

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: P458149

Luminaire Tested: **GALN-SA9C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458149
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-SA9C-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 54938 lumens
Efficiency: N/A
Efficacy: 114.2 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

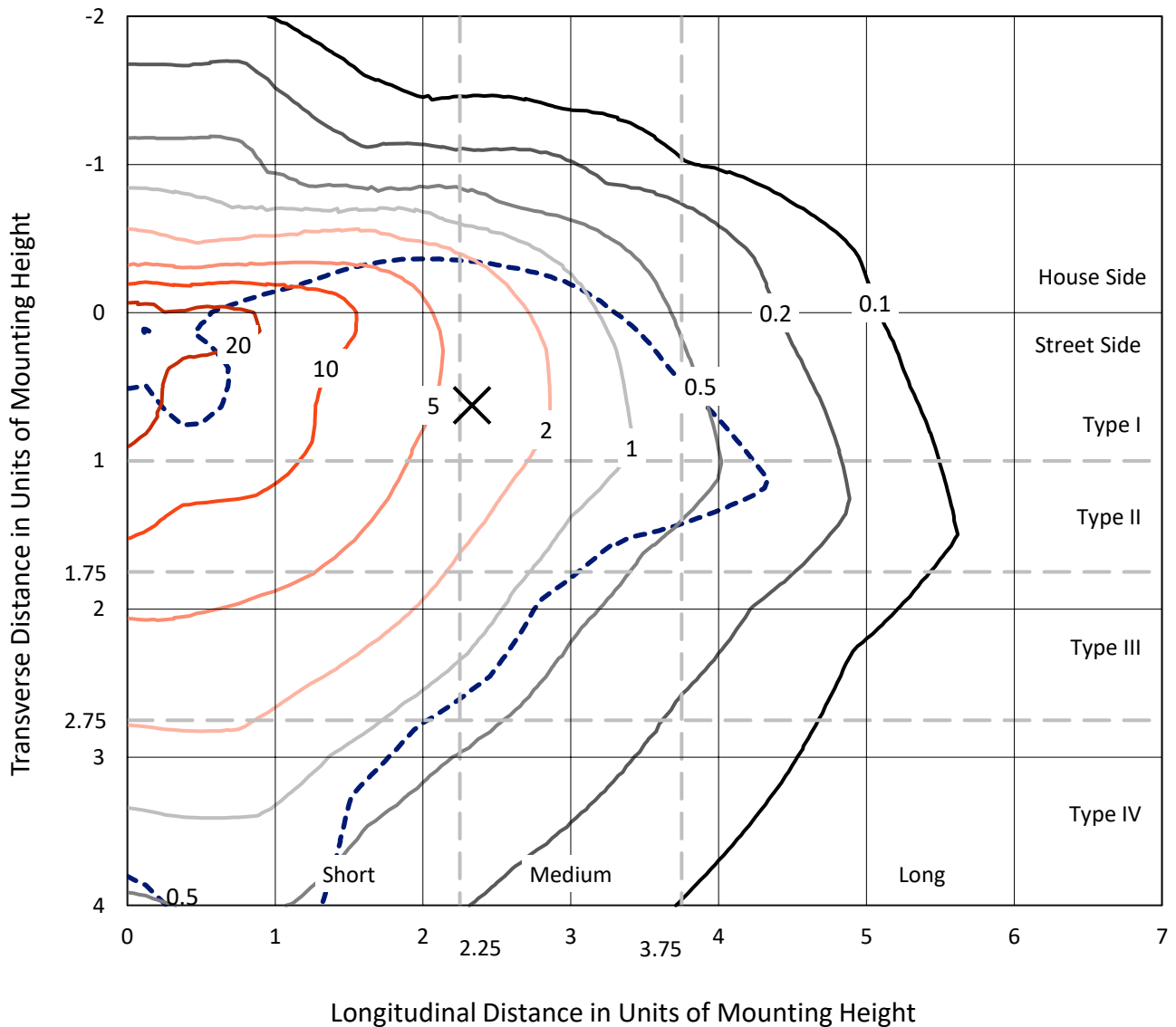
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

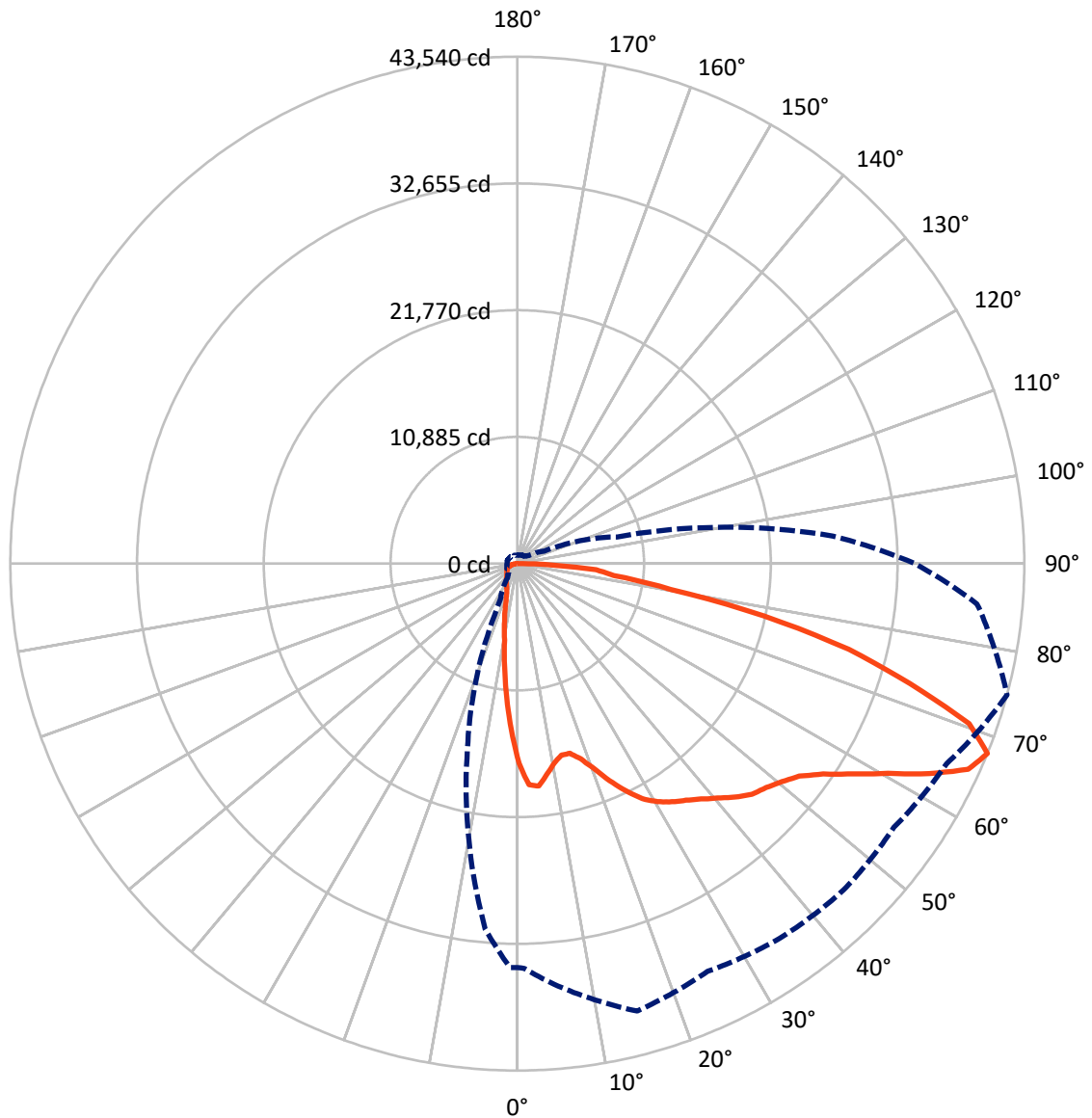
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.9 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	9285.7	0.0	9285.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	45652.3	0.0	45652.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	54938.0	0.0	54938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1301.8	2.4
10°-20°	2715.0	4.9
20°-30°	3907.0	7.1
30°-40°	5627.1	10.2
40°-50°	7904.5	14.4
50°-60°	11024.1	20.1
60°-70°	13106.9	23.9
70°-80°	7719.2	14.1
80°-90°	1632.3	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°	54938.0	100.0
0°-180°	54938.0	100.0

Coefficient of Utilization



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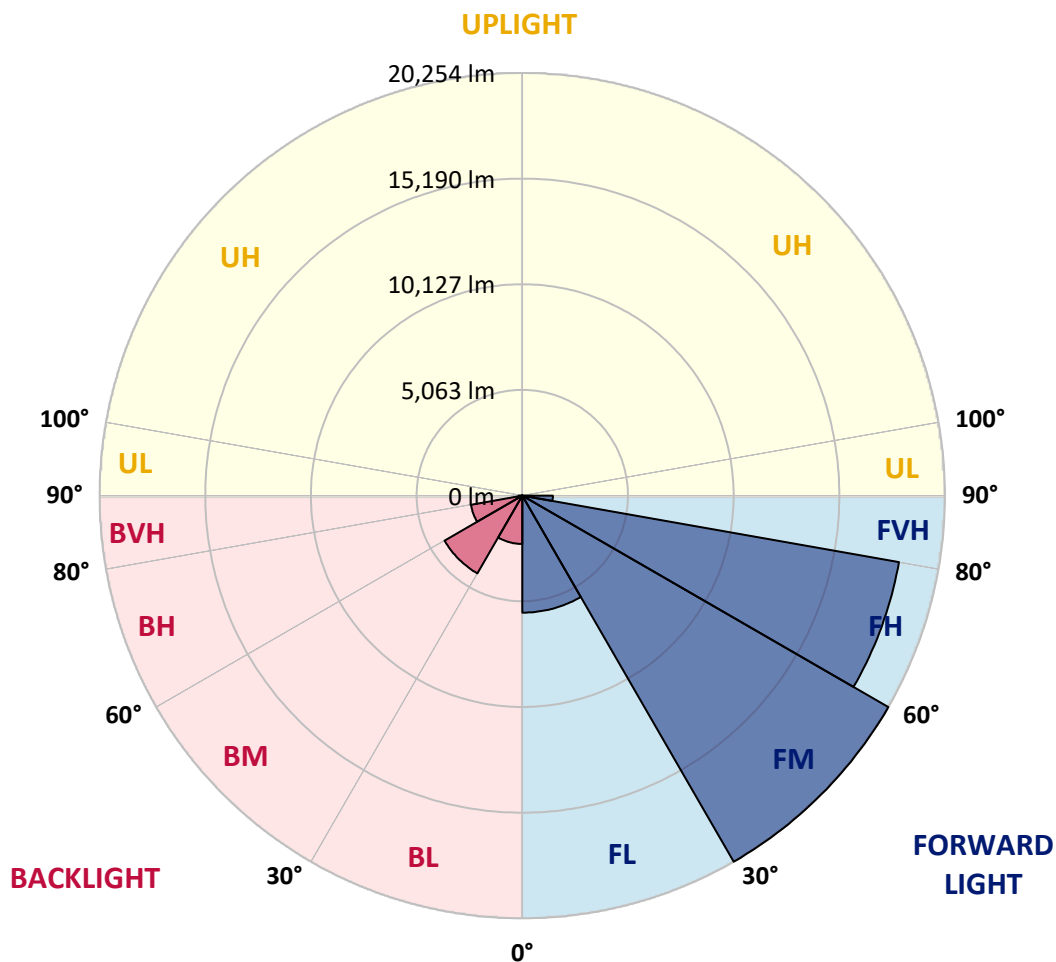
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5607.7	10.2			
FM	(30°-60°)	20253.6	36.9			
FH	(60°-80°)	18327.5	33.4			G5
FVH	(80°-90°)	1463.5	2.7			G5
BL	(0°-30°)	2316.2	4.2	B3/2500		
BM	(30°-60°)	4302.1	7.8	B3/5000		
BH	(60°-80°)	2498.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	168.8	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°	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9
2.5°	18506.2	18530.8	18689.4	19150.9	19468.0	19584.2	19665.2	19513.8	19365.8	19006.4	18463.9
