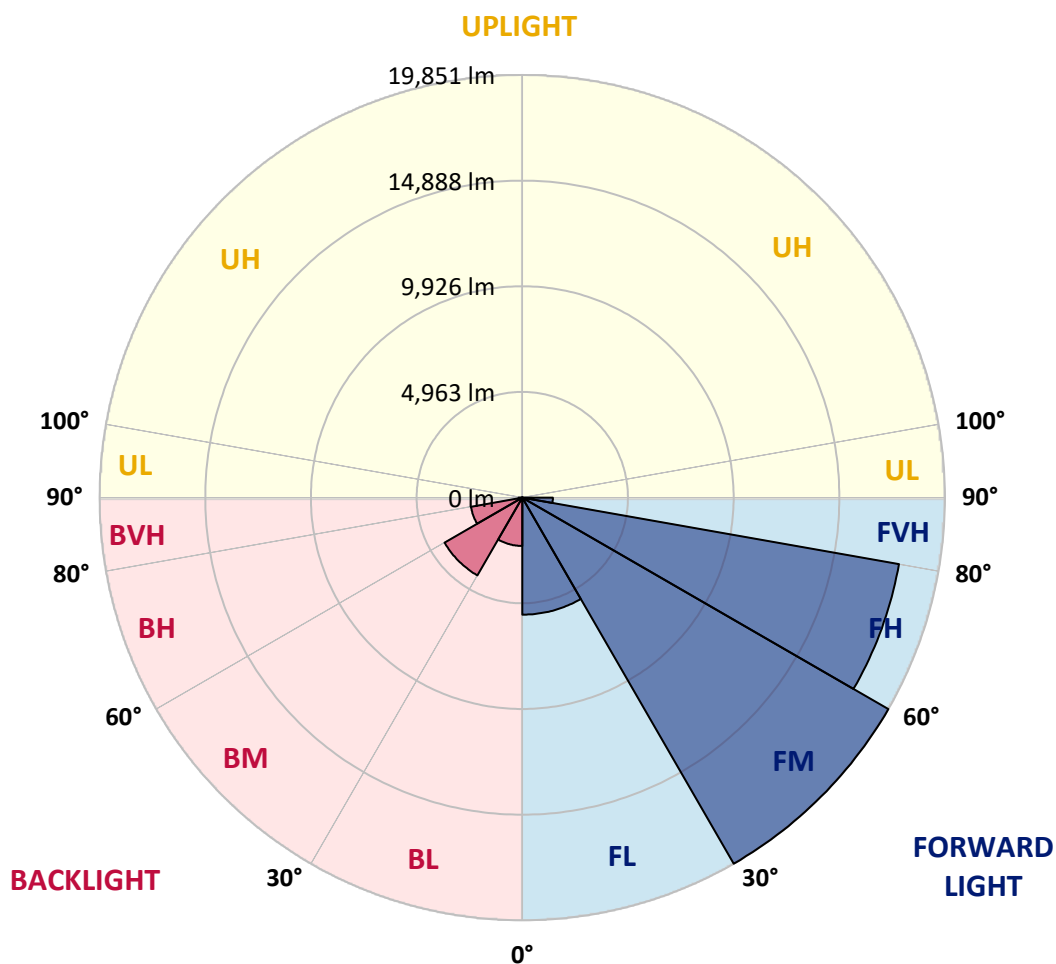
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5496.2	10.2			
FM	(30°-60°)	19851.0	36.9			
FH	(60°-80°)	17963.2	33.4			G5
FVH	(80°-90°)	1434.4	2.7			G5
BL	(0°-30°)	2270.1	4.2	B3/2500		
BM	(30°-60°)	4216.6	7.8	B3/5000		
BH	(60°-80°)	2448.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	165.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8
2.5°	18138.3	18162.5	18317.9	18770.2	19081.0	19194.9	19274.4	19125.9	18980.9	18628.7	18096.9
5°	18083.1	18224.7	18628.7	19643.8	20444.9	20790.2	20893.8	20448.4	19712.9	18808.2	17720.5
7.5°	17026.5	17216.4	17837.9	19540.2	20952.5	21760.5	21653.4	20848.9	19523.0	17910.4	16391.1
10°	15773.1	15983.7	16733.0	18790.9	20610.6	21722.5	21722.5	20741.9	18980.9	17064.5	15313.8
12.5°	14778.6	14999.6	15855.9	18020.9	19899.3	20952.5	21128.6	20286.1	18590.7	16529.3	14606.0
15°	14450.6	14664.7	15586.6	17554.8	19146.6	19788.8	19847.5	19571.3	18400.8	16567.2	14574.9
17.5°	14858.0	15134.3	16066.6	17692.9	18456.0	18494.0	18538.9	18756.4	18421.5	17261.3	15203.3
20°	16035.5	16332.4	17306.2	18138.3	17851.7	17458.1	17482.3	18041.7	18666.6	18407.7	16705.4
22.5°	17734.3	17993.3	18991.2	18922.2	17596.2	16784.8	16615.6	17396.0	19029.2	19837.2	18304.1
25°	19567.9	19871.7	21018.1	20085.8	17668.7	16384.2	16277.2	17016.1	19405.6	21173.5	20151.4
27.5°	21667.3	21964.2	22868.9	21259.8	18048.6	16353.2	16225.4	16981.6	19744.0	22409.6	21915.9
30°	23228.0	23500.8	24115.4	22247.3	18514.7	16560.3	16401.5	17254.4	20034.0	23255.6	23635.4
32.5°	24453.8	24736.9	25071.9	22862.0	19129.3	16936.7	16643.2	17751.6	20413.8	23901.3	24909.6
35°	25731.4	26066.3	26042.1	23407.5	19702.5	17371.8	17085.2	18469.8	21011.2	24464.1	26525.5
37.5°	27350.8	27485.5	27312.8	23897.9	20389.7	18155.6	17996.8	19536.8	21860.6	25144.4	28414.3
40°	28994.4	29263.7	28376.3	24491.8	21225.3	19630.0	19612.7	21114.8	22868.9	25942.0	30244.4
42.5°	30403.2	30631.1	29370.8	25009.7	22237.0	21429.0	21560.2	23231.4	24191.4	26867.4	31715.3
45°	31463.3	31667.0	30289.3	25510.4	23569.8	23507.7	24281.1	25500.0	25859.1	27699.6	32578.6
