

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: P457221

Luminaire Tested: **GALN-SA8C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457221
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-SA8C-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA 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: 48935 lumens
Efficiency: N/A
Efficacy: 114.1 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

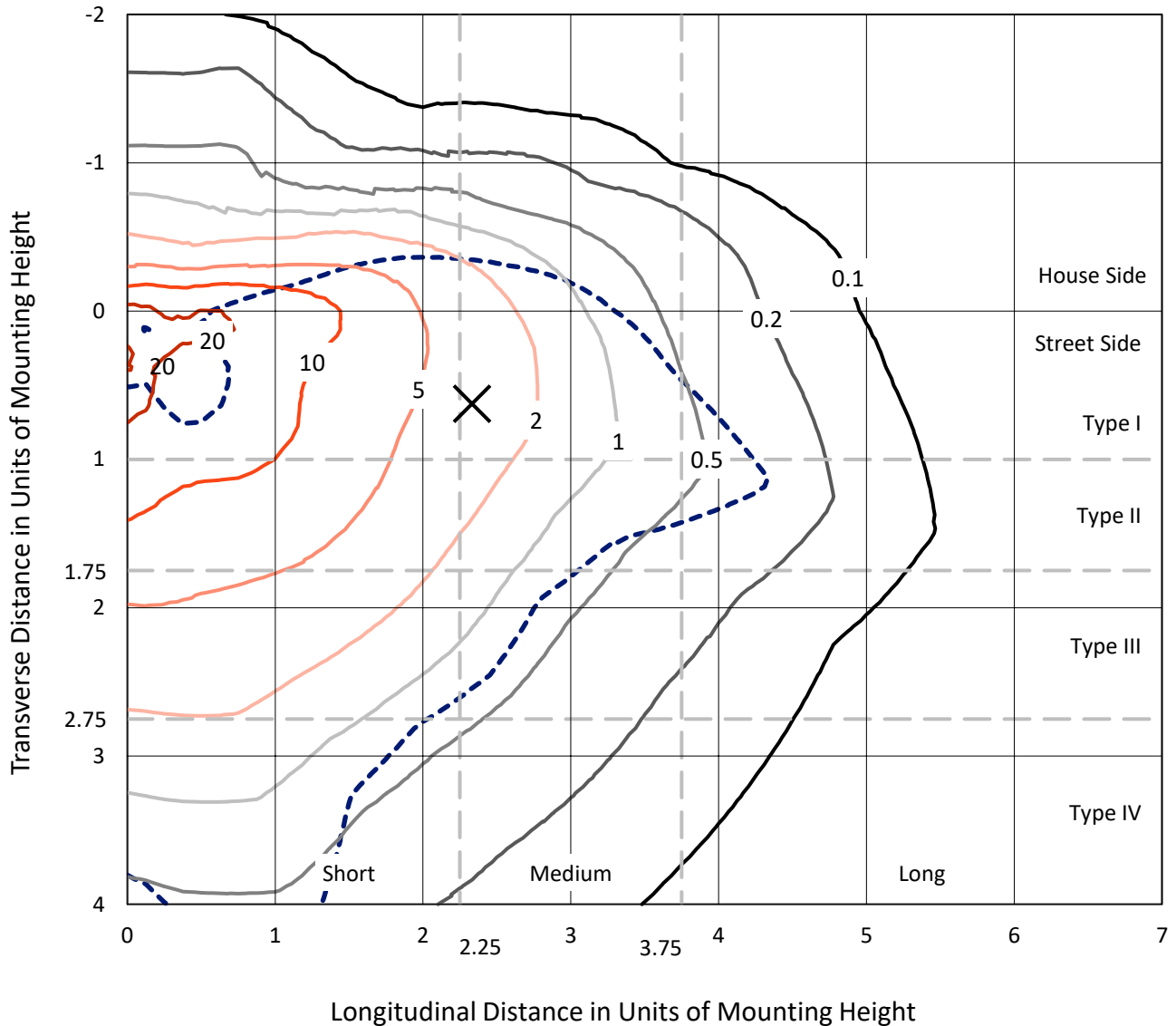
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

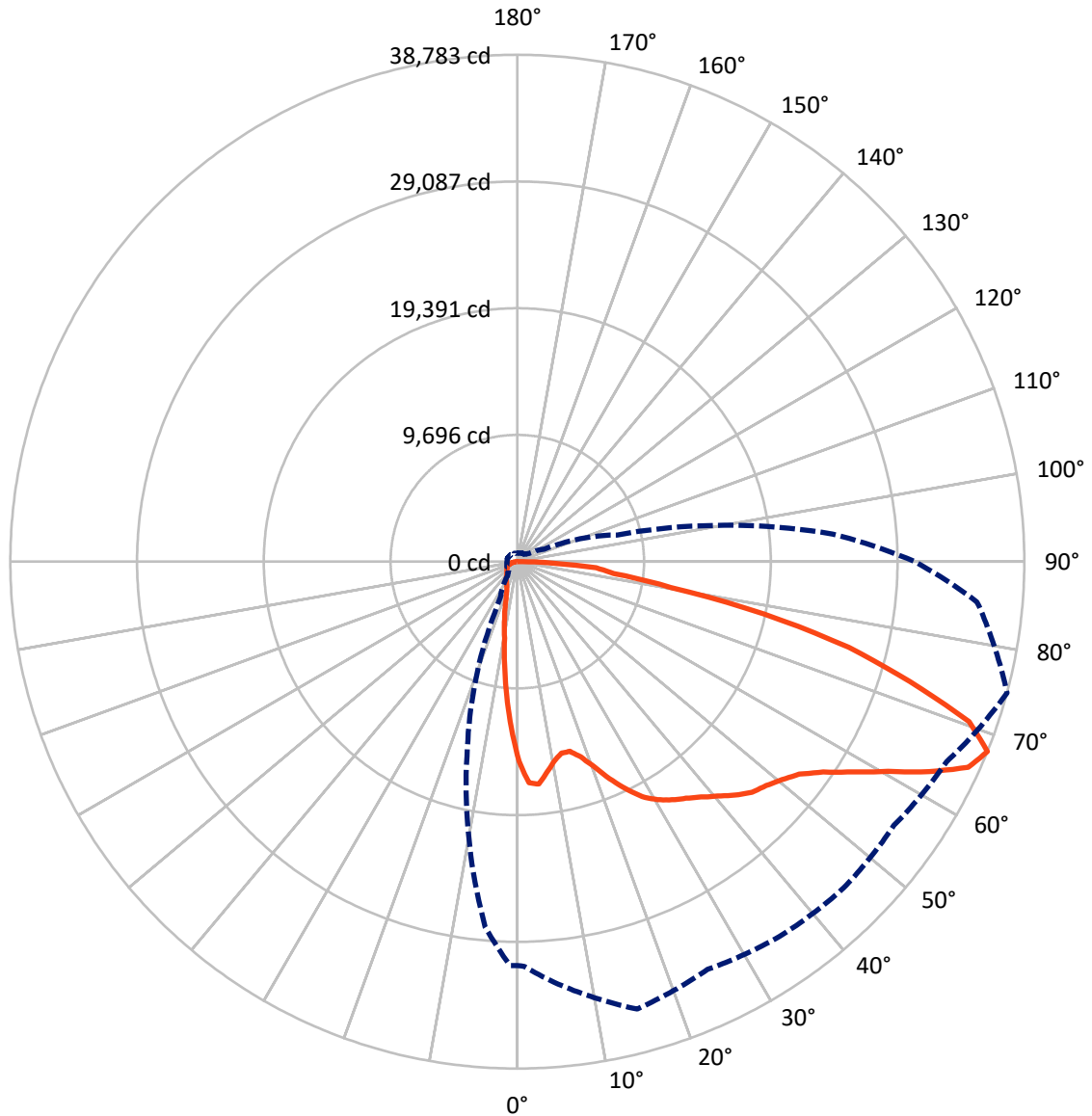
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.2 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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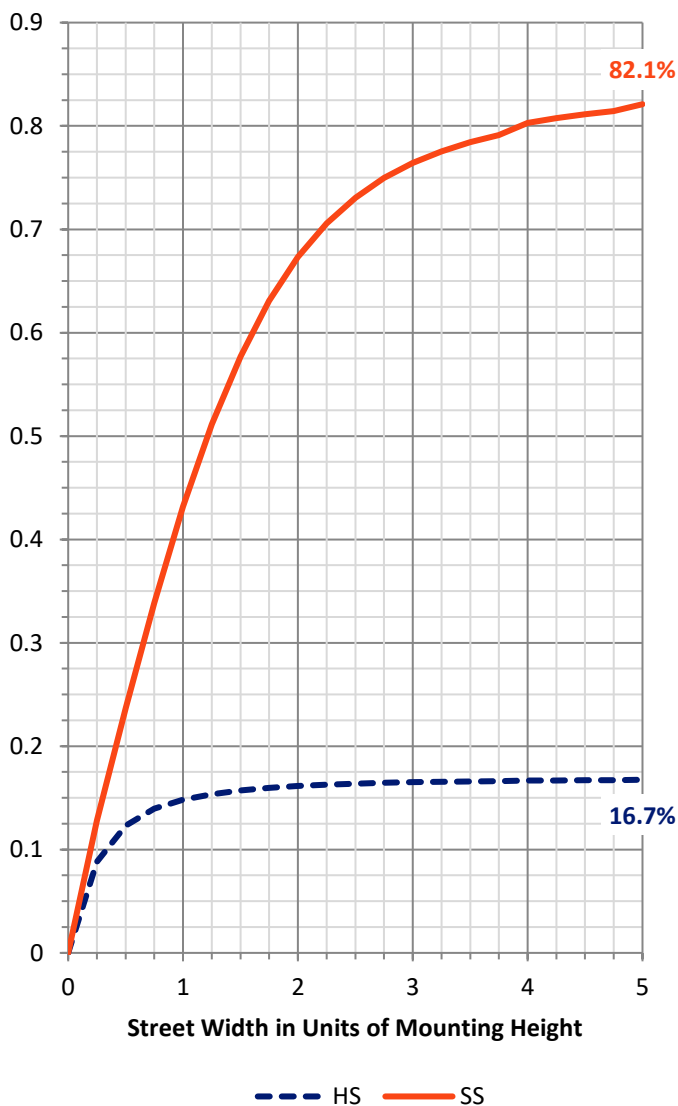
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8271.1	0.0	8271.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	40663.9	0.0	40663.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	48935.0	0.0	48935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.6	2.4
10°-20°	2418.4	4.9
20°-30°	3480.1	7.1
30°-40°	5012.2	10.2
40°-50°	7040.8	14.4
50°-60°	9819.5	20.1
60°-70°	11674.7	23.9
70°-80°	6875.8	14.1
80°-90°	1454.0	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°	48935.0	100.0
0°-180°	48935.0	100.0

Coefficient of Utilization



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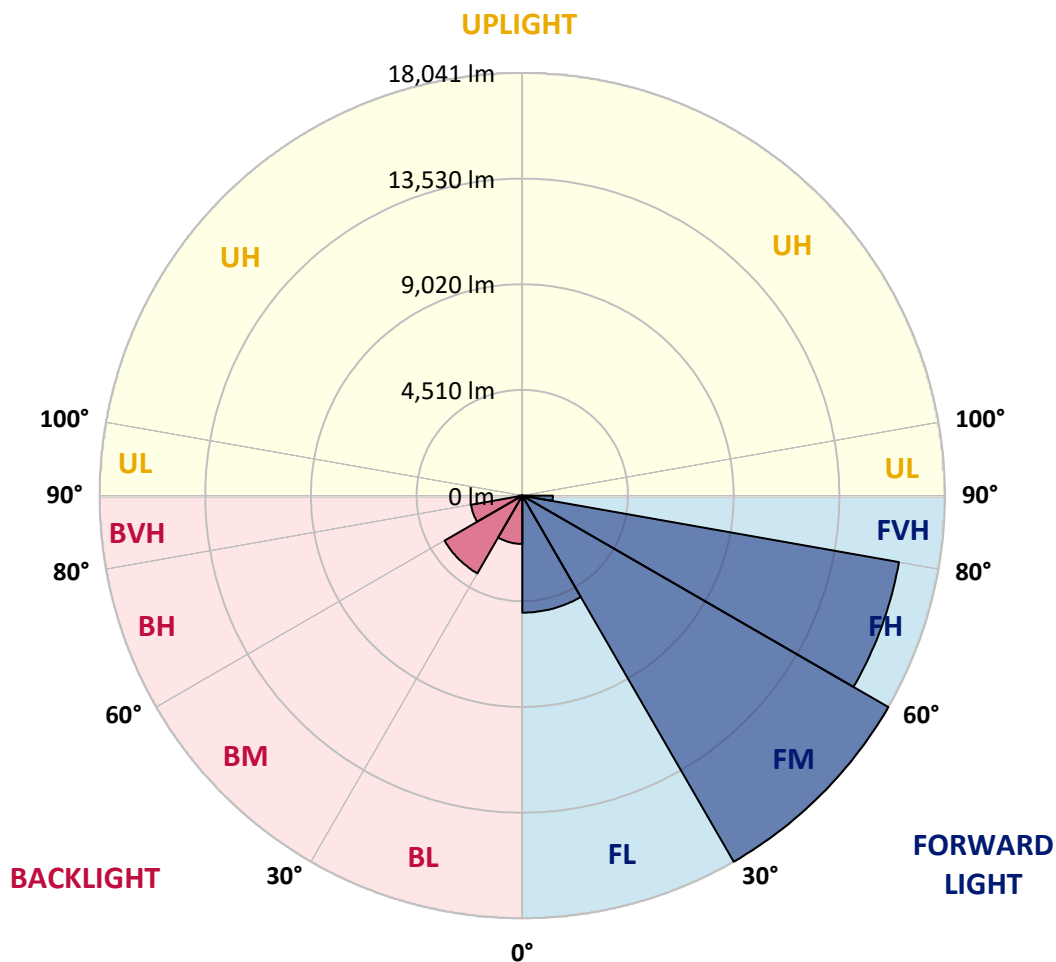
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4994.9	10.2			
FM	(30°-60°)	18040.5	36.9			
FH	(60°-80°)	16324.9	33.4			G5
FVH	(80°-90°)	1303.6	2.7			G5
BL	(0°-30°)	2063.1	4.2	B3/2500		
BM	(30°-60°)	3832.0	7.8	B3/5000		