5°	18449.8	18594.3	19006.4	20042.2	20859.5	21211.8	21317.5	20863.1	20112.7	19189.6	18079.9
7.5°	17371.8	17565.6	18199.7	19936.5	21377.4	22201.8	22092.6	21271.7	19918.9	18273.7	16723.6
10°	16092.9	16307.8	17072.3	19172.0	21028.6	22163.0	22163.0	21162.5	19365.8	17410.5	15624.4
12.5°	15078.3	15303.8	16177.5	18386.4	20302.9	21377.4	21557.1	20697.5	18967.7	16864.5	14902.2
15°	14743.6	14962.1	15902.7	17910.8	19534.9	20190.2	20250.1	19968.2	18773.9	16903.2	14870.5
17.5°	15159.4	15441.2	16392.4	18051.7	18830.3	18869.1	18914.8	19136.8	18795.1	17611.3	15511.7
20°	16360.7	16663.7	17657.1	18506.2	18213.8	17812.2	17836.8	18407.5	19045.2	18781.0	17044.2
22.5°	18094.0	18358.2	19376.4	19305.9	17953.1	17125.2	16952.6	17748.7	19415.1	20239.5	18675.3
25°	19964.7	20274.7	21444.3	20493.1	18027.1	16716.5	16607.3	17361.2	19799.1	21602.9	20560.1
27.5°	22106.7	22409.6	23332.7	21691.0	18414.6	16684.8	16554.5	17326.0	20144.4	22864.1	22360.3
30°	23699.0	23977.4	24604.5	22698.5	18890.2	16896.2	16734.1	17604.3	20440.3	23727.2	24114.8
32.5°	24949.7	25238.6	25580.3	23325.6	19517.3	17280.2	16980.7	18111.6	20827.8	24386.0	25414.7
35°	26253.2	26594.9	26570.3	23882.2	20102.1	17724.1	17431.7	18844.4	21437.3	24960.3	27063.5
37.5°	27905.5	28042.9	27866.7	24382.5	20803.2	18523.8	18361.7	19933.0	22304.0	25654.3	28990.6
40°	29582.4	29857.2	28951.8	24988.5	21655.7	20028.1	20010.5	21543.0	23332.7	26468.1	30857.7
42.5°	31019.8	31252.3	29966.4	25516.9	22688.0	21863.6	21997.5	23702.6	24682.0	27412.3	32358.5
45°	32101.3	32309.2	30903.5	26027.7	24047.8	23984.4	24773.6	26017.2	26383.6	28261.3	33239.3
47.5°	33020.8	33221.6	31555.3	26802.8	25728.3	26517.4	27891.4	28430.4	27838.5	28747.5	34225.7
