

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: P532553

Luminaire Tested: **GALN-SA7D-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23671 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 433
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



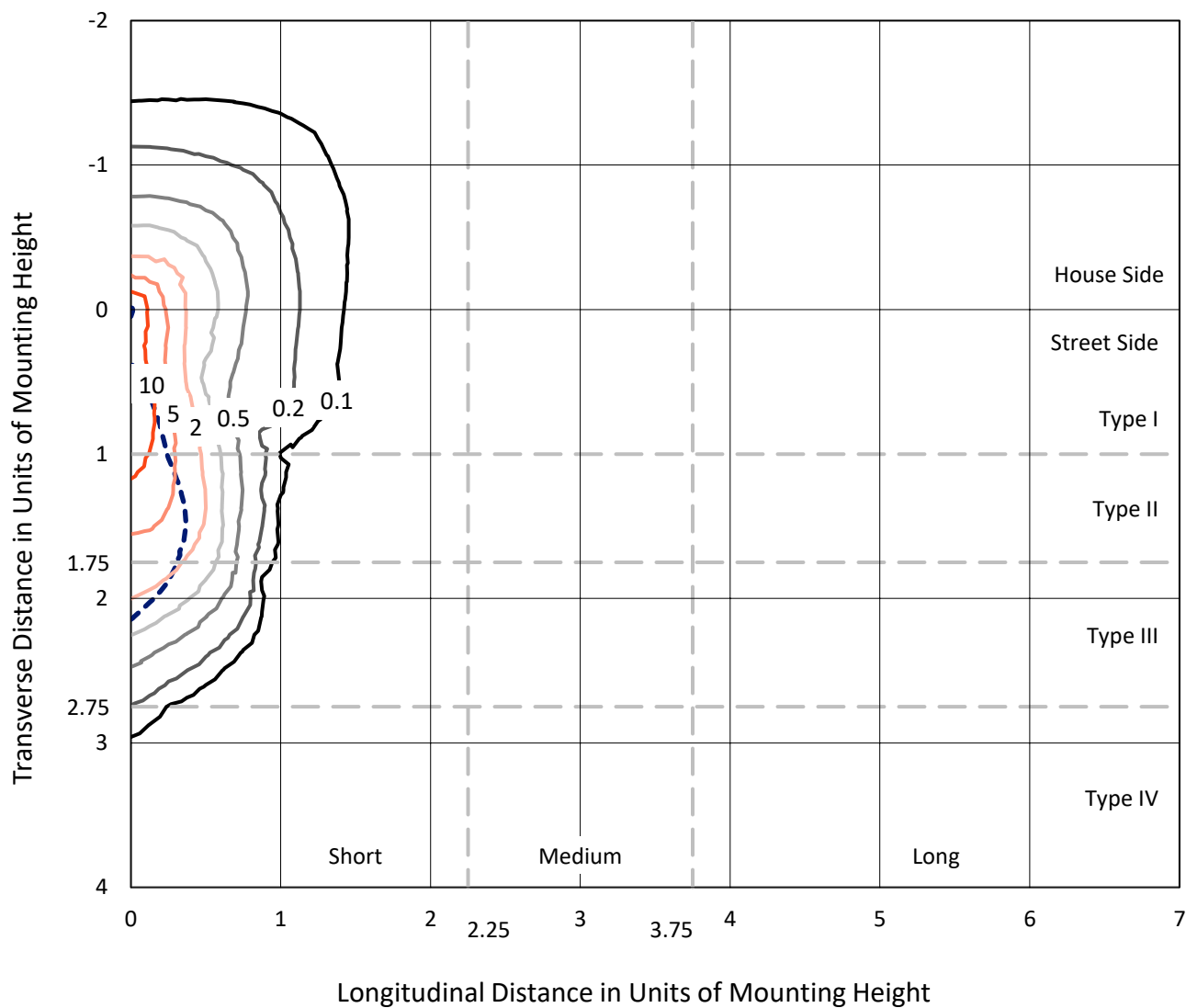
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



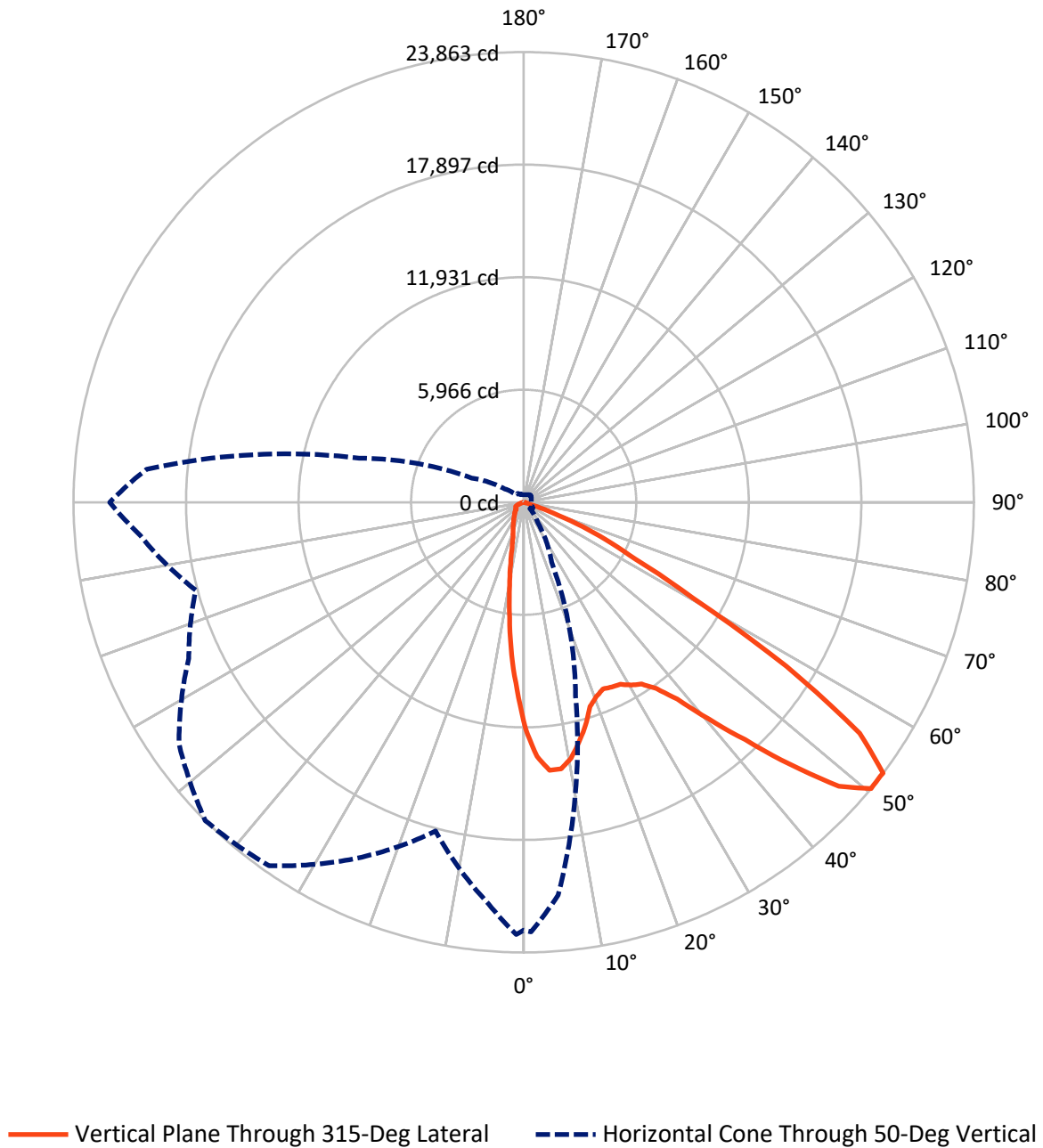
Based on 25 foot mounting height. Maximum calculated value = 19.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4741.3	0.0	4741.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	18929.7	0.0	18929.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	23671.0	0.0	23671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.0	3.7
10°-20°	1739.0	7.3
20°-30°	2612.5	11.0
30°-40°	3921.3	16.6
40°-50°	5511.0	23.3
50°-60°	5944.6	25.1
60°-70°	2760.1	11.7
70°-80°	259.7	1.1
80°-90°	47.9	0.2
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°	23671.0	100.0
0°-180°	23671.0	100.0

Coefficient of Utilization



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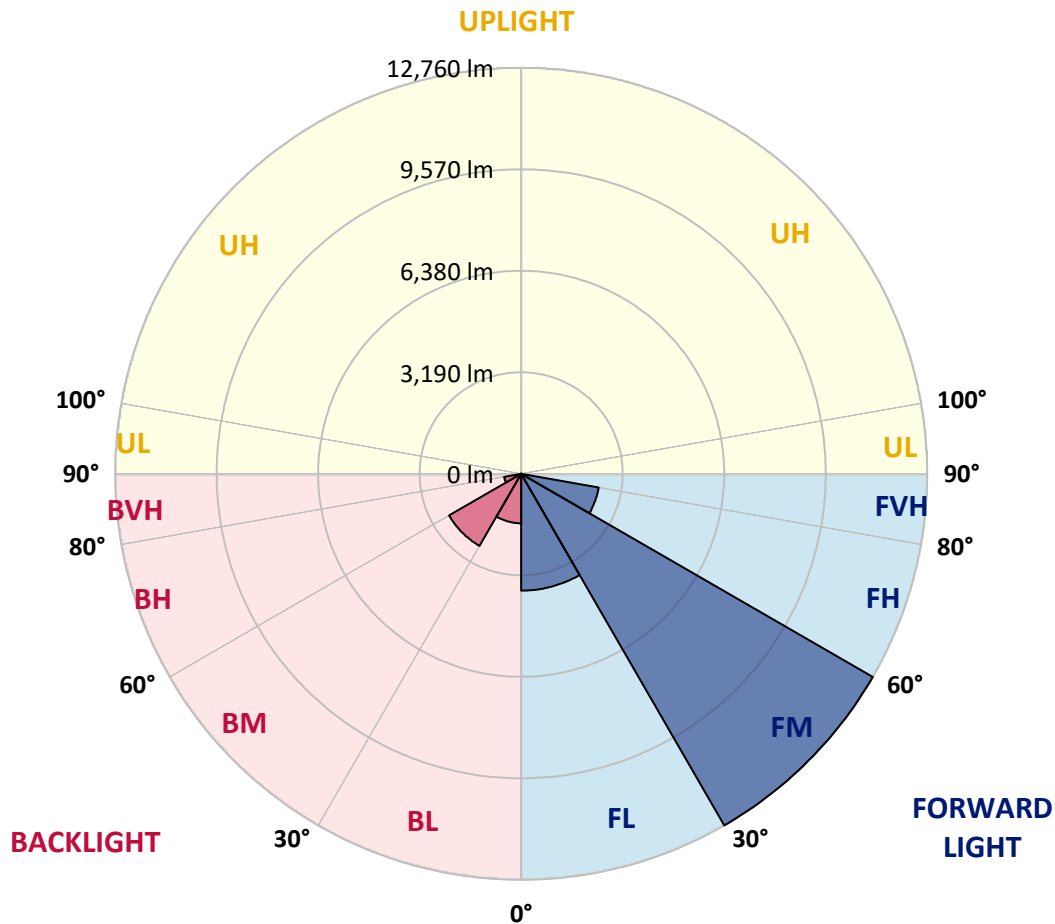
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3672.4	15.5			
FM	(30°-60°)	12760.4	53.9			
FH	(60°-80°)	2475.3	10.5			G2/5000
FVH	(80°-90°)	21.6	0.1			G1/100
BL	(0°-30°)	1554.1	6.6	B3/2500		
BM	(30°-60°)	2616.5	11.1	B3/5000		
BH	(60°-80°)	544.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	26.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2
2.5°	12478.5	12286.0	12041.8	11839.8	11539.2	10933.4	10769.0	10571.8	10407.4	10186.6	9876.7
5°	11346.7	11285.6	11172.9	10412.1	9862.6	9129.9	8528.8	8275.2	7941.7	7669.3	7472.1
