

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: P456061

Luminaire Tested: **GALN-SA7B-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456061
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-SA7B-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 34163 lumens
Efficiency: N/A
Efficacy: 119.5 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

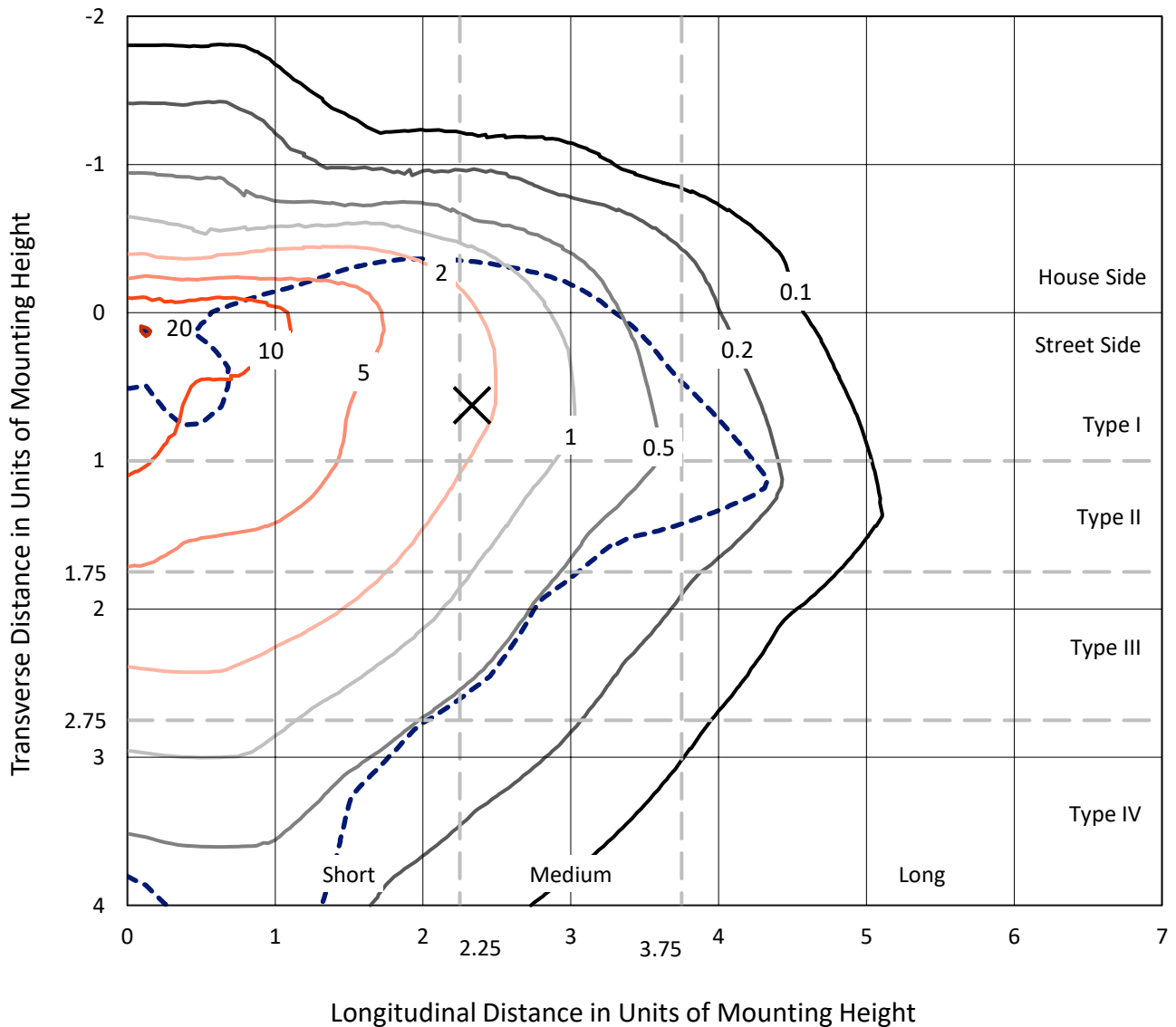
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

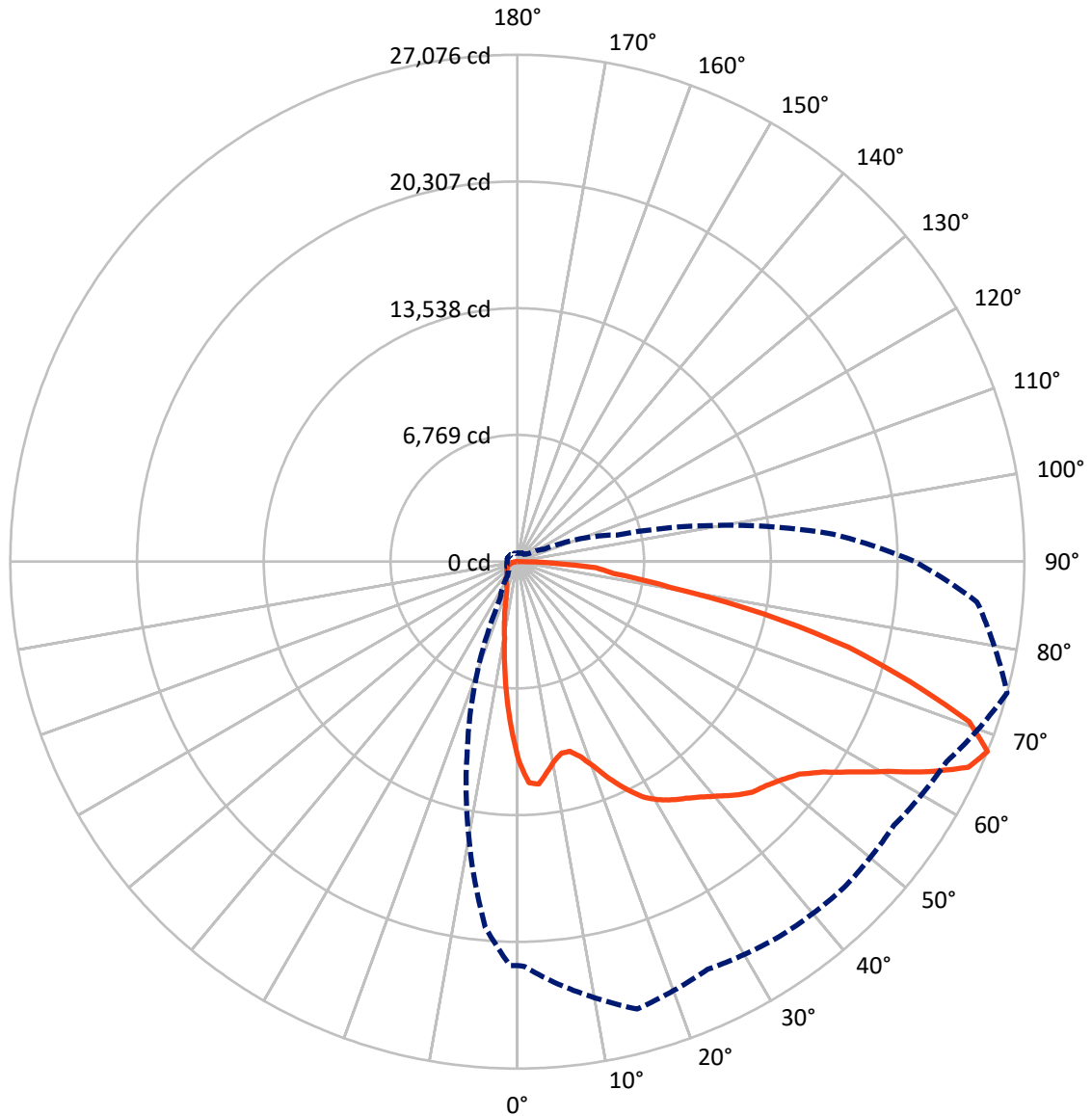
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 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	5774.3	0.0	5774.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	28388.7	0.0	28388.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	34163.0	0.0	34163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.5	2.4
10°-20°	1688.3	4.9
20°-30°	2429.5	7.1
30°-40°	3499.2	10.2
40°-50°	4915.4	14.4
50°-60°	6855.3	20.1
60°-70°	8150.5	23.9
70°-80°	4800.2	14.1
80°-90°	1015.1	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°	34163.0	100.0
0°-180°	34163.0	100.0

Coefficient of Utilization



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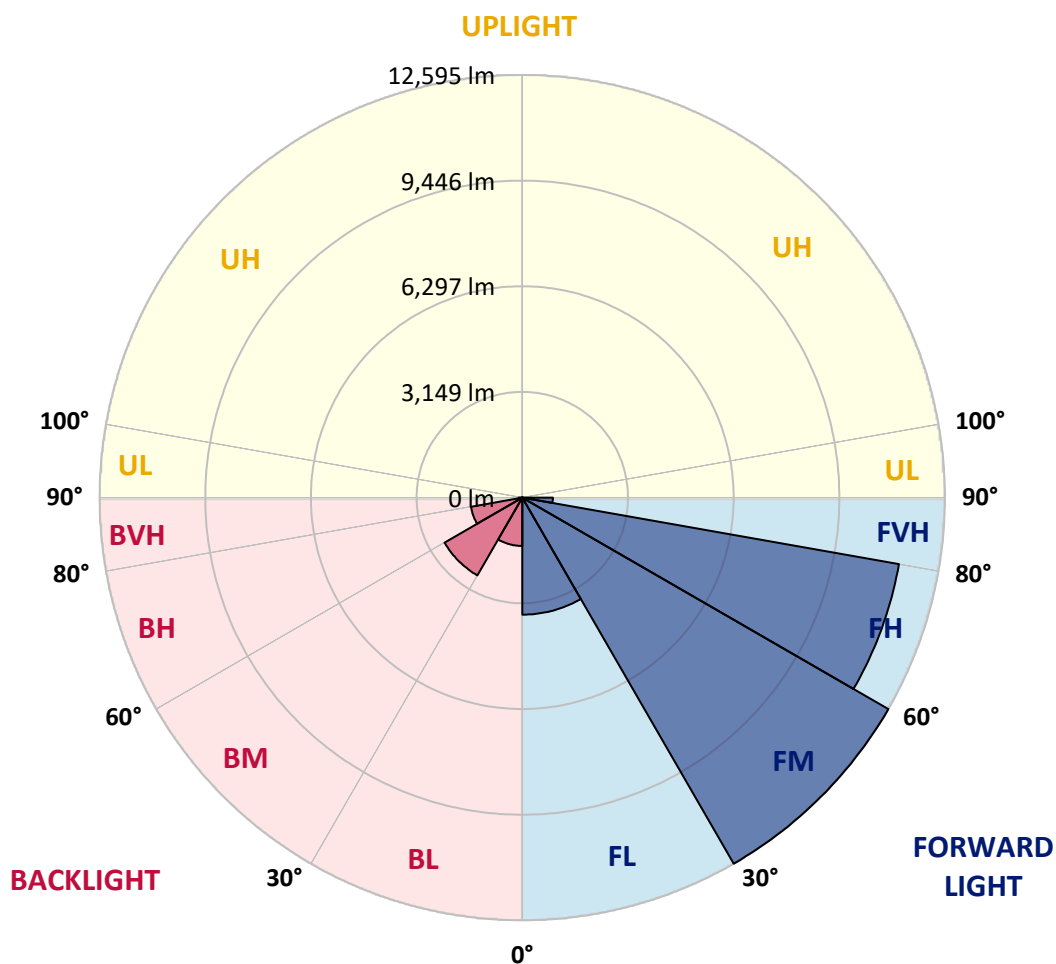
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3487.1	10.2			
FM	(30°-60°)	12594.6	36.9			
FH	(60°-80°)	11396.9	33.4			G4/12000
FVH	(80°-90°)	910.1	2.7			G5
BL	(0°-30°)	1440.3	4.2	B3/2500		
BM	(30°-60°)	2675.2	7.8	B3/5000		
BH	(60°-80°)	1553.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	105.0	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°	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3