50°	33795.9	33855.8	32002.7	27725.8	27813.9	29621.2	30952.9	31301.6	29275.9	29445.0	35081.8
52.5°	34602.7	34525.1	32774.2	28888.4	30068.6	32566.4	33535.2	33898.1	30653.4	30304.6	36328.9
55°	36409.9	36483.9	34504.0	30353.9	32348.0	35458.7	36734.1	36385.3	32178.8	31886.4	37914.3
57.5°	38594.2	38530.8	36938.4	32647.4	34669.6	38150.3	39101.5	38541.3	34215.1	34060.1	39520.7
60°	39443.2	39527.8	38974.7	35113.5	36959.5	40507.2	41479.5	40609.3	36656.5	36586.1	40732.6
62.5°	38590.7	39066.3	39439.7	37308.3	38911.3	42240.5	43205.8	42212.3	39203.7	39714.5	41581.7
65°	36892.6	36994.8	38266.5	39168.4	39851.9	42525.8	43029.6	42501.2	41331.5	42564.6	41542.9
67.5°	34687.2	34775.3	36265.5	39777.9	38640.0	39284.7	39637.0	39482.0	40672.7	43540.4	39629.9
70°	32587.5	32517.1	34091.8	38224.3	33637.4	32658.0	32950.4	32464.2	35095.9	41155.4	35878.0
72.5°	28500.9	28754.5	30445.5	33905.1	26633.7	25041.3	25679.0	24421.3	26993.0	35247.4	29120.9
75°	22325.1	22385.0	25206.9	28455.1	20091.5	17579.6	18442.8	17917.8	20676.3	29402.7	20109.1
77.5°	15458.8	15324.9	18358.2	21733.2	14327.9	12869.4	12883.5	12633.4	14437.1	21648.7	13662.1
80°	9818.5	9614.2	11491.9	13426.1	9846.7	10533.7	10188.4	10177.9	9399.3	13355.6	8261.4
82.5°	5305.6	5531.1	7260.9	8416.4	7063.6	8141.6	7461.7	7243.2	6450.6	8360.0	5284.5
85°	2416.8	2628.1	3871.7	5724.8	5365.5	5425.4	3625.1	4276.9	5337.3	6788.8	2821.9
87.5°	236.0	303.0	799.7	2702.1	1831.9	1444.4	539.0	1039.3	1342.3	2413.2	225.5
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°	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9
2.5°	18242.0	18058.8	17435.2	16920.8	16374.8	15959.1	15416.5	15053.7	14803.5	14426.6	14380.8