7.5°	10482.5	10238.3	9881.4	9115.9	8237.6	7453.3	6786.4	6396.6	5955.1	5804.8	5537.1
10°	9557.3	9613.7	9087.7	8012.2	6950.8	6316.8	5903.5	5527.7	5128.5	4865.5	4485.1
12.5°	9261.4	9078.3	8674.4	7345.3	6438.9	5847.1	5344.6	4879.6	4457.0	4034.3	3667.9
15°	9454.0	9172.2	8608.6	7204.4	6044.4	5307.0	4677.7	4048.4	3658.6	3118.5	2738.0
17.5°	10144.4	9918.9	9162.8	7354.7	5842.4	4790.4	3855.8	3207.7	2611.2	2122.8	1930.2
20°	11295.0	10975.7	10027.0	7547.2	5541.8	4165.8	3127.8	2329.4	1765.9	1559.2	1451.2
22.5°	12422.2	12248.4	11050.8	7918.3	5274.1	3611.6	2348.2	1568.6	1319.7	1282.1	1211.7
25°	14568.5	14047.1	12614.7	8589.8	5067.5	3090.3	1770.6	1263.4	1117.8	1089.6	1099.0
27.5°	15845.9	15409.1	14061.2	9036.0	4837.4	2691.1	1498.2	1160.0	1061.4	1000.3	976.9
30°	17071.7	16564.5	14779.8	9299.0	4344.2	2268.4	1329.1	1113.1	1089.6	1000.3	972.2
32.5°	18015.7	17517.8	15817.7	9693.5	4142.3	1996.0	1094.3	868.8	807.8	798.4	882.9
35°	19462.2	18931.5	16705.3	9909.6	3987.3	1855.1	948.7	774.9	704.5	676.3	681.0
37.5°	20810.1	20448.4	17527.2	9994.1	3822.9	1812.8	850.1	695.1	634.0	615.2	610.5
40°	21937.2	21129.4	18306.8	10083.3	3752.5	1733.0	789.0	634.0	591.8	563.6	563.6
42.5°	22453.8	21631.9	19180.4	10031.7	3733.7	1606.2	789.0	582.4	549.5	521.3	516.6
45°	22341.1	22007.7	19570.2	10008.2	3733.7	1479.4	718.6	568.3	521.3	483.7	474.3
47.5°	22632.3	22195.5	20058.6	10106.8	3658.6	1390.2	605.8	596.5	493.1	446.2	436.8
50°	22684.0	22768.5	20908.7	10618.7	3494.2	1277.4	474.3	587.1	474.3	403.9	394.5
52°	23022.1	22496.1	21167.0	10891.1	3320.4	1192.9	399.2	502.5	455.6	375.7	366.3
52.5°	22557.2	22900.0	21228.1	10989.7	3339.2	1136.5	385.1	493.1	446.2	375.7	352.2