BH	(60°-80°)	2225.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	150.4	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°	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5
2.5°	16484.0	16506.0	16647.2	17058.3	17340.7	17444.3	17516.4	17381.5	17249.7	16929.6	16446.4
5°	16433.8	16562.5	16929.6	17852.2	18580.2	18894.0	18988.2	18583.4	17915.0	17092.8	16104.3
7.5°	15473.6	15646.2	16211.0	17758.1	19041.5	19775.8	19678.5	18947.4	17742.4	16276.9	14896.2
10°	14334.5	14525.9	15206.9	17077.1	18730.9	19741.3	19741.3	18850.1	17249.7	15508.1	13917.1
12.5°	13430.7	13631.6	14409.8	16377.3	18084.4	19041.5	19201.6	18435.9	16895.1	15021.7	13273.8
15°	13132.6	13327.2	14165.0	15953.7	17400.3	17984.0	18037.4	17786.3	16722.5	15056.2	13245.6
17.5°	13502.9	13754.0	14601.2	16079.2	16772.7	16807.3	16848.0	17045.7	16741.4	15687.0	13816.7
20°	14573.0	14842.9	15727.8	16484.0	16223.6	15865.8	15887.8	16396.2	16964.2	16728.8	15181.8
22.5°	16116.9	16352.2	17259.1	17196.4	15991.4	15253.9	15100.2	15809.4	17293.6	18027.9	16634.7
25°	17783.2	18059.3	19101.2	18253.9	16057.3	14889.9	14792.6	15464.2	17635.7	19242.4	18313.5
27.5°	19691.1	19961.0	20783.1	19320.8	16402.5	14861.7	14745.6	15432.8	17943.2	20365.8	19917.0
30°	21109.5	21357.4	21916.0	20218.3	16826.1	15050.0	14905.6	15680.7	18206.8	21134.6	21479.8
32.5°	22223.5	22480.8	22785.2	20776.9	17384.7	15392.0	15125.3	16132.6	18552.0	21721.4	22637.7
35°	23384.6	23688.9	23667.0	21272.7	17905.6	15787.4	15526.9	16785.3	19094.9	22232.9	24106.3
37.5°	24856.3	24978.7	24821.8	21718.3	18530.0	16499.7	16355.4	17754.9	19866.8	22851.1	25822.8
40°	26350.0	26594.8	25788.3	22258.0	19289.4	17839.7	17824.0	19189.0	20783.1	23576.0	27486.0
42.5°	27630.3	27837.4	26692.0	22728.7	20208.9	19474.6	19593.8	21112.6	21985.0	24417.0	28822.7