5°	17403.5	16956.1	15871.0	14764.8	13810.1	13091.4	12362.1	11692.8	11298.2	11174.9	11016.3
7.5°	15990.8	15236.9	13841.8	12573.5	11477.9	10406.9	9582.5	8997.7	8606.6	8377.6	8102.8
10°	14828.2	13954.5	12256.4	10702.8	9800.9	9135.1	8409.3	7782.3	7299.6	6887.4	6661.9
12.5°	14046.1	13059.7	11150.2	9889.0	9191.4	8483.3	7634.3	6929.7	6218.0	5749.5	5548.7
15°	13810.1	12767.3	10808.5	9483.8	8483.3	7556.8	6605.6	5686.1	4981.5	4537.6	4389.6
17.5°	14387.8	13126.6	10805.0	8944.8	7651.9	6545.7	5326.7	4463.6	3741.4	3410.2	3304.5
20°	15465.9	13817.1	10836.7	8412.9	6750.0	5192.9	3875.3	3167.2	2821.9	2681.0	2628.1
22.5°	16970.2	14870.5	10931.8	7887.9	5763.6	3988.0	2902.9	2543.6	2420.3	2395.6	2385.1
25°	18823.3	16174.0	11252.4	7415.9	4932.2	3043.8	2427.3	2265.3	2194.8	2170.2	2166.6
27.5°	20528.4	17858.0	11639.9	7010.7	4128.9	2624.6	2194.8	2057.4	1987.0	1983.4	1990.5
30°	22067.9	19267.1	11964.0	6556.3	3519.5	2332.2	2043.3	1905.9	1839.0	1835.5	1856.6
32.5°	23399.6	20426.2	12203.6	6108.8	3181.2	2152.5	1905.9	1758.0	1701.6	1691.0	1701.6
35°	24822.9	21581.7	12094.4	5760.1	2987.5	2004.6	1803.8	1659.3	1592.4	1560.7	1560.7
37.5°	26447.0	22772.5	11907.7	5471.2	2899.4	1881.3	1715.7	1574.8	1507.8	1476.1	1472.6
40°	28219.0	23963.3	11650.5	5214.0	2811.3	1807.3	1655.8	1507.8	1426.8	1395.1	1388.1
42.5°	29783.2	24981.4	11439.1	5044.9	2666.9	1821.4	1603.0	1458.5	1356.3	1314.1	1310.5
45°	31143.1	26006.6	11400.3	4946.3	2547.1	1800.2	1588.9	1419.8	1300.0	1254.2	1247.1
47.5°	32207.0	27074.1	11622.3	4889.9	2416.8	1687.5	1680.5	1395.1	1250.7	1201.3	1194.3
50°	33503.5	28588.9	12129.6	4773.6	2297.0	1581.8	1775.6	1391.6	1211.9	1148.5	1130.9
52.5°	35229.7	30561.8	12816.6	4565.8	2124.4	1483.2	1694.6	1391.6	1166.1	1102.7	1081.6