55°	22035.8	22364.6	20979.1	11201.1	3062.1	892.3	300.6	356.9	403.9	328.8	314.7
57.5°	19152.2	19485.7	18231.7	10257.1	2493.8	629.3	248.9	267.7	356.9	305.3	291.2
60°	17024.7	16785.2	15301.1	8557.0	1770.6	352.2	197.3	206.6	389.8	281.8	277.1
62.5°	15559.4	15047.5	12788.5	6607.9	1080.2	234.8	155.0	159.7	300.6	263.0	263.0
65°	11511.1	10938.1	8495.9	3996.7	530.7	164.4	117.4	126.8	187.9	225.4	225.4
67.5°	6570.4	6349.6	4104.7	1803.4	220.7	103.3	89.2	98.6	145.6	183.2	173.8
70°	3019.8	2709.9	1578.0	380.4	103.3	70.4	70.4	79.8	117.4	136.2	126.8
72.5°	882.9	836.0	385.1	61.1	42.3	42.3	47.0	61.1	89.2	103.3	93.9
75°	65.8	42.3	28.2	18.8	18.8	28.2	37.6	61.1	89.2	98.6	79.8
77.5°	4.7	9.4	4.7	4.7	14.1	28.2	42.3	75.1	117.4	122.1	89.2
80°	4.7	4.7	0.0	4.7	14.1	28.2	47.0	84.5	131.5	140.9	75.1
82.5°	0.0	0.0	0.0	4.7	18.8	37.6	56.4	89.2	122.1	150.3	79.8
85°	0.0	0.0	0.0	4.7	28.2	51.7	65.8	23.5	14.1	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2
2.5°	10097.4	9975.3	9928.3	9970.6	9956.5	9942.4	10200.7	10144.4	10135.0	10219.5	10200.7
5°	7580.1	7364.1	7955.8	7716.3	7965.2	8115.5	8143.7	8157.8	8331.5	8148.4	8387.9
7.5°	5400.9	5457.3	5452.6	5612.3	5898.8	6152.4	6302.7	6185.3	6175.9	6152.4	6049.1
10°	4316.1	4217.4	4198.6	4161.1	4250.3	4466.3	4649.5	4503.9	4400.6	4541.5	4499.2
12.5°	3527.0	3390.9	3315.7	3165.4	3170.1	3315.7	3315.7	3315.7	3419.0	3498.9	3559.9
15°	2705.2	2592.5	2592.5	2442.2	2409.3	2414.0	2489.1	2498.5	2662.9	2709.9	2733.3
17.5°	1892.7	1831.6	1902.1	1963.1	1925.6	1934.9	1963.1	1972.5	1996.0	1977.2	2024.2
20°	1455.9	1446.5	1465.3	1573.3	1653.2	1700.1	1667.2	1620.3	1592.1	1526.4	1526.4
22.5°	1235.2	1254.0	1286.8	1376.1	1479.4	1507.6	1470.0	1362.0	1277.4	1268.0	1272.7