2.5°	11508.0	11523.3	11621.9	11908.9	12106.1	12178.4	12228.8	12134.6	12042.5	11819.1	11481.7
5°	11473.0	11562.8	11819.1	12463.2	12971.4	13190.5	13256.2	12973.6	12507.0	11933.0	11242.9
7.5°	10802.6	10923.1	11317.4	12397.4	13293.5	13806.1	13738.2	13227.7	12386.5	11363.4	10399.5
10°	10007.3	10141.0	10616.4	11922.1	13076.6	13782.0	13782.0	13159.8	12042.5	10826.7	9716.0
12.5°	9376.4	9516.6	10059.9	11433.5	12625.3	13293.5	13405.2	12870.7	11795.0	10487.1	9266.9
15°	9168.3	9304.1	9889.0	11137.8	12147.7	12555.2	12592.4	12417.2	11674.5	10511.2	9247.2
17.5°	9426.8	9602.1	10193.6	11225.4	11709.6	11733.7	11762.1	11900.1	11687.6	10951.6	9645.9
20°	10173.8	10362.2	10980.0	11508.0	11326.2	11076.4	11091.8	11446.7	11843.2	11678.9	10598.8
22.5°	11251.7	11416.0	12049.1	12005.3	11164.1	10649.2	10541.9	11037.0	12073.2	12585.9	11613.2
25°	12415.0	12607.8	13335.1	12743.6	11210.1	10395.1	10327.2	10796.0	12312.0	13433.7	12785.2
27.5°	13747.0	13935.4	14509.3	13488.4	11451.0	10375.4	10294.3	10774.1	12526.7	14218.0	13904.7
30°	14737.2	14910.2	15300.2	14115.0	11746.8	10506.8	10406.1	10947.2	12710.7	14754.7	14995.7
32.5°	15514.9	15694.5	15907.0	14504.9	12136.8	10745.6	10559.4	11262.6	12951.7	15164.4	15804.1
35°	16325.5	16538.0	16522.6	14851.1	12500.4	11021.7	10839.8	11718.3	13330.7	15521.5	16829.3
37.5°	17352.9	17438.4	17328.8	15162.2	12936.4	11519.0	11418.2	12395.3	13869.6	15953.0	18027.7
40°	18395.7	18566.6	18003.6	15539.0	13466.5	12454.4	12443.5	13396.4	14509.3	16459.1	19188.8
42.5°	19289.5	19434.1	18634.5	15867.6	14108.4	13595.8	13679.0	14739.4	15348.4	17046.2	20122.0
45°	19962.1	20091.4	19217.3	16185.3	14954.1	14914.6	15405.3	16178.7	16406.5	17574.2	20669.7