45°	28593.7	28778.8	27526.7	23183.7	21420.2	21363.7	22066.6	23174.3	23500.7	25173.2	29607.3
47.5°	29412.7	29591.6	28107.3	23874.1	22917.0	23619.9	24843.7	25323.9	24796.7	25606.3	30485.9
50°	30103.1	30156.4	28505.8	24696.2	24774.7	26384.5	27570.7	27881.3	26077.0	26227.6	31248.4
52.5°	30821.7	30752.6	29193.0	25731.8	26783.0	29007.9	29870.8	30194.1	27303.9	26993.3	32359.3
55°	32431.5	32497.4	30733.8	27037.2	28813.3	31584.2	32720.2	32409.5	28662.7	28402.3	33771.4
57.5°	34377.1	34320.6	32902.2	29080.1	30881.3	33981.7	34828.9	34330.0	30476.5	30338.4	35202.4
60°	35133.3	35208.6	34716.0	31276.7	32921.0	36081.0	36947.1	36172.0	32651.1	32588.4	36281.8
62.5°	34373.9	34797.5	35130.2	33231.7	34659.5	37624.9	38484.7	37599.8	34919.9	35374.9	37038.1
65°	32861.4	32952.4	34085.2	34888.5	35497.3	37879.1	38327.8	37857.1	36815.3	37913.6	37003.6
67.5°	30897.0	30975.4	32302.8	35431.4	34417.8	34992.1	35305.9	35167.8	36228.5	38782.8	35299.6
70°	29026.7	28964.0	30366.7	34047.6	29961.9	29089.5	29349.9	28916.9	31261.0	36658.4	31957.6
72.5°	25386.6	25612.6	27118.8	30200.3	23723.5	22305.1	22873.1	21752.8	24043.5	31395.9	25938.9
75°	19885.7	19939.0	22452.6	25345.8	17896.1	15658.7	16427.6	15960.0	18417.1	26189.9	17911.8
77.5°	13769.6	13650.4	16352.2	19358.5	12762.3	11463.2	11475.8	11253.0	12859.6	19283.2	12169.3
80°	8745.7	8563.7	10236.2	11959.0	8770.8	9382.7	9075.2	9065.8	8372.2	11896.2	7358.7
82.5°	4725.9	4926.7	6467.5	7496.7	6291.7	7252.0	6646.3	6451.8	5745.7	7446.5	4707.0
85°	2152.7	2341.0	3448.7	5099.3	4779.2	4832.6	3229.0	3809.6	4754.1	6047.0	2513.6
87.5°	210.2	269.9	712.3	2406.9	1631.8	1286.6	480.1	925.7	1195.6	2149.5	200.8
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°	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5