25°	1099.0	1117.8	1169.4	1225.8	1282.1	1329.1	1291.5	1211.7	1164.7	1122.5	1122.5
27.5°	1014.4	1023.8	1052.0	1094.3	1141.2	1178.8	1164.7	1122.5	1070.8	1052.0	1009.7
30°	948.7	962.8	995.7	1005.0	1047.3	1066.1	1042.6	1033.2	1000.3	976.9	962.8
32.5°	915.8	911.1	934.6	944.0	948.7	962.8	934.6	948.7	944.0	906.4	892.3
35°	690.4	728.0	789.0	840.7	854.8	873.5	868.8	850.1	798.4	756.1	704.5
37.5°	619.9	643.4	676.3	718.6	774.9	798.4	789.0	742.0	681.0	652.8	643.4
40°	573.0	587.1	615.2	643.4	699.8	742.0	709.2	666.9	619.9	596.5	582.4
42.5°	530.7	535.4	549.5	577.7	619.9	685.7	629.3	573.0	554.2	540.1	530.7
45°	483.7	483.7	502.5	516.6	563.6	624.6	568.3	516.6	507.2	497.8	493.1
47.5°	446.2	450.9	460.3	479.0	516.6	558.9	521.3	479.0	455.6	450.9	441.5
50°	399.2	403.9	422.7	441.5	488.4	511.9	488.4	441.5	418.0	403.9	403.9
52°	361.6	375.7	394.5	432.1	465.0	502.5	474.3	422.7	394.5	380.4	371.0
52.5°	356.9	366.3	385.1	427.4	465.0	497.8	469.6	418.0	385.1	375.7	366.3
55°	319.4	333.4	366.3	418.0	460.3	497.8	460.3	413.3	366.3	342.8	333.4
57.5°	305.3	314.7	356.9	422.7	455.6	497.8	460.3	413.3	366.3	324.1	314.7
60°	291.2	310.0	356.9	408.6	450.9	502.5	465.0	408.6	356.9	305.3	305.3
62.5°	277.1	291.2	352.2	399.2	432.1	483.7	446.2	399.2	342.8	291.2	286.5
65°	239.5	263.0	310.0	333.4	371.0	418.0	380.4	347.5	300.6	258.3	253.6
67.5°	183.2	192.6	230.1	258.3	281.8	324.1	305.3	263.0	230.1	197.3	197.3
70°	126.8	136.2	164.4	178.5	201.9	225.4	211.3	178.5	155.0	136.2	131.5
72.5°	89.2	93.9	103.3	112.7	122.1	131.5	126.8	103.3	89.2	84.5	79.8
75°	70.4	79.8	84.5	79.8	75.1	70.4	70.4	61.1	51.7	47.0	47.0
77.5°	70.4	75.1	70.4	61.1	51.7	47.0	42.3	37.6	28.2	23.5	28.2
