

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: P457569

Luminaire Tested: **GALN-SA8D-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457569
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-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 42788 lumens
Efficiency: N/A
Efficacy: 86.8 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

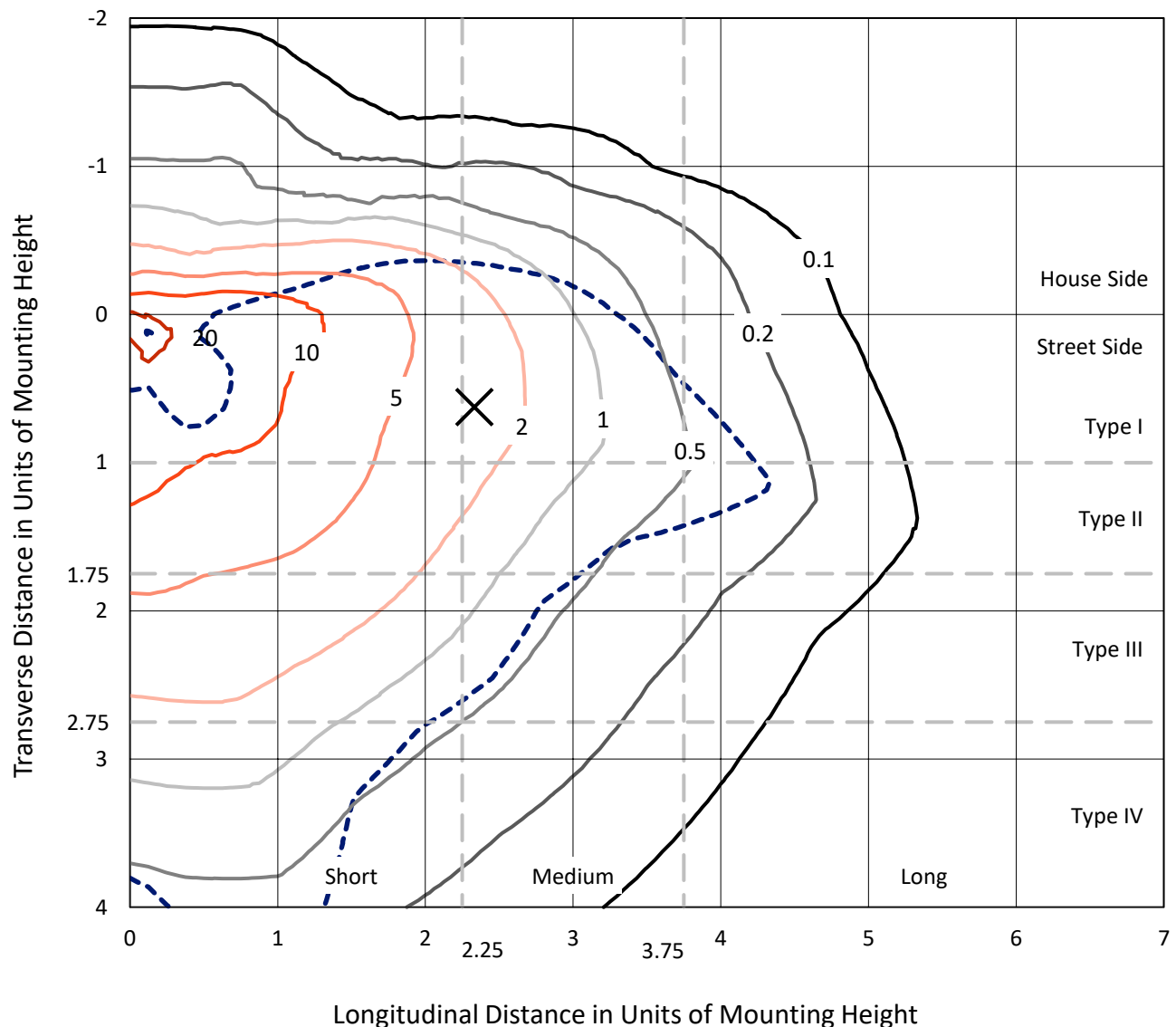


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

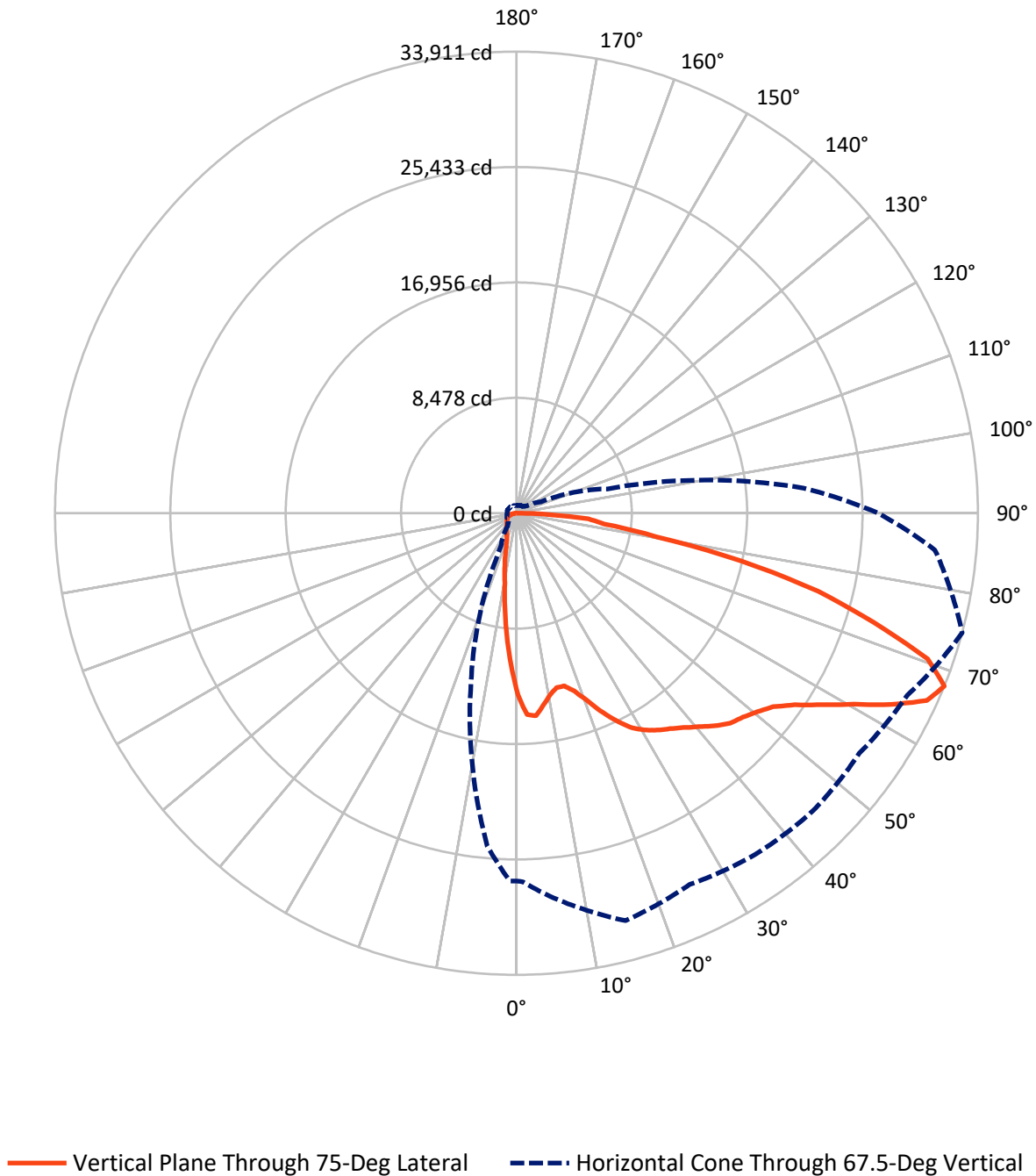


Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7232.1	0.0	7232.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	35555.9	0.0	35555.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	42788.0	0.0	42788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.9	2.4
10°-20°	2114.6	4.9
20°-30°	3042.9	7.1
30°-40°	4382.6	10.2
40°-50°	6156.4	14.4
50°-60°	8586.0	20.1
60°-70°	10208.2	23.9
70°-80°	6012.1	14.1
80°-90°	1271.3	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°	42788.0	100.0
0°-180°	42788.0	100.0

Coefficient of Utilization



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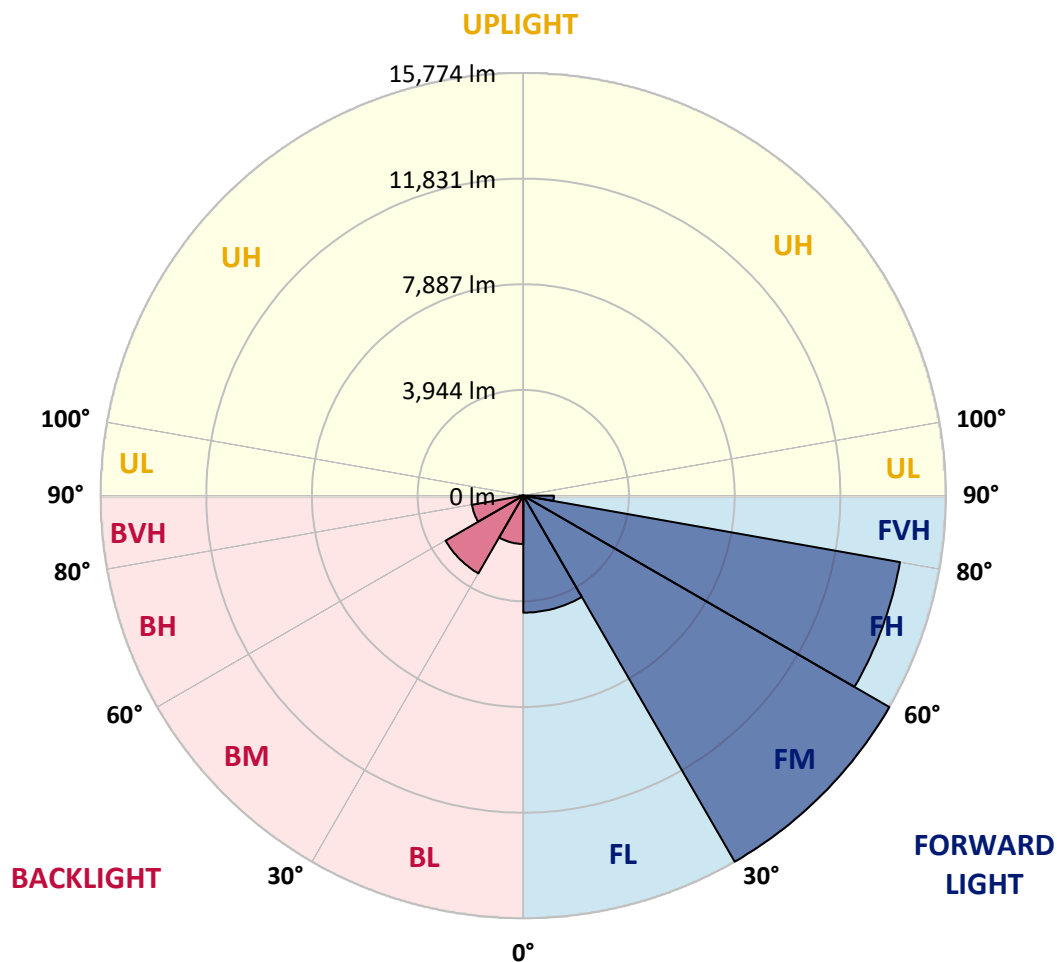
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4367.5	10.2			
FM	(30°-60°)	15774.4	36.9			
FH	(60°-80°)	14274.2	33.4			G5
FVH	(80°-90°)	1139.8	2.7			G5
BL	(0°-30°)	1803.9	4.2	B3/2500		
BM	(30°-60°)	3350.7	7.8	B3/5000		
BH	(60°-80°)	1946.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	131.5	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°	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0
2.5°	14413.4	14432.6	14556.1	14915.5	15162.5	15253.0	15316.1	15198.1	15082.9	14803.0	14380.5