2.5°	16248.7	16085.5	15530.1	15071.9	14585.5	14215.2	13732.0	13408.8	13186.0	12850.2	12809.4
5°	15501.8	15103.3	14136.8	13151.5	12301.1	11660.9	11011.3	10415.1	10063.6	9953.8	9812.6
7.5°	14243.5	13572.0	12329.3	11199.6	10223.7	9269.7	8535.4	8014.5	7666.2	7462.2	7217.5
10°	13207.9	12429.7	10917.2	9533.3	8730.0	8136.9	7490.5	6931.9	6502.0	6134.8	5934.0
12.5°	12511.3	11632.7	9931.8	8808.4	8187.1	7556.4	6800.1	6172.5	5538.6	5121.3	4942.4
15°	12301.1	11372.2	9627.5	8447.6	7556.4	6731.1	5883.8	5064.8	4437.2	4041.8	3910.0
17.5°	12815.7	11692.3	9624.3	7967.4	6815.8	5830.4	4744.7	3975.9	3332.6	3037.6	2943.5
20°	13775.9	12307.3	9652.6	7493.6	6012.5	4625.4	3451.8	2821.1	2513.6	2388.0	2341.0
22.5°	15115.9	13245.6	9737.3	7026.0	5133.8	3552.2	2585.7	2265.7	2155.8	2133.9	2124.4
25°	16766.5	14406.7	10022.8	6605.5	4393.2	2711.3	2162.1	2017.7	1955.0	1933.0	1929.9
27.5°	18285.3	15906.6	10368.0	6244.7	3677.8	2337.8	1955.0	1832.6	1769.8	1766.7	1773.0
30°	19656.6	17161.9	10656.7	5839.9	3134.9	2077.4	1820.1	1697.7	1638.0	1634.9	1653.7
32.5°	20842.8	18194.3	10870.1	5441.3	2833.6	1917.3	1697.7	1565.9	1515.7	1506.3	1515.7
35°	22110.5	19223.5	10772.8	5130.7	2661.0	1785.5	1606.7	1478.0	1418.4	1390.1	1390.1
37.5°	23557.1	20284.2	10606.5	4873.4	2582.6	1675.7	1528.2	1402.7	1343.1	1314.8	1311.7
40°	25135.6	21344.8	10377.4	4644.3	2504.1	1609.8	1474.9	1343.1	1270.9	1242.7	1236.4
42.5°	26528.9	22251.7	10189.2	4493.7	2375.5	1622.4	1427.8	1299.1	1208.1	1170.5	1167.3
45°	27740.1	23164.9	10154.6	4405.8	2268.8	1603.5	1415.2	1264.6	1157.9	1117.1	1110.9
47.5°	28687.8	24115.7	10352.3	4355.6	2152.7	1503.1	1496.8	1242.7	1114.0	1070.1	1063.8
50°	29842.6	25465.1	10804.2	4252.0	2046.0	1409.0	1581.6	1239.5	1079.5	1023.0	1007.3