80°	61.1	61.1	61.1	51.7	47.0	42.3	37.6	32.9	28.2	23.5	23.5
82.5°	65.8	65.8	61.1	51.7	51.7	42.3	42.3	37.6	32.9	23.5	23.5
85°	0.0	0.0	0.0	9.4	23.5	42.3	42.3	37.6	32.9	28.2	28.2
87.5°	0.0	0.0	0.0	0.0	4.7	9.4	18.8	23.5	28.2	28.2	28.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2
2.5°	10369.8	10548.3	10886.4	11224.6	11431.2	11675.4	12116.9	12351.7	12657.0	12807.3	13103.2
5°	8355.0	8777.7	8928.0	9313.1	9726.4	10139.7	10797.2	11520.4	12121.6	12534.9	13070.3
7.5°	6096.0	6194.6	6777.0	7035.3	7711.6	8463.0	9360.1	10271.2	11032.0	11708.3	12116.9
10°	4569.7	4931.3	5297.6	5790.7	6335.5	7110.5	7969.9	8975.0	9961.2	10637.5	11154.1
12.5°	3672.6	3959.1	4447.6	4978.3	5649.9	6161.8	7025.9	8021.6	9299.0	9961.2	10642.2
15°	2780.3	3146.6	3700.8	4250.3	4959.5	5499.6	6373.1	7627.1	9270.8	10181.9	10769.0
17.5°	2061.8	2310.7	2808.5	3423.7	4147.0	4907.8	6086.6	7584.8	9585.5	10670.4	11276.2
20°	1578.0	1662.6	1977.2	2526.7	3311.0	4306.7	5621.7	7768.0	10515.4	11858.6	12473.8
22.5°	1277.4	1315.0	1437.1	1817.5	2578.4	3780.7	5400.9	7894.8	11562.7	13281.6	14103.5
25°	1113.1	1103.7	1183.5	1347.9	2014.8	3287.5	5119.2	8373.8	12844.8	14953.6	15690.9
27.5°	1014.4	1014.4	1052.0	1169.4	1671.9	2968.2	4940.7	8716.7	14136.4	16423.6	16822.8
30°	962.8	972.2	1080.2	1117.8	1390.2	2587.8	4644.8	9064.2	15371.6	17362.9	17912.3
32.5°	892.3	854.8	831.3	925.2	1169.4	2244.9	4348.9	9209.8	16371.9	18513.5	18983.1
35°	685.7	666.9	695.1	765.5	1005.0	1953.7	4020.2	9374.2	17522.5	19847.3	19941.2
37.5°	619.9	615.2	634.0	695.1	845.4	1700.1	3785.4	9331.9	18400.8	20951.0	20697.3
40°	573.0	573.0	587.1	638.7	756.1	1521.7	3541.1	9294.3	19250.8	22190.8	21448.8
42.5°	535.4	535.4	558.9	591.8	718.6	1404.2	3358.0	9242.7	19964.7	22951.7	21890.3