5°	14369.5	14482.0	14803.0	15609.7	16246.3	16520.7	16603.0	16249.0	15664.6	14945.7	14081.4
7.5°	13529.9	13680.8	14174.7	15527.4	16649.6	17291.7	17206.6	16567.3	15513.7	14232.3	13025.0
10°	12533.9	12701.2	13296.6	14932.0	16378.0	17261.5	17261.5	16482.2	15082.9	13560.1	12168.9
12.5°	11743.6	11919.2	12599.7	14320.1	15812.7	16649.6	16789.6	16120.1	14772.8	13134.8	11606.4
15°	11483.0	11653.1	12385.7	13949.7	15214.6	15724.9	15771.6	15552.1	14621.9	13164.9	11581.7
17.5°	11806.7	12026.2	12767.1	14059.4	14665.8	14696.0	14731.7	14904.5	14638.4	13716.5	12081.1
20°	12742.4	12978.4	13752.1	14413.4	14185.6	13872.9	13892.1	14336.6	14833.2	14627.4	13274.7
22.5°	14092.4	14298.1	15091.1	15036.2	13982.6	13337.8	13203.4	13823.5	15121.3	15763.4	14545.1
25°	15549.3	15790.8	16701.7	15960.9	14040.2	13019.5	12934.5	13521.6	15420.4	16825.2	16013.0
27.5°	17217.6	17453.6	18172.4	16893.8	14342.0	12994.8	12893.3	13494.2	15689.3	17807.5	17415.1
30°	18457.8	18674.6	19163.0	17678.6	14712.5	13159.5	13033.2	13711.0	15919.8	18479.8	18781.6
32.5°	19431.9	19656.9	19923.0	18167.0	15200.9	13458.5	13225.3	14106.1	16221.6	18992.9	19794.1
35°	20447.1	20713.2	20694.0	18600.5	15656.3	13804.3	13576.5	14676.8	16696.3	19440.1	21078.2
37.5°	21733.9	21841.0	21703.8	18990.1	16202.4	14427.1	14300.9	15524.6	17371.2	19980.6	22579.1
40°	23040.0	23254.0	22548.9	19462.1	16866.4	15598.7	15585.0	16778.6	18172.4	20614.5	24033.3
42.5°	24159.5	24340.6	23339.1	19873.6	17670.3	17028.3	17132.5	18460.5	19223.3	21349.8	25202.2
45°	25001.9	25163.7	24069.0	20271.5	18729.4	18680.1	19294.7	20263.3	20548.6	22011.1	25888.1
47.5°	25718.0	25874.4	24576.6	20875.1	20038.3	20652.9	21723.0	22142.8	21681.8	22389.7	26656.4