47.5°	32364.5	32561.3	30928.1	26270.0	25216.9	25990.3	27337.0	27865.3	27285.2	28176.1	33545.4
50°	33124.1	33182.8	31366.6	27174.7	27261.0	29032.4	30337.6	30679.4	28694.0	28859.7	34384.5
52.5°	33914.9	33838.9	32122.8	28314.2	29470.9	31919.1	32868.6	33224.3	30044.1	29702.3	35606.8
55°	35686.2	35758.7	33818.2	29750.6	31705.0	34753.9	36003.9	35662.1	31539.2	31252.6	37160.6
57.5°	37827.0	37764.9	36204.2	31998.5	33980.5	37392.0	38324.3	37775.3	33535.0	33383.1	38735.2
60°	38659.2	38742.1	38200.0	34415.5	36224.9	39702.0	40655.0	39802.1	35927.9	35858.9	39923.0
62.5°	37823.6	38289.7	38655.8	36566.7	38137.8	41400.9	42347.0	41373.2	38424.4	38925.1	40755.2
65°	36159.3	36259.4	37505.9	38389.9	39059.8	41680.5	42174.3	41656.4	40510.0	41718.5	40717.2
67.5°	33997.7	34084.1	35544.7	38987.2	37871.9	38503.8	38849.1	38697.2	39864.3	42675.0	38842.2
70°	31939.8	31870.7	33414.2	37464.5	32968.8	32008.8	32295.4	31818.9	34398.3	40337.3	35164.8
72.5°	27934.4	28183.0	29840.4	33231.2	26104.3	24543.6	25168.5	23935.8	26456.5	34546.7	28542.1
75°	21881.3	21940.0	24705.8	27889.5	19692.2	17230.2	18076.2	17561.7	20265.4	28818.3	19709.4
77.5°	15151.5	15020.3	17993.3	21301.2	14043.1	12613.6	12627.4	12382.3	14150.2	21218.4	13390.5
80°	9623.4	9423.1	11263.5	13159.2	9651.0	10324.3	9985.9	9975.6	9212.5	13090.1	8097.2
82.5°	5200.1	5421.1	7116.5	8249.1	6923.2	7979.8	7313.3	7099.3	6322.3	8193.8	5179.4
85°	2368.7	2575.9	3794.8	5611.0	5258.8	5317.5	3553.1	4191.9	5231.2	6653.8	2765.8
87.5°	231.3	297.0	783.8	2648.4	1795.5	1415.7	528.3	1018.6	1315.6	2365.3	221.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8
2.5°	17879.4	17699.8	17088.6	16584.5	16049.3	15641.9	15110.1	14754.4	14509.3	14139.8	14094.9
5°	17057.6	16619.0	15555.5	14471.3	13535.6	12831.2	12116.4	11460.3	11073.6	10952.8	10797.4
7.5°	15672.9	14934.0	13566.6	12323.6	11249.7	10200.0	9392.0	8818.8	8435.6	8211.1	7941.8
10°	14533.5	13677.1	12012.8	10490.1	9606.1	8953.5	8242.2	7627.6	7154.5	6750.5	6529.5