55°	37840.3	33077.2	13489.5	4273.4	1881.3	1352.8	1529.0	1349.3	1099.2	1042.8	1028.7
57.5°	39570.0	34916.2	13919.3	3868.2	1578.3	1257.7	1317.6	1282.4	1032.2	972.3	972.3
60°	39658.1	35409.4	13714.9	3357.4	1388.1	1169.6	1145.0	1292.9	972.3	908.9	901.9
62.5°	38643.5	34201.0	12651.0	2899.4	1285.9	1074.5	1035.8	1134.4	912.5	849.0	838.5
65°	37058.2	31118.4	10805.0	2681.0	1229.5	990.0	933.6	930.1	849.0	789.1	775.1
67.5°	34144.7	27193.8	8877.9	2554.2	1201.3	894.8	842.0	824.4	775.1	725.7	718.7
70°	29850.2	22776.0	7119.9	2501.3	1187.2	796.2	753.9	732.8	690.5	651.8	648.2
72.5°	23223.4	18474.5	5876.3	2466.1	1180.2	704.6	658.8	630.6	606.0	570.7	570.7
75°	16681.3	13591.6	4484.7	2223.0	1092.1	606.0	556.6	539.0	503.8	475.6	482.6
77.5°	10516.1	9152.7	2952.3	1634.7	845.5	486.2	443.9	433.3	405.1	366.4	391.1
80°	7102.3	6436.5	1722.7	1028.7	532.0	355.8	341.7	338.2	306.5	264.2	267.7
82.5°	4833.5	4741.9	894.8	584.8	306.5	207.9	200.8	207.9	172.6	140.9	140.9
85°	1888.3	2578.8	422.8	229.0	98.6	31.7	45.8	49.3	28.2	14.1	17.6
87.5°	35.2	264.2	10.6	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°	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9
2.5°	14310.3	14278.6	14331.5	14106.0	14151.8	14236.3	14278.6	14303.3	14652.1	14571.0	14793.0
5°	11164.3	11132.6	11336.9	11365.1	11470.8	11449.7	11551.8	11576.5	11703.3	11749.1	12059.1
7.5°	8120.5	8257.9	8490.4	8610.1	8789.8	8846.2	8793.3	8923.7	8659.5	8849.7	8906.1
10°	6524.5	6359.0	6260.3	6535.1	6570.3	6831.0	6725.4	6640.8	6795.8	6802.9	6950.8
12.5°	5432.4	5076.6	4840.6	4918.1	5002.6	5115.4	5133.0	5302.1	5414.8	5520.5	5608.6
15°	4259.3	4136.0	3921.1	3815.4	3935.2	3981.0	4090.2	4231.1	4350.9	4382.6	4502.4
17.5°	3269.3	3290.5	3255.2	3191.8	3265.8	3301.0	3308.1	3311.6	3343.3	3322.2	3498.3