52.5°	31380.2	27222.4	11416.1	4066.9	1892.2	1321.1	1509.4	1239.5	1038.7	982.2	963.4
55°	33705.5	29462.9	12015.5	3806.4	1675.7	1205.0	1361.9	1201.9	979.1	928.9	916.3
57.5°	35246.3	31101.0	12398.3	3445.6	1405.8	1120.3	1173.6	1142.2	919.4	866.1	866.1
60°	35324.7	31540.3	12216.3	2990.5	1236.4	1041.8	1019.9	1151.7	866.1	809.6	803.3
62.5°	34421.0	30463.9	11268.6	2582.6	1145.4	957.1	922.6	1010.4	812.7	756.3	746.8
65°	33008.9	27718.2	9624.3	2388.0	1095.2	881.8	831.6	828.4	756.3	702.9	690.4
67.5°	30413.7	24222.4	7907.8	2275.1	1070.1	797.1	750.0	734.3	690.4	646.4	640.2
70°	26588.5	20287.3	6341.9	2228.0	1057.5	709.2	671.5	652.7	615.1	580.5	577.4
72.5°	20685.9	16455.8	5234.2	2196.6	1051.2	627.6	586.8	561.7	539.7	508.4	508.4
75°	14858.5	12106.5	3994.7	1980.1	972.8	539.7	495.8	480.1	448.7	423.6	429.9
77.5°	9367.0	8152.6	2629.7	1456.0	753.1	433.0	395.4	386.0	360.9	326.4	348.3
80°	6326.3	5733.2	1534.5	916.3	473.8	316.9	304.4	301.3	273.0	235.4	238.5
82.5°	4305.4	4223.8	797.1	520.9	273.0	185.1	178.9	185.1	153.8	125.5	125.5
85°	1682.0	2297.0	376.6	204.0	87.9	28.2	40.8	43.9	25.1	12.6	15.7
87.5°	31.4	235.4	9.4	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°	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5
2.5°	12746.7	12718.4	12765.5	12564.6	12605.4	12680.8	12718.4	12740.4	13051.0	12978.9	13176.6
5°	9944.4	9916.2	10098.2	10123.3	10217.4	10198.6	10289.6	10311.5	10424.5	10465.3	10741.5
7.5°	7233.1	7355.5	7562.6	7669.3	7829.4	7879.6	7832.5	7948.6	7713.3	7882.7	7932.9
10°	5811.6	5664.1	5576.3	5821.0	5852.4	6084.6	5990.5	5915.2	6053.2	6059.5	6191.3
12.5°	4838.8	4521.9	4311.6	4380.7	4456.0	4556.4	4572.1	4722.7	4823.1	4917.3	4995.7