47.5°	20533.9	20658.8	19622.5	16667.2	15999.0	16489.8	17344.2	17679.3	17311.3	17876.5	21283.1
50°	21015.9	21053.1	19900.8	17241.2	17296.0	18419.8	19247.9	19464.8	18205.1	18310.3	21815.5
52.5°	21517.5	21469.3	20380.5	17964.1	18698.0	20251.3	20853.7	21079.4	19061.7	18844.8	22591.0
55°	22641.4	22687.4	21456.2	18875.5	20115.5	22049.9	22842.9	22626.1	20010.3	19828.5	23576.8
57.5°	23999.7	23960.2	22970.0	20301.7	21559.2	23723.6	24315.1	23966.8	21276.6	21180.2	24575.8
60°	24527.6	24580.2	24236.3	21835.2	22983.1	25189.2	25793.9	25252.8	22794.7	22750.9	25329.4
62.5°	23997.5	24293.2	24525.4	23200.0	24196.8	26267.1	26867.3	26249.6	24378.7	24696.3	25857.4
65°	22941.5	23005.1	23795.9	24356.7	24781.8	26444.5	26757.8	26429.2	25701.9	26468.6	25833.3
67.5°	21570.1	21624.9	22551.6	24735.7	24028.1	24429.0	24648.1	24551.7	25292.2	27075.5	24643.7
70°	20264.4	20220.6	21199.9	23769.6	20917.3	20308.2	20490.1	20187.8	21824.2	25592.3	22310.6
72.5°	17723.2	17880.9	18932.5	21083.8	16562.1	15571.8	15968.4	15186.3	16785.5	21918.4	18108.7
75°	13882.8	13920.0	15674.8	17694.7	12493.8	10931.8	11468.6	11142.1	12857.5	18284.0	12504.8
77.5°	9613.0	9529.8	11416.0	13514.7	8909.8	8002.8	8011.6	7856.0	8977.7	13462.2	8495.7
80°	6105.6	5978.6	7146.2	8348.9	6123.1	6550.3	6335.6	6329.1	5844.9	8305.1	5137.3
82.5°	3299.3	3439.5	4515.1	5233.7	4392.5	5062.8	4640.0	4504.2	4011.3	5198.6	3286.1
85°	1502.9	1634.3	2407.6	3560.0	3336.5	3373.8	2254.3	2659.6	3319.0	4221.6	1754.8
87.5°	146.8	188.4	497.3	1680.3	1139.2	898.2	335.2	646.3	834.7	1500.7	140.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3
2.5°	11343.7	11229.8	10842.0	10522.2	10182.6	9924.1	9586.7	9361.1	9205.5	8971.1	8942.6