20°	2631.7	2705.6	2793.7	2807.8	2832.5	2850.1	2818.4	2698.6	2702.1	2776.1	2832.5
22.5°	2381.5	2395.6	2494.3	2526.0	2603.5	2571.8	2480.2	2423.8	2416.8	2434.4	2462.6
25°	2184.2	2205.4	2275.8	2325.2	2385.1	2328.7	2261.7	2208.9	2201.9	2219.5	2247.7
27.5°	2008.1	2039.8	2103.2	2152.5	2208.9	2156.1	2092.6	2046.8	2043.3	2039.8	2057.4
30°	1867.2	1902.4	1948.2	2004.6	2043.3	1997.5	1937.6	1913.0	1909.5	1902.4	1909.5
32.5°	1726.3	1782.6	1828.4	1856.6	1895.4	1860.1	1814.3	1800.2	1775.6	1754.4	1743.9
35°	1567.7	1627.6	1698.1	1733.3	1772.1	1736.8	1705.1	1645.2	1603.0	1599.4	1606.5
37.5°	1476.1	1500.8	1557.2	1617.0	1655.8	1638.2	1578.3	1518.4	1507.8	1507.8	1514.9
40°	1395.1	1405.7	1430.3	1507.8	1578.3	1525.4	1451.5	1433.9	1433.9	1430.3	1433.9
42.5°	1314.1	1324.6	1324.6	1384.5	1497.3	1412.7	1356.3	1356.3	1356.3	1359.9	1370.4
45°	1240.1	1243.6	1240.1	1282.4	1388.1	1317.6	1278.8	1289.4	1296.5	1303.5	1310.5
47.5°	1176.7	1180.2	1176.7	1211.9	1264.7	1236.6	1215.4	1229.5	1243.6	1254.2	1261.2
50°	1120.3	1116.8	1123.8	1145.0	1169.6	1176.7	1162.6	1183.7	1190.8	1204.9	1222.5
52.5°	1071.0	1067.5	1074.5	1085.1	1120.3	1120.3	1120.3	1137.9	1152.0	1166.1	1190.8
55°	1014.6	1018.1	1028.7	1042.8	1088.6	1081.6	1085.1	1099.2	1113.3	1134.4	1148.5
57.5°	961.8	968.8	982.9	1004.0	1049.8	1046.3	1049.8	1056.9	1074.5	1085.1	1099.2
60°	901.9	916.0	933.6	947.7	993.5	990.0	1007.6	1021.7	1032.2	1032.2	1039.3
62.5°	842.0	863.1	880.7	891.3	940.6	944.2	968.8	979.4	986.4	979.4	990.0
65°	782.1	813.8	820.9	834.9	884.3	887.8	916.0	940.6	933.6	926.5	944.2
67.5°	722.2	761.0	757.4	775.1	824.4	831.4	856.1	898.4	884.3	877.2	891.3
70°	655.3	683.5	687.0	697.5	764.5	753.9	792.7	831.4	820.9	824.4	824.4