12.5°	13766.9	12800.1	10928.6	9692.4	9008.7	8314.7	7482.5	6791.9	6094.5	5635.2	5438.4
15°	13535.6	12513.5	10593.6	9295.3	8314.7	7406.6	6474.3	5573.1	4882.5	4447.4	4302.4
17.5°	14101.8	12865.7	10590.2	8767.0	7499.8	6415.6	5220.9	4374.9	3667.0	3342.5	3238.9
20°	15158.4	13542.5	10621.3	8245.6	6615.8	5089.6	3798.2	3104.2	2765.8	2627.7	2575.9
22.5°	16632.9	14574.9	10714.5	7731.2	5649.0	3908.7	2845.2	2493.0	2372.2	2348.0	2337.6
25°	18449.1	15852.5	11028.7	7268.5	4834.1	2983.3	2379.1	2220.2	2151.2	2127.0	2123.6
27.5°	20120.3	17503.0	11408.5	6871.4	4046.9	2572.4	2151.2	2016.5	1947.5	1944.0	1950.9
30°	21629.3	18884.2	11726.2	6425.9	3449.5	2285.9	2002.7	1868.0	1802.4	1799.0	1819.7
32.5°	22934.5	20020.2	11961.0	5987.4	3118.0	2109.8	1868.0	1723.0	1667.8	1657.4	1667.8
35°	24329.5	21152.8	11854.0	5645.6	2928.1	1964.7	1767.9	1626.3	1560.7	1529.7	1529.7
37.5°	25921.3	22319.9	11671.0	5362.4	2841.8	1843.9	1681.6	1543.5	1477.9	1446.8	1443.3
40°	27658.1	23487.0	11418.9	5110.4	2755.5	1771.4	1622.9	1477.9	1398.4	1367.4	1360.5
42.5°	29191.2	24484.9	11211.7	4944.6	2613.9	1785.2	1571.1	1429.5	1329.4	1287.9	1284.5
45°	30524.1	25489.7	11173.7	4847.9	2496.5	1764.5	1557.3	1391.5	1274.1	1229.2	1222.3
47.5°	31566.9	26535.9	11391.3	4792.7	2368.7	1654.0	1647.1	1367.4	1225.8	1177.5	1170.5
50°	32837.5	28020.7	11888.5	4678.7	2251.3	1550.4	1740.3	1363.9	1187.8	1125.7	1108.4
52.5°	34529.5	29954.3	12561.8	4475.0	2082.1	1453.7	1660.9	1363.9	1142.9	1080.8	1060.1
55°	37088.1	32419.7	13221.3	4188.4	1843.9	1325.9	1498.6	1322.5	1077.3	1022.1	1008.3
57.5°	38783.5	34222.2	13642.6	3791.3	1546.9	1232.7	1291.4	1256.9	1011.7	953.0	953.0
60°	38869.8	34705.6	13442.3	3290.7	1360.5	1146.4	1122.2	1267.2	953.0	890.9	884.0
62.5°	37875.4	33521.2	12399.5	2841.8	1260.3	1053.1	1015.2	1111.8	894.3	832.2	821.8
65°	36321.6	30499.9	10590.2	2627.7	1205.1	970.3	915.0	911.6	832.2	773.5	759.6
67.5°	33466.0	26653.3	8701.4	2503.4	1177.5	877.0	825.3	808.0	759.6	711.3	704.4
70°	29256.8	22323.3	6978.4	2451.6	1163.6	780.4	738.9	718.2	676.8	638.8	635.3
72.5°	22761.8	18107.3	5759.5	2417.1	1156.7	690.6	645.7	618.1	593.9	559.4	559.4