50°	26321.6	26368.3	24925.0	21594.0	21662.6	23070.2	24107.4	24379.0	22801.3	22933.0	27323.1
52.5°	26950.0	26889.6	25525.9	22499.5	23418.7	25364.0	26118.6	26401.2	23874.1	23602.5	28294.5
55°	28357.6	28415.2	26873.2	23640.9	25193.9	27616.7	28610.0	28338.4	25062.2	24834.5	29529.2
57.5°	30058.8	30009.4	28769.2	25427.2	27002.1	29713.0	30453.9	30017.6	26648.2	26527.4	30780.4
60°	30720.0	30785.9	30355.1	27347.8	28785.6	31548.7	32306.0	31628.2	28549.6	28494.8	31724.3
62.5°	30056.0	30426.4	30717.3	29057.3	30305.7	32898.6	33650.4	32876.7	30533.4	30931.3	32385.5
65°	28733.5	28813.1	29803.6	30506.0	31038.3	33120.9	33513.2	33101.7	32190.7	33151.1	32355.3
67.5°	27015.8	27084.4	28245.1	30980.7	30094.4	30596.5	30870.9	30750.2	31677.6	33911.1	30865.4
70°	25380.5	25325.6	26552.1	29770.7	26198.2	25435.4	25663.1	25284.5	27334.1	32053.5	27943.3
72.5°	22197.7	22395.2	23712.3	26406.7	20743.4	19503.2	19999.8	19020.3	21023.3	27452.1	22680.6
75°	17387.7	17434.4	19632.2	22162.0	15648.1	13691.8	14364.0	13955.2	16103.6	22900.1	15661.8
77.5°	12040.0	11935.7	14298.1	16926.7	11159.2	10023.2	10034.2	9839.4	11244.3	16860.9	10640.6
80°	7647.1	7487.9	8950.4	10456.8	7669.0	8204.1	7935.2	7927.0	7320.6	10401.9	6434.3
82.5°	4132.2	4307.8	5655.1	6555.0	5501.4	6341.0	5811.5	5641.3	5024.0	6511.1	4115.8
85°	1882.3	2046.9	3015.5	4458.7	4178.9	4225.5	2823.4	3331.0	4156.9	5287.4	2197.8
87.5°	183.8	236.0	622.9	2104.5	1426.8	1125.0	419.8	809.4	1045.4	1879.5	175.6
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°	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0
2.5°	14207.6	14064.9	13579.3	13178.7	12753.4	12429.6	12007.0	11724.4	11529.6	11236.0	11200.4