72.5°	581.3	606.0	606.0	627.1	697.5	679.9	711.6	753.9	753.9	750.4	750.4
75°	493.2	507.3	521.4	553.1	627.1	606.0	627.1	665.8	672.9	665.8	665.8
77.5°	398.1	419.2	426.3	468.6	521.4	517.9	539.0	556.6	570.7	563.7	563.7
80°	281.8	303.0	331.2	377.0	408.7	419.2	429.8	443.9	450.9	450.9	458.0
82.5°	158.5	190.2	214.9	260.7	274.8	327.6	324.1	334.7	324.1	285.4	317.1
85°	35.2	66.9	95.1	119.8	137.4	190.2	200.8	225.5	186.7	172.6	172.6
87.5°	0.0	0.0	0.0	0.0	0.0	28.2	56.4	77.5	66.9	56.4	56.4
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°	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9	17163.9
2.5°	14979.7	15286.2	15656.1	16293.8	16741.2	17223.8	17710.0	18227.9	18365.3	18506.2
5°	12143.7	12746.1	13073.8	13929.8	14828.2	15969.6	16903.2	17924.9	18351.2	18449.8
7.5°	9198.5	9607.2	10466.8	11333.4	12446.7	13644.5	15074.8	16667.2	17163.9	17371.8
10°	7292.6	7849.2	8603.1	9533.2	10509.0	11798.4	13412.0	15272.1	15976.7	16092.9
12.5°	6207.5	6827.5	7648.4	8631.3	9554.3	10526.6	12154.3	14074.3	14828.2	15078.3
15°	4963.9	5714.3	6661.9	7697.7	8701.7	9765.7	11414.4	13581.1	14451.2	14743.6
17.5°	3899.9	4505.9	5531.1	6654.9	7845.7	9191.4	11259.4	13817.1	14888.1	15159.4
20°	2984.0	3417.3	4280.4	5467.7	6862.8	8624.2	11298.2	14708.4	15990.8	16360.7
22.5°	2578.8	2800.8	3325.7	4456.6	6017.2	8131.0	11456.7	15930.9	17477.5	18094.0
25°	2335.7	2452.0	2747.9	3487.7	5210.5	7651.9	11819.6	17576.1	19556.0	19964.7
27.5°	2127.9	2212.4	2395.6	2927.6	4477.7	7208.0	12242.3	19401.0	21497.2	22106.7
30°	1930.6	2043.3	2216.0	2600.0	4009.1	6802.9	12774.3	20880.7	23131.8	23699.0
32.5°	1779.1	1891.8	2050.4	2371.0	3611.0	6376.6	13091.4	22180.6	24467.1	24949.7