75°	16349.7	13321.5	4395.6	2178.8	1070.4	593.9	545.6	528.3	493.8	466.1	473.1
77.5°	10307.1	8970.8	2893.6	1602.2	828.7	476.5	435.1	424.7	397.1	359.1	383.3
80°	6961.1	6308.5	1688.5	1008.3	521.4	348.7	334.9	331.5	300.4	259.0	262.4
82.5°	4737.4	4647.7	877.0	573.2	300.4	203.7	196.8	203.7	169.2	138.1	138.1
85°	1850.8	2527.6	414.4	224.4	96.7	31.1	44.9	48.3	27.6	13.8	17.3
87.5°	34.5	259.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8
2.5°	14025.9	13994.8	14046.6	13825.6	13870.5	13953.4	13994.8	14019.0	14360.8	14281.4	14498.9
5°	10942.4	10911.3	11111.6	11139.2	11242.8	11222.1	11322.2	11346.4	11470.7	11515.6	11819.4
7.5°	7959.0	8093.7	8321.6	8439.0	8615.1	8670.4	8618.6	8746.3	8487.3	8673.8	8729.1
10°	6394.9	6232.6	6135.9	6405.2	6439.7	6695.3	6591.7	6508.8	6660.7	6667.6	6812.7
12.5°	5324.4	4975.7	4744.4	4820.3	4903.2	5013.7	5030.9	5196.7	5307.2	5410.8	5497.1
15°	4174.6	4053.8	3843.1	3739.5	3856.9	3901.8	4008.9	4147.0	4264.4	4295.5	4412.9
17.5°	3204.3	3225.1	3190.5	3128.4	3200.9	3235.4	3242.3	3245.8	3276.8	3256.1	3428.8
20°	2579.4	2651.9	2738.2	2752.0	2776.2	2793.4	2762.4	2645.0	2648.4	2720.9	2776.2
22.5°	2334.2	2348.0	2444.7	2475.8	2551.7	2520.7	2430.9	2375.6	2368.7	2386.0	2413.6
25°	2140.8	2161.5	2230.6	2278.9	2337.6	2282.4	2216.8	2165.0	2158.1	2175.4	2203.0
27.5°	1968.2	1999.3	2061.4	2109.8	2165.0	2113.2	2051.1	2006.2	2002.7	1999.3	2016.5
30°	1830.1	1864.6	1909.5	1964.7	2002.7	1957.8	1899.1	1875.0	1871.5	1864.6	1871.5
32.5°	1691.9	1747.2	1792.1	1819.7	1857.7	1823.2	1778.3	1764.5	1740.3	1719.6	1709.2
35°	1536.6	1595.3	1664.3	1698.9	1736.8	1702.3	1671.2	1612.5	1571.1	1567.6	1574.5
37.5°	1446.8	1471.0	1526.2	1584.9	1622.9	1605.6	1546.9	1488.2	1477.9	1477.9	1484.8
40°	1367.4	1377.7	1401.9	1477.9	1546.9	1495.1	1422.6	1405.4	1405.4	1401.9	1405.4
42.5°	1287.9	1298.3	1298.3	1357.0	1467.5	1384.6	1329.4	1329.4	1329.4	1332.8	1343.2
45°	1215.4	1218.9	1215.4	1256.9	1360.5	1291.4	1253.4	1263.8	1270.7	1277.6	1284.5
47.5°	1153.3	1156.7	1153.3	1187.8	1239.6	1212.0	1191.3	1205.1	1218.9	1229.2	1236.2