5°	13554.6	13206.1	12361.0	11499.4	10755.8	10196.1	9628.1	9106.8	8799.5	8703.5	8580.0
7.5°	12454.3	11867.1	10780.5	9792.8	8939.4	8105.3	7463.2	7007.8	6703.2	6524.8	6310.8
10°	11548.8	10868.3	9545.8	8335.8	7633.4	7114.8	6549.5	6061.1	5685.2	5364.2	5188.6
12.5°	10939.7	10171.4	8684.3	7702.0	7158.7	6607.2	5945.9	5397.1	4842.9	4477.9	4321.5
15°	10755.8	9943.7	8418.1	7386.4	6607.2	5885.5	5144.7	4428.6	3879.8	3534.1	3418.8
17.5°	11205.8	10223.5	8415.4	6966.6	5959.6	5098.1	4148.7	3476.4	2914.0	2656.0	2573.7
20°	12045.5	10761.3	8440.0	6552.3	5257.2	4044.4	3018.2	2466.7	2197.8	2088.1	2046.9
22.5°	13217.1	11581.7	8514.1	6143.5	4488.9	3106.0	2260.9	1981.1	1885.0	1865.8	1857.6
25°	14660.3	12597.0	8763.8	5775.8	3841.4	2370.7	1890.5	1764.3	1709.4	1690.2	1687.5
27.5°	15988.4	13908.5	9065.6	5460.2	3215.8	2044.2	1709.4	1602.4	1547.5	1544.8	1550.3
30°	17187.4	15006.1	9318.1	5106.3	2741.1	1816.4	1591.4	1484.4	1432.3	1429.5	1446.0
32.5°	18224.6	15908.8	9504.7	4757.8	2477.7	1676.5	1484.4	1369.2	1325.3	1317.0	1325.3
35°	19333.1	16808.8	9419.6	4486.2	2326.8	1561.2	1404.8	1292.3	1240.2	1215.5	1215.5
37.5°	20598.0	17736.2	9274.2	4261.2	2258.2	1465.2	1336.2	1226.5	1174.4	1149.7	1146.9
40°	21978.2	18663.6	9073.9	4060.9	2189.6	1407.6	1289.6	1174.4	1111.3	1086.6	1081.1
42.5°	23196.4	19456.6	8909.2	3929.2	2077.1	1418.6	1248.4	1135.9	1056.4	1023.5	1020.7
45°	24255.5	20255.0	8879.1	3852.3	1983.8	1402.1	1237.5	1105.8	1012.5	976.8	971.3
47.5°	25084.2	21086.4	9051.9	3808.4	1882.3	1314.3	1308.8	1086.6	974.1	935.6	930.2
50°	26093.9	22266.3	9447.0	3717.9	1789.0	1232.0	1382.9	1083.8	943.9	894.5	880.8
52.5°	27438.4	23802.8	9982.1	3556.0	1654.5	1155.2	1319.8	1083.8	908.2	858.8	842.4