35°	1655.8	1750.9	1916.5	2187.8	3308.1	6052.5	13028.0	23212.9	25760.0	26253.2
37.5°	1567.7	1648.8	1814.3	2015.1	3079.1	5714.3	12996.3	24576.3	27334.8	27905.5
40°	1486.7	1571.2	1722.7	1902.4	2850.1	5316.2	13013.9	25929.1	29011.7	29582.4
42.5°	1423.3	1518.4	1641.7	1870.7	2614.0	4995.6	13013.9	27105.8	30470.2	31019.8
45°	1370.4	1472.6	1592.4	1867.2	2427.3	4752.5	12925.8	28116.9	31632.8	32101.3
47.5°	1324.6	1437.4	1610.0	1803.8	2381.5	4576.3	12848.3	28927.1	32580.5	33020.8
50°	1292.9	1426.8	1712.2	1729.8	2395.6	4523.5	13221.7	29948.8	33415.4	33795.9
52.5°	1268.3	1430.3	1708.6	1620.6	2371.0	4558.7	14000.3	31544.7	34574.5	34602.7
55°	1218.9	1426.8	1620.6	1497.3	2268.8	4618.6	15000.8	33862.8	36388.8	36409.9
57.5°	1169.6	1388.1	1504.3	1391.6	2060.9	4618.6	16205.7	36057.6	38576.6	38594.2
60°	1120.3	1444.4	1321.1	1300.0	1789.7	4534.1	17477.5	37022.9	39263.5	39443.2
62.5°	1071.0	1455.0	1180.2	1218.9	1592.4	4329.7	18425.2	35955.5	38333.5	38590.7
65°	1014.6	1173.2	1088.6	1134.4	1490.2	3988.0	18125.7	34000.2	36586.1	36892.6
67.5°	947.7	993.5	990.0	1046.3	1455.0	3484.2	16547.4	31527.1	34704.8	34687.2
70°	866.7	891.3	901.9	961.8	1388.1	3093.2	13788.9	28317.7	32192.9	32587.5
72.5°	782.1	803.2	813.8	866.7	1321.1	2871.2	10702.8	23896.3	27884.3	28500.9
75°	690.5	704.6	718.7	764.5	1250.7	2543.6	7623.7	18242.0	21356.3	22325.1
77.5°	595.4	595.4	613.0	658.8	1053.4	2099.7	5115.4	12795.4	14468.9	15458.8
80°	482.6	486.2	479.1	528.4	775.1	1437.4	2906.5	8546.7	9628.3	9818.5
82.5°	369.9	359.3	362.9	387.5	577.8	979.4	1550.1	5309.1	5411.3	5305.6
85°	232.5	232.5	225.5	253.7	369.9	510.8	845.5	3251.7	2540.1	2416.8
87.5°	95.1	77.5	88.1	102.2	176.1	207.9	331.2	669.4	257.2	236.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)