45°	483.7	497.8	535.4	568.3	728.0	1324.4	3221.8	9045.4	20208.9	22942.3	21678.9
47.5°	446.2	465.0	502.5	549.5	657.5	1300.9	3127.8	8871.6	20124.4	22378.7	21016.7
50°	403.9	427.4	479.0	558.9	558.9	1254.0	3029.2	9026.6	20063.3	21941.9	20382.7
52°	375.7	394.5	460.3	544.8	488.4	1155.3	2968.2	9327.2	20312.2	21885.6	20100.9
52.5°	371.0	385.1	446.2	535.4	465.0	1136.5	2925.9	9397.6	20392.1	21744.7	20293.5
55°	328.8	347.5	408.6	418.0	380.4	934.6	2789.7	9557.3	19997.6	21467.6	20110.3
57.5°	310.0	319.4	361.6	342.8	328.8	704.5	2399.9	9308.4	17762.1	19067.7	18710.7
60°	286.5	295.9	338.1	267.7	277.1	493.1	1803.4	8082.6	14263.2	15888.2	16531.6
62.5°	277.1	272.4	319.4	216.0	234.8	356.9	1272.7	6570.4	10989.7	13079.7	14192.7
65°	244.2	239.5	230.1	183.2	201.9	277.1	760.8	4287.9	7744.5	9895.5	10506.0
67.5°	187.9	197.3	169.1	145.6	169.1	216.0	422.7	1920.9	4062.4	5936.3	6429.5
70°	131.5	140.9	136.2	126.8	150.3	178.5	244.2	657.5	1681.3	3118.5	3437.8
72.5°	79.8	98.6	103.3	108.0	131.5	155.0	173.8	211.3	446.2	1103.7	1371.4
75°	47.0	65.8	79.8	93.9	108.0	131.5	145.6	150.3	155.0	206.6	333.4
77.5°	32.9	47.0	70.4	89.2	108.0	131.5	155.0	164.4	155.0	145.6	155.0
80°	28.2	47.0	65.8	84.5	112.7	136.2	155.0	155.0	150.3	131.5	140.9
82.5°	28.2	47.0	70.4	89.2	108.0	131.5	150.3	155.0	140.9	131.5	136.2
85°	32.9	51.7	75.1	93.9	117.4	108.0	98.6	79.8	75.1	61.1	65.8
87.5°	32.9	47.0	47.0	51.7	56.4	56.4	56.4	51.7	42.3	37.6	37.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2	12004.2
2.5°	13117.2	13493.0	13478.9	13488.3	13431.9	13051.5	12868.3	12403.4	12534.9	12478.5
5°	13619.8	13990.8	14310.1	14272.6	13840.5	13323.9	12558.4	11835.1	11637.9	11346.7