55°	29471.6	25761.9	10506.2	3328.3	1465.2	1053.6	1190.8	1050.9	856.1	812.2	801.2
57.5°	30818.8	27194.2	10840.9	3012.7	1229.2	979.6	1026.2	998.8	803.9	757.3	757.3
60°	30887.4	27578.3	10681.8	2614.9	1081.1	911.0	891.7	1007.0	757.3	707.9	702.4
62.5°	30097.2	26637.2	9853.1	2258.2	1001.5	836.9	806.7	883.5	710.7	661.3	653.0
65°	28862.4	24236.3	8415.4	2088.1	957.6	771.0	727.1	724.4	661.3	614.6	603.6
67.5°	26593.3	21179.7	6914.5	1989.3	935.6	696.9	655.8	642.1	603.6	565.2	559.7
70°	23248.5	17738.9	5545.3	1948.1	924.7	620.1	587.2	570.7	537.8	507.6	504.9
72.5°	18087.4	14388.7	4576.7	1920.7	919.2	548.8	513.1	491.1	471.9	444.5	444.5
75°	12992.1	10585.7	3492.9	1731.4	850.6	471.9	433.5	419.8	392.4	370.4	375.9
77.5°	8190.4	7128.5	2299.3	1273.1	658.5	378.6	345.7	337.5	315.5	285.4	304.6
80°	5531.6	5013.0	1341.7	801.2	414.3	277.1	266.2	263.4	238.7	205.8	208.5
82.5°	3764.5	3693.2	696.9	455.5	238.7	161.9	156.4	161.9	134.4	109.8	109.8
85°	1470.7	2008.5	329.3	178.3	76.8	24.7	35.7	38.4	22.0	11.0	13.7
87.5°	27.4	205.8	8.2	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°	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0
2.5°	11145.5	11120.8	11161.9	10986.3	11022.0	11087.9	11120.8	11140.0	11411.6	11348.5	11521.4
5°	8695.2	8670.5	8829.7	8851.6	8933.9	8917.5	8997.0	9016.3	9115.0	9150.7	9392.2
7.5°	6324.5	6431.6	6612.7	6705.9	6845.9	6889.8	6848.6	6950.1	6744.4	6892.5	6936.4
10°	5081.6	4952.6	4875.8	5089.8	5117.3	5320.3	5238.0	5172.1	5292.9	5298.4	5413.6
12.5°	4231.0	3953.9	3770.0	3830.4	3896.3	3984.1	3997.8	4129.5	4217.3	4299.6	4368.2
15°	3317.3	3221.3	3053.9	2971.6	3064.9	3100.5	3185.6	3295.4	3388.6	3413.3	3506.6