15°	3793.9	3684.0	3492.6	3398.5	3505.2	3546.0	3643.2	3768.8	3875.5	3903.7	4010.4
17.5°	2912.1	2930.9	2899.5	2843.0	2908.9	2940.3	2946.6	2949.7	2978.0	2959.2	3116.1
20°	2344.1	2410.0	2488.5	2501.0	2523.0	2538.7	2510.4	2403.7	2406.9	2472.8	2523.0
22.5°	2121.3	2133.9	2221.7	2250.0	2319.0	2290.8	2209.2	2159.0	2152.7	2168.4	2193.5
25°	1945.6	1964.4	2027.2	2071.1	2124.4	2074.2	2014.6	1967.5	1961.3	1977.0	2002.1
27.5°	1788.7	1816.9	1873.4	1917.3	1967.5	1920.5	1864.0	1823.2	1820.1	1816.9	1832.6
30°	1663.2	1694.5	1735.3	1785.5	1820.1	1779.3	1725.9	1703.9	1700.8	1694.5	1700.8
32.5°	1537.6	1587.8	1628.6	1653.7	1688.3	1656.9	1616.1	1603.5	1581.6	1562.7	1553.3
35°	1396.4	1449.8	1512.5	1543.9	1578.4	1547.0	1518.8	1465.5	1427.8	1424.7	1430.9
37.5°	1314.8	1336.8	1387.0	1440.4	1474.9	1459.2	1405.8	1352.5	1343.1	1343.1	1349.4
40°	1242.7	1252.1	1274.0	1343.1	1405.8	1358.8	1292.9	1277.2	1277.2	1274.0	1277.2
42.5°	1170.5	1179.9	1179.9	1233.2	1333.7	1258.3	1208.1	1208.1	1208.1	1211.3	1220.7
45°	1104.6	1107.7	1104.6	1142.2	1236.4	1173.6	1139.1	1148.5	1154.8	1161.1	1167.3
47.5°	1048.1	1051.2	1048.1	1079.5	1126.6	1101.4	1082.6	1095.2	1107.7	1117.1	1123.4
50°	997.9	994.8	1001.0	1019.9	1041.8	1048.1	1035.5	1054.4	1060.7	1073.2	1088.9
52.5°	954.0	950.8	957.1	966.5	997.9	997.9	997.9	1013.6	1026.1	1038.7	1060.7
55°	903.8	906.9	916.3	928.9	969.6	963.4	966.5	979.1	991.6	1010.4	1023.0
57.5°	856.7	863.0	875.5	894.3	935.1	932.0	935.1	941.4	957.1	966.5	979.1
60°	803.3	815.9	831.6	844.1	884.9	881.8	897.5	910.0	919.4	919.4	925.7
62.5°	750.0	768.8	784.5	793.9	837.9	841.0	863.0	872.4	878.6	872.4	881.8
65°	696.6	724.9	731.2	743.7	787.6	790.8	815.9	837.9	831.6	825.3	841.0
67.5°	643.3	677.8	674.7	690.4	734.3	740.6	762.5	800.2	787.6	781.4	793.9