5°	10822.3	10544.1	9869.3	9181.4	8587.7	8140.8	7687.3	7271.1	7025.7	6949.1	6850.5
7.5°	9943.8	9475.0	8607.5	7818.8	7137.5	6471.5	5958.8	5595.2	5352.0	5209.6	5038.7
10°	9220.9	8677.6	7621.6	6655.5	6094.7	5680.6	5229.3	4839.4	4539.2	4282.9	4142.7
12.5°	8734.5	8121.1	6933.7	6149.4	5715.7	5275.3	4747.4	4309.2	3866.7	3575.3	3450.4
15°	8587.7	7939.3	6721.2	5897.5	5275.3	4699.2	4107.7	3535.9	3097.7	2821.7	2729.7
17.5°	8947.0	8162.7	6719.0	5562.3	4758.3	4070.4	3312.4	2775.7	2326.6	2120.6	2054.9
20°	9617.4	8592.1	6738.7	5231.5	4197.5	3229.2	2409.8	1969.5	1754.8	1667.2	1634.3
22.5°	10552.8	9247.2	6797.9	4905.1	3584.1	2479.9	1805.2	1581.7	1505.0	1489.7	1483.1
25°	11705.2	10057.7	6997.3	4611.5	3067.0	1892.8	1509.4	1408.7	1364.8	1349.5	1347.3
27.5°	12765.5	11104.9	7238.2	4359.6	2567.6	1632.1	1364.8	1279.4	1235.6	1233.4	1237.8
30°	13722.9	11981.2	7439.8	4077.0	2188.6	1450.3	1270.6	1185.2	1143.6	1141.4	1154.5
32.5°	14551.0	12702.0	7588.8	3798.8	1978.2	1338.5	1185.2	1093.2	1058.1	1051.6	1058.1
35°	15436.0	13420.5	7520.8	3581.9	1857.8	1246.5	1121.7	1031.8	990.2	970.5	970.5
37.5°	16446.0	14161.0	7404.7	3402.2	1803.0	1169.9	1066.9	979.3	937.6	917.9	915.7
40°	17547.9	14901.5	7244.8	3242.3	1748.2	1123.9	1029.7	937.6	887.3	867.5	863.2
42.5°	18520.6	15534.6	7113.4	3137.2	1658.4	1132.6	996.8	907.0	843.4	817.1	815.0
45°	19366.2	16172.1	7089.3	3075.8	1583.9	1119.5	988.0	882.9	808.4	779.9	775.5
47.5°	20027.8	16835.9	7227.3	3040.8	1502.9	1049.4	1045.0	867.5	777.7	747.0	742.7
50°	20834.0	17777.9	7542.7	2968.5	1428.4	983.6	1104.1	865.3	753.6	714.2	703.2
52.5°	21907.5	19004.7	7969.9	2839.2	1321.0	922.3	1053.8	865.3	725.1	685.7	672.6