17.5°	2546.3	2562.7	2535.3	2485.9	2543.5	2571.0	2576.5	2579.2	2603.9	2587.4	2724.6
20°	2049.6	2107.3	2175.9	2186.8	2206.0	2219.8	2195.1	2101.8	2104.5	2162.1	2206.0
22.5°	1854.8	1865.8	1942.6	1967.3	2027.7	2003.0	1931.7	1887.8	1882.3	1896.0	1917.9
25°	1701.2	1717.6	1772.5	1810.9	1857.6	1813.7	1761.5	1720.4	1714.9	1728.6	1750.6
27.5°	1564.0	1588.7	1638.1	1676.5	1720.4	1679.2	1629.8	1594.2	1591.4	1588.7	1602.4
30°	1454.2	1481.7	1517.3	1561.2	1591.4	1555.8	1509.1	1489.9	1487.2	1481.7	1487.2
32.5°	1344.5	1388.4	1424.1	1446.0	1476.2	1448.7	1413.1	1402.1	1382.9	1366.4	1358.2
35°	1221.0	1267.7	1322.5	1350.0	1380.2	1352.7	1328.0	1281.4	1248.4	1245.7	1251.2
37.5°	1149.7	1168.9	1212.8	1259.4	1289.6	1275.9	1229.2	1182.6	1174.4	1174.4	1179.9
40°	1086.6	1094.8	1114.0	1174.4	1229.2	1188.1	1130.5	1116.7	1116.7	1114.0	1116.7
42.5°	1023.5	1031.7	1031.7	1078.3	1166.1	1100.3	1056.4	1056.4	1056.4	1059.1	1067.4
45°	965.8	968.6	965.8	998.8	1081.1	1026.2	996.0	1004.2	1009.7	1015.2	1020.7
47.5°	916.4	919.2	916.4	943.9	985.0	963.1	946.6	957.6	968.6	976.8	982.3
50°	872.5	869.8	875.3	891.7	911.0	916.4	905.5	921.9	927.4	938.4	952.1
52.5°	834.1	831.4	836.9	845.1	872.5	872.5	872.5	886.3	897.2	908.2	927.4
55°	790.2	793.0	801.2	812.2	847.8	842.4	845.1	856.1	867.1	883.5	894.5
57.5°	749.1	754.6	765.5	782.0	817.7	814.9	817.7	823.2	836.9	845.1	856.1
60°	702.4	713.4	727.1	738.1	773.8	771.0	784.7	795.7	803.9	803.9	809.4
62.5°	655.8	672.2	686.0	694.2	732.6	735.3	754.6	762.8	768.3	762.8	771.0
65°	609.1	633.8	639.3	650.3	688.7	691.4	713.4	732.6	727.1	721.6	735.3
67.5°	562.5	592.7	589.9	603.6	642.1	647.5	666.8	699.7	688.7	683.2	694.2
70°	510.4	532.3	535.0	543.3	595.4	587.2	617.4	647.5	639.3	642.1	642.1