70°	583.7	608.8	611.9	621.3	681.0	671.5	706.1	740.6	731.2	734.3	734.3
72.5°	517.8	539.7	539.7	558.6	621.3	605.6	633.9	671.5	671.5	668.4	668.4
75°	439.3	451.9	464.4	492.7	558.6	539.7	558.6	593.1	599.4	593.1	593.1
77.5°	354.6	373.4	379.7	417.4	464.4	461.3	480.1	495.8	508.4	502.1	502.1
80°	251.0	269.9	295.0	335.8	364.0	373.4	382.8	395.4	401.7	401.7	407.9
82.5°	141.2	169.5	191.4	232.2	244.8	291.8	288.7	298.1	288.7	254.2	282.4
85°	31.4	59.6	84.7	106.7	122.4	169.5	178.9	200.8	166.3	153.8	153.8
87.5°	0.0	0.0	0.0	0.0	0.0	25.1	50.2	69.0	59.6	50.2	50.2
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°	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5	15288.5
2.5°	13342.9	13615.9	13945.4	14513.4	14911.9	15341.8	15774.8	16236.1	16358.5	16484.0
5°	10816.8	11353.4	11645.2	12407.7	13207.9	14224.7	15056.2	15966.3	16346.0	16433.8
7.5°	8193.4	8557.4	9323.1	10095.0	11086.6	12153.6	13427.6	14846.0	15288.5	15473.6
10°	6495.7	6991.5	7663.1	8491.5	9360.7	10509.2	11946.5	13603.3	14230.9	14334.5
12.5°	5529.2	6081.5	6812.6	7688.2	8510.3	9376.4	10826.2	12536.4	13207.9	13430.7
15°	4421.5	5089.9	5934.0	6856.6	7750.9	8698.6	10167.2	12097.1	12872.2	13132.6
17.5°	3473.8	4013.5	4926.7	5927.7	6988.4	8187.1	10029.1	12307.3	13261.3	13502.9
20°	2657.9	3043.9	3812.7	4870.2	6112.9	7681.9	10063.6	13101.2	14243.5	14573.0
22.5°	2297.0	2494.7	2962.3	3969.6	5359.7	7242.6	10204.9	14190.1	15567.7	16116.9
25°	2080.5	2184.1	2447.7	3106.6	4641.1	6815.8	10528.1	15655.6	17419.2	17783.2
27.5°	1895.4	1970.7	2133.9	2607.7	3988.4	6420.4	10904.6	17281.1	19148.2	19691.1
30°	1719.6	1820.1	1973.8	2315.9	3571.1	6059.5	11378.5	18599.1	20604.3	21109.5
32.5°	1584.7	1685.1	1826.3	2111.9	3216.5	5679.8	11660.9	19757.0	21793.6	22223.5