50°	1098.0	1094.6	1101.5	1122.2	1146.4	1153.3	1139.5	1160.2	1167.1	1180.9	1198.2
52.5°	1049.7	1046.2	1053.1	1063.5	1098.0	1098.0	1098.0	1115.3	1129.1	1142.9	1167.1
55°	994.4	997.9	1008.3	1022.1	1067.0	1060.1	1063.5	1077.3	1091.1	1111.8	1125.7
57.5°	942.7	949.6	963.4	984.1	1029.0	1025.5	1029.0	1035.9	1053.1	1063.5	1077.3
60°	884.0	897.8	915.0	928.8	973.7	970.3	987.5	1001.4	1011.7	1011.7	1018.6
62.5°	825.3	846.0	863.2	873.6	921.9	925.4	949.6	959.9	966.8	959.9	970.3
65°	766.6	797.6	804.5	818.3	866.7	870.1	897.8	921.9	915.0	908.1	925.4
67.5°	707.9	745.8	742.4	759.6	808.0	814.9	839.1	880.5	866.7	859.8	873.6
70°	642.2	669.9	673.3	683.7	749.3	738.9	776.9	814.9	804.5	808.0	808.0
72.5°	569.7	593.9	593.9	614.6	683.7	666.4	697.5	738.9	738.9	735.5	735.5
75°	483.4	497.2	511.0	542.1	614.6	593.9	614.6	652.6	659.5	652.6	652.6
77.5°	390.2	410.9	417.8	459.2	511.0	507.6	528.3	545.6	559.4	552.5	552.5
80°	276.2	297.0	324.6	369.5	400.5	410.9	421.3	435.1	442.0	442.0	448.9
82.5°	155.4	186.5	210.6	255.5	269.3	321.1	317.7	328.0	317.7	279.7	310.8
85°	34.5	65.6	93.2	117.4	134.7	186.5	196.8	221.0	183.0	169.2	169.2
87.5°	0.0	0.0	0.0	0.0	0.0	27.6	55.2	76.0	65.6	55.2	55.2
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°	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8	16822.8
2.5°	14681.9	14982.3	15344.9	15969.9	16408.4	16881.5	17358.0	17865.6	18000.2	18138.3
5°	11902.3	12492.8	12813.9	13653.0	14533.5	15652.2	16567.2	17568.6	17986.4	18083.1
7.5°	9015.6	9416.2	10258.7	11108.1	12199.3	13373.3	14775.2	16335.9	16822.8	17026.5
10°	7147.6	7693.2	8432.1	9343.7	10300.1	11563.9	13145.4	14968.5	15659.1	15773.1
12.5°	6084.1	6691.8	7496.4	8459.7	9364.4	10317.4	11912.7	13794.5	14533.5	14778.6
15°	4865.2	5600.7	6529.5	7544.7	8528.8	9571.6	11187.6	13311.1	14164.0	14450.6
17.5°	3822.4	4416.3	5421.1	6522.6	7689.7	9008.7	11035.6	13542.5	14592.2	14858.0
20°	2924.6	3349.4	4195.3	5359.0	6726.3	8452.8	11073.6	14416.1	15672.9	16035.5
22.5°	2527.6	2745.1	3259.6	4368.0	5897.6	7969.4	11229.0	15614.2	17130.1	17734.3