72.5°	452.7	471.9	471.9	488.4	543.3	529.6	554.3	587.2	587.2	584.4	584.4
75°	384.1	395.1	406.1	430.8	488.4	471.9	488.4	518.6	524.1	518.6	518.6
77.5°	310.1	326.5	332.0	364.9	406.1	403.3	419.8	433.5	444.5	439.0	439.0
80°	219.5	236.0	257.9	293.6	318.3	326.5	334.7	345.7	351.2	351.2	356.7
82.5°	123.5	148.2	167.4	203.0	214.0	255.2	252.4	260.7	252.4	222.3	246.9
85°	27.4	52.1	74.1	93.3	107.0	148.2	156.4	175.6	145.4	134.4	134.4
87.5°	0.0	0.0	0.0	0.0	0.0	22.0	43.9	60.4	52.1	43.9	43.9
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°	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0	13368.0
2.5°	11666.8	11905.5	12193.6	12690.3	13038.7	13414.6	13793.3	14196.6	14303.6	14413.4
5°	9458.0	9927.2	10182.4	10849.1	11548.8	12437.8	13164.9	13960.7	14292.7	14369.5
7.5°	7164.2	7482.4	8151.9	8826.9	9694.0	10626.9	11740.9	12981.1	13368.0	13529.9
10°	5679.7	6113.3	6700.5	7424.8	8184.9	9189.1	10445.8	11894.5	12443.3	12533.9
12.5°	4834.6	5317.6	5956.9	6722.4	7441.3	8198.6	9466.2	10961.6	11548.8	11743.6
15°	3866.1	4450.5	5188.6	5995.3	6777.3	7605.9	8890.0	10577.5	11255.2	11483.0
17.5°	3037.4	3509.4	4307.8	5183.1	6110.5	7158.7	8769.3	10761.3	11595.5	11806.7
20°	2324.0	2661.5	3333.8	4258.4	5345.0	6716.9	8799.5	11455.5	12454.3	12742.4
22.5°	2008.5	2181.4	2590.2	3471.0	4686.5	6332.8	8923.0	12407.6	13612.2	14092.4
25°	1819.2	1909.7	2140.2	2716.4	4058.1	5959.6	9205.6	13689.0	15231.1	15549.3
27.5°	1657.3	1723.1	1865.8	2280.1	3487.4	5613.9	9534.8	15110.3	16742.9	17217.6
30°	1503.6	1591.4	1725.9	2025.0	3122.5	5298.4	9949.2	16262.7	18016.0	18457.8
32.5°	1385.6	1473.4	1596.9	1846.6	2812.4	4966.3	10196.1	17275.2	19056.0	19431.9
35°	1289.6	1363.7	1492.6	1703.9	2576.5	4713.9	10146.7	18079.2	20063.0	20447.1