35°	1474.9	1559.6	1707.1	1948.7	2946.6	5391.1	11604.4	20676.4	22945.2	23384.6
37.5°	1396.4	1468.6	1616.1	1794.9	2742.6	5089.9	11576.2	21890.9	24347.9	24856.3
40°	1324.2	1399.6	1534.5	1694.5	2538.7	4735.3	11591.9	23095.9	25841.6	26350.0
42.5°	1267.8	1352.5	1462.3	1666.3	2328.4	4449.7	11591.9	24144.0	27140.8	27630.3
45°	1220.7	1311.7	1418.4	1663.2	2162.1	4233.2	11513.4	25044.6	28176.3	28593.7
47.5°	1179.9	1280.3	1434.1	1606.7	2121.3	4076.3	11444.4	25766.3	29020.4	29412.7
50°	1151.7	1270.9	1525.1	1540.8	2133.9	4029.2	11777.0	26676.3	29764.2	30103.1
52.5°	1129.7	1274.0	1521.9	1443.5	2111.9	4060.6	12470.5	28097.9	30796.6	30821.7
55°	1085.8	1270.9	1443.5	1333.7	2020.9	4113.9	13361.7	30162.7	32412.6	32431.5
57.5°	1041.8	1236.4	1339.9	1239.5	1835.7	4113.9	14434.9	32117.7	34361.4	34377.1
60°	997.9	1286.6	1176.8	1157.9	1594.1	4038.6	15567.7	32977.5	34973.3	35133.3
62.5°	954.0	1296.0	1051.2	1085.8	1418.4	3856.6	16411.9	32026.7	34144.8	34373.9
65°	903.8	1045.0	969.6	1010.4	1327.4	3552.2	16145.1	30285.1	32588.4	32861.4
67.5°	844.1	884.9	881.8	932.0	1296.0	3103.5	14739.3	28082.2	30912.7	30897.0
70°	772.0	793.9	803.3	856.7	1236.4	2755.2	12282.2	25223.4	28675.3	29026.7
72.5°	696.6	715.5	724.9	772.0	1176.8	2557.5	9533.3	21285.2	24837.5	25386.6
75°	615.1	627.6	640.2	681.0	1114.0	2265.7	6790.7	16248.7	19022.7	19885.7
77.5°	530.3	530.3	546.0	586.8	938.3	1870.3	4556.4	11397.3	12887.9	13769.6
80°	429.9	433.0	426.8	470.7	690.4	1280.3	2588.9	7612.8	8576.2	8745.7
82.5°	329.5	320.1	323.2	345.2	514.6	872.4	1380.7	4729.0	4820.0	4725.9
85°	207.1	207.1	200.8	225.9	329.5	455.0	753.1	2896.4	2262.5	2152.7
87.5°	84.7	69.0	78.5	91.0	156.9	185.1	295.0	596.2	229.1	210.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)