55°	23530.8	20568.9	8388.4	2657.4	1169.9	841.2	950.8	839.1	683.5	648.5	639.7
57.5°	24606.5	21712.5	8655.6	2405.4	981.5	782.1	819.3	797.4	641.9	604.6	604.6
60°	24661.3	22019.2	8528.6	2087.8	863.2	727.3	712.0	804.0	604.6	565.2	560.8
62.5°	24030.3	21267.8	7867.0	1803.0	799.6	668.2	644.1	705.4	567.4	528.0	521.4
65°	23044.5	19350.9	6719.0	1667.2	764.6	615.6	580.5	578.4	528.0	490.7	482.0
67.5°	21232.7	16910.4	5520.7	1588.3	747.0	556.5	523.6	512.6	482.0	451.3	446.9
70°	18562.2	14163.2	4427.5	1555.4	738.3	495.1	468.8	455.7	429.4	405.3	403.1
72.5°	14441.4	11488.3	3654.2	1533.5	733.9	438.1	409.7	392.1	376.8	354.9	354.9
75°	10373.2	8451.9	2788.8	1382.4	679.1	376.8	346.1	335.2	313.3	295.8	300.1
77.5°	6539.4	5691.6	1835.8	1016.5	525.8	302.3	276.0	269.5	251.9	227.8	243.2
80°	4416.6	4002.5	1071.3	639.7	330.8	221.3	212.5	210.3	190.6	164.3	166.5
82.5°	3005.7	2948.7	556.5	363.7	190.6	129.3	124.9	129.3	107.3	87.6	87.6
85°	1174.2	1603.6	262.9	142.4	61.3	19.7	28.5	30.7	17.5	8.8	11.0
87.5°	21.9	164.3	6.6	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°	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3
2.5°	8898.8	8879.1	8912.0	8771.8	8800.2	8852.8	8879.1	8894.4	9111.3	9060.9	9199.0
5°	6942.5	6922.8	7049.8	7067.4	7133.1	7119.9	7183.5	7198.8	7277.7	7306.1	7498.9
7.5°	5049.7	5135.1	5279.7	5354.2	5465.9	5501.0	5468.1	5549.2	5384.9	5503.2	5538.2
10°	4057.3	3954.3	3893.0	4063.8	4085.7	4247.9	4182.1	4129.6	4226.0	4230.3	4322.3
12.5°	3378.1	3156.9	3010.1	3058.3	3110.9	3181.0	3191.9	3297.1	3367.2	3432.9	3487.7
15°	2648.6	2571.9	2438.3	2372.6	2447.1	2475.5	2543.5	2631.1	2705.6	2725.3	2799.8