37.5°	1221.0	1284.1	1413.1	1569.5	2398.1	4450.5	10122.0	19141.0	21289.4	21733.9
40°	1157.9	1223.8	1341.7	1481.7	2219.8	4140.5	10135.7	20194.7	22595.5	23040.0
42.5°	1108.5	1182.6	1278.6	1457.0	2035.9	3890.8	10135.7	21111.1	23731.5	24159.5
45°	1067.4	1146.9	1240.2	1454.2	1890.5	3701.4	10067.1	21898.6	24636.9	25001.9
47.5°	1031.7	1119.5	1253.9	1404.8	1854.8	3564.2	10006.8	22529.7	25375.0	25718.0
50°	1007.0	1111.3	1333.5	1347.2	1865.8	3523.1	10297.6	23325.4	26025.3	26321.6
52.5°	987.8	1114.0	1330.8	1262.2	1846.6	3550.5	10904.0	24568.3	26928.0	26950.0
55°	949.4	1111.3	1262.2	1166.1	1767.0	3597.2	11683.3	26373.8	28341.1	28357.6
57.5°	911.0	1081.1	1171.6	1083.8	1605.1	3597.2	12621.7	28083.2	30045.0	30058.8
60°	872.5	1125.0	1028.9	1012.5	1393.9	3531.3	13612.2	28835.0	30580.1	30720.0
62.5°	834.1	1133.2	919.2	949.4	1240.2	3372.2	14350.3	28003.6	29855.7	30056.0
65°	790.2	913.7	847.8	883.5	1160.6	3106.0	14117.1	26480.8	28494.8	28733.5
67.5°	738.1	773.8	771.0	814.9	1133.2	2713.7	12887.8	24554.6	27029.6	27015.8
70°	675.0	694.2	702.4	749.1	1081.1	2409.1	10739.4	22055.0	25073.2	25380.5
72.5°	609.1	625.6	633.8	675.0	1028.9	2236.2	8335.8	18611.5	21717.5	22197.7
75°	537.8	548.8	559.7	595.4	974.1	1981.1	5937.7	14207.6	16633.2	17387.7
77.5°	463.7	463.7	477.4	513.1	820.4	1635.3	3984.1	9965.6	11268.9	12040.0
80°	375.9	378.6	373.2	411.6	603.6	1119.5	2263.7	6656.6	7498.9	7647.1
82.5°	288.1	279.9	282.6	301.8	450.0	762.8	1207.3	4135.0	4214.5	4132.2
85°	181.1	181.1	175.6	197.6	288.1	397.9	658.5	2532.6	1978.3	1882.3
87.5°	74.1	60.4	68.6	79.6	137.2	161.9	257.9	521.3	200.3	183.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)