25°	2289.3	2403.3	2693.3	3418.4	5106.9	7499.8	11584.6	17226.8	19167.3	19567.9
27.5°	2085.6	2168.5	2348.0	2869.4	4388.7	7064.7	11999.0	19015.4	21069.9	21667.3
30°	1892.2	2002.7	2171.9	2548.3	3929.5	6667.6	12520.4	20465.6	22672.1	23228.0
32.5°	1743.7	1854.2	2009.6	2323.8	3539.3	6249.8	12831.2	21739.8	23980.7	24453.8
35°	1622.9	1716.1	1878.4	2144.3	3242.3	5932.2	12769.0	22751.5	25248.0	25731.4
37.5°	1536.6	1616.0	1778.3	1975.1	3017.9	5600.7	12737.9	24087.8	26791.4	27350.8
40°	1457.1	1540.0	1688.5	1864.6	2793.4	5210.5	12755.2	25413.7	28435.0	28994.4
42.5°	1395.0	1488.2	1609.1	1833.5	2562.1	4896.3	12755.2	26567.0	29864.6	30403.2
45°	1343.2	1443.3	1560.7	1830.1	2379.1	4658.0	12668.9	27558.0	31004.0	31463.3
47.5°	1298.3	1408.8	1578.0	1767.9	2334.2	4485.4	12592.9	28352.2	31932.9	32364.5
50°	1267.2	1398.4	1678.1	1695.4	2348.0	4433.6	12958.9	29353.5	32751.2	33124.1
52.5°	1243.1	1401.9	1674.7	1588.4	2323.8	4468.1	13722.0	30917.7	33887.2	33914.9
55°	1194.7	1398.4	1588.4	1467.5	2223.7	4526.8	14702.7	33189.7	35665.5	35686.2
57.5°	1146.4	1360.5	1474.4	1363.9	2020.0	4526.8	15883.6	35340.9	37809.8	37827.0
60°	1098.0	1415.7	1294.9	1274.1	1754.1	4443.9	17130.1	36287.0	38483.1	38659.2
62.5°	1049.7	1426.1	1156.7	1194.7	1560.7	4243.7	18058.9	35240.8	37571.5	37823.6
65°	994.4	1149.8	1067.0	1111.8	1460.6	3908.7	17765.4	33324.4	35858.9	36159.3
67.5°	928.8	973.7	970.3	1025.5	1426.1	3415.0	16218.5	30900.4	34015.0	33997.7
70°	849.4	873.6	884.0	942.7	1360.5	3031.7	13514.8	27754.8	31553.0	31939.8
72.5°	766.6	787.3	797.6	849.4	1294.9	2814.2	10490.1	23421.3	27330.1	27934.4
75°	676.8	690.6	704.4	749.3	1225.8	2493.0	7472.2	17879.4	20931.8	21881.3
77.5°	583.5	583.5	600.8	645.7	1032.4	2058.0	5013.7	12541.1	14181.3	15151.5
80°	473.1	476.5	469.6	517.9	759.6	1408.8	2848.7	8376.9	9436.9	9623.4
82.5°	362.6	352.2	355.7	379.8	566.3	959.9	1519.3	5203.6	5303.7	5200.1
85°	227.9	227.9	221.0	248.6	362.6	500.7	828.7	3187.1	2489.6	2368.7
87.5°	93.2	76.0	86.3	100.1	172.6	203.7	324.6	656.1	252.1	231.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)