17.5°	2033.0	2046.2	2024.3	1984.8	2030.8	2052.7	2057.1	2059.3	2079.0	2065.9	2175.4
20°	1636.5	1682.5	1737.3	1746.0	1761.4	1772.3	1752.6	1678.1	1680.3	1726.3	1761.4
22.5°	1480.9	1489.7	1551.1	1570.8	1619.0	1599.2	1542.3	1507.2	1502.9	1513.8	1531.3
25°	1358.3	1371.4	1415.2	1445.9	1483.1	1448.1	1406.5	1373.6	1369.2	1380.2	1397.7
27.5°	1248.7	1268.4	1307.9	1338.5	1373.6	1340.7	1301.3	1272.8	1270.6	1268.4	1279.4
30°	1161.1	1183.0	1211.5	1246.5	1270.6	1242.2	1204.9	1189.6	1187.4	1183.0	1187.4
32.5°	1073.5	1108.5	1137.0	1154.5	1178.6	1156.7	1128.2	1119.5	1104.1	1091.0	1084.4
35°	974.9	1012.1	1055.9	1077.8	1101.9	1080.0	1060.3	1023.1	996.8	994.6	999.0
37.5°	917.9	933.3	968.3	1005.6	1029.7	1018.7	981.5	944.2	937.6	937.6	942.0
40°	867.5	874.1	889.4	937.6	981.5	948.6	902.6	891.6	891.6	889.4	891.6
42.5°	817.1	823.7	823.7	861.0	931.1	878.5	843.4	843.4	843.4	845.6	852.2
45°	771.1	773.3	771.1	797.4	863.2	819.3	795.2	801.8	806.2	810.6	815.0
47.5°	731.7	733.9	731.7	753.6	786.5	769.0	755.8	764.6	773.3	779.9	784.3
50°	696.7	694.5	698.8	712.0	727.3	731.7	722.9	736.1	740.5	749.2	760.2
52.5°	666.0	663.8	668.2	674.8	696.7	696.7	696.7	707.6	716.4	725.1	740.5
55°	630.9	633.1	639.7	648.5	676.9	672.6	674.8	683.5	692.3	705.4	714.2
57.5°	598.1	602.5	611.2	624.4	652.8	650.7	652.8	657.2	668.2	674.8	683.5
60°	560.8	569.6	580.5	589.3	617.8	615.6	626.6	635.3	641.9	641.9	646.3
62.5°	523.6	536.7	547.7	554.3	584.9	587.1	602.5	609.0	613.4	609.0	615.6
65°	486.3	506.1	510.4	519.2	549.9	552.1	569.6	584.9	580.5	576.2	587.1
67.5°	449.1	473.2	471.0	482.0	512.6	517.0	532.4	558.6	549.9	545.5	554.3
70°	407.5	425.0	427.2	433.8	475.4	468.8	492.9	517.0	510.4	512.6	512.6
72.5°	361.5	376.8	376.8	390.0	433.8	422.8	442.5	468.8	468.8	466.6	466.6
75°	306.7	315.5	324.2	343.9	390.0	376.8	390.0	414.1	418.4	414.1	414.1
77.5°	247.6	260.7	265.1	291.4	324.2	322.0	335.2	346.1	354.9	350.5	350.5
80°	175.3	188.4	205.9	234.4	254.1	260.7	267.3	276.0	280.4	280.4	284.8
82.5°	98.6	118.3	133.6	162.1	170.9	203.7	201.5	208.1	201.5	177.5	197.2
85°	21.9	41.6	59.2	74.5	85.4	118.3	124.9	140.2	116.1	107.3	107.3
87.5°	0.0	0.0	0.0	0.0	0.0	17.5	35.1	48.2	41.6	35.1	35.1
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°	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3	10673.3
2.5°	9315.1	9505.7	9735.7	10132.2	10410.4	10710.6	11012.9	11334.9	11420.4	11508.0
5°	7551.5	7926.1	8129.9	8662.2	9220.9	9930.7	10511.2	11146.5	11411.6	11473.0
7.5°	5720.0	5974.2	6508.7	7047.6	7739.9	8484.8	9374.2	10364.4	10673.3	10802.6
10°	4534.9	4881.0	5349.8	5928.2	6535.0	7336.8	8340.2	9496.9	9935.0	10007.3
12.5°	3860.1	4245.7	4756.1	5367.3	5941.3	6546.0	7558.1	8752.0	9220.9	9376.4
15°	3086.8	3553.4	4142.7	4786.8	5411.2	6072.8	7098.0	8445.3	8986.5	9168.3
17.5°	2425.2	2802.0	3439.5	4138.3	4878.8	5715.7	7001.6	8592.1	9258.1	9426.8
20°	1855.6	2125.0	2661.8	3400.0	4267.6	5363.0	7025.7	9146.4	9943.8	10173.8
22.5°	1603.6	1741.6	2068.1	2771.3	3741.8	5056.2	7124.3	9906.6	10868.3	11251.7
25°	1452.5	1524.8	1708.8	2168.8	3240.1	4758.3	7350.0	10929.6	12160.8	12415.0
27.5°	1323.2	1375.8	1489.7	1820.5	2784.4	4482.3	7612.9	12064.5	13368.0	13747.0
30°	1200.5	1270.6	1378.0	1616.8	2493.1	4230.3	7943.7	12984.6	14384.5	14737.2
32.5°	1106.3	1176.4	1275.0	1474.4	2245.5	3965.3	8140.8	13793.0	15214.8	15514.9
35°	1029.7	1088.8	1191.8	1360.5	2057.1	3763.7	8101.4	14434.8	16018.8	16325.5
37.5°	974.9	1025.3	1128.2	1253.1	1914.7	3553.4	8081.7	15282.7	16998.0	17352.9
40°	924.5	977.1	1071.3	1183.0	1772.3	3305.8	8092.6	16123.9	18040.8	18395.7
42.5°	885.1	944.2	1020.9	1163.3	1625.5	3106.5	8092.6	16855.6	18947.8	19289.5
45°	852.2	915.7	990.2	1161.1	1509.4	2955.3	8037.9	17484.4	19670.7	19962.1
47.5°	823.7	893.8	1001.2	1121.7	1480.9	2845.8	7989.7	17988.2	20260.0	20533.9
50°	804.0	887.3	1064.7	1075.7	1489.7	2812.9	8221.9	18623.6	20779.3	21015.9
52.5°	788.7	889.4	1062.5	1007.7	1474.4	2834.8	8706.0	19616.0	21500.0	21517.5
55°	758.0	887.3	1007.7	931.1	1410.8	2872.1	9328.2	21057.5	22628.2	22641.4
57.5°	727.3	863.2	935.4	865.3	1281.6	2872.1	10077.4	22422.3	23988.7	23999.7
60°	696.7	898.2	821.5	808.4	1112.9	2819.5	10868.3	23022.6	24415.9	24527.6
62.5°	666.0	904.8	733.9	758.0	990.2	2692.4	11457.6	22358.8	23837.5	23997.5
65°	630.9	729.5	676.9	705.4	926.7	2479.9	11271.4	21142.9	22750.9	22941.5
67.5°	589.3	617.8	615.6	650.7	904.8	2166.7	10289.9	19605.0	21581.1	21570.1
70°	538.9	554.3	560.8	598.1	863.2	1923.5	8574.6	17609.2	20019.1	20264.4
72.5°	486.3	499.5	506.1	538.9	821.5	1785.5	6655.5	14859.9	17339.8	17723.2
75°	429.4	438.1	446.9	475.4	777.7	1581.7	4740.8	11343.7	13280.3	13882.8
77.5°	370.2	370.2	381.2	409.7	655.0	1305.7	3181.0	7956.8	8997.4	9613.0
80°	300.1	302.3	297.9	328.6	482.0	893.8	1807.4	5314.8	5987.3	6105.6
82.5°	230.0	223.5	225.6	241.0	359.3	609.0	963.9	3301.5	3365.0	3299.3
85°	144.6	144.6	140.2	157.7	230.0	317.7	525.8	2022.1	1579.5	1502.9
87.5°	59.2	48.2	54.8	63.5	109.5	129.3	205.9	416.2	159.9	146.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)