7.5°	13117.2	14009.6	14305.5	14263.2	13624.5	12962.3	11741.2	11017.9	10675.1	10482.5
10°	12318.8	13352.1	13718.4	13793.5	13361.5	12356.4	11234.0	10073.9	9890.8	9557.3
12.5°	11863.3	12614.7	12840.2	13042.1	12891.8	12140.4	10848.8	9735.8	9482.2	9261.4
15°	11492.3	11938.4	12032.4	12262.5	12351.7	11947.8	11050.8	10102.1	9477.5	9454.0
17.5°	11835.1	11651.9	11309.1	11379.6	11661.3	11952.5	11572.1	10825.4	10219.5	10144.4
20°	12403.4	11595.6	10820.7	10994.4	11229.3	12121.6	12361.1	11835.1	11487.6	11295.0
22.5°	13056.2	11694.2	10665.7	10750.2	11196.4	12502.0	13638.6	13347.4	12699.3	12422.2
25°	14263.2	11966.6	10787.8	10844.2	11454.7	13032.7	14793.9	15009.9	14624.8	14568.5
27.5°	15442.0	12671.1	11055.5	10928.7	11586.2	13549.3	15493.7	16653.7	15977.4	15845.9
30°	16043.1	13244.0	11454.7	11238.7	12131.0	13864.0	15916.3	17724.5	17132.7	17071.7
32.5°	16963.7	13765.4	11764.7	11487.6	12436.3	14253.8	16705.3	18893.9	18320.9	18015.7
35°	17348.8	14333.6	12445.6	12121.6	13309.8	14798.6	17109.2	19936.5	19758.1	19462.2
37.5°	18090.8	14944.2	13248.7	13230.0	14366.5	15507.7	17837.2	21354.9	21322.0	20810.1
40°	18151.9	15611.1	14516.8	15108.5	16000.9	16742.9	18475.9	21749.4	22284.8	21937.2
42.5°	18245.8	16780.5	16710.0	17198.5	17964.0	17804.3	18499.4	21843.3	22660.5	22453.8
45°	18288.1	17949.9	18940.9	19842.6	20162.0	19194.5	18278.7	21664.8	22857.7	22341.1
47.5°	17949.9	18955.0	20744.3	22486.7	22580.6	20049.2	18184.7	21481.7	22975.1	22632.3
50°	17996.9	19584.3	22303.5	23862.8	23519.9	20805.4	18039.1	21368.9	22914.1	22684.0
52°	17884.2	19598.4	22524.3	23834.6	23595.1	20387.4	17790.2	20936.9	22857.7	23022.1
52.5°	18011.0	19513.8	22294.1	23853.4	23543.4	20594.0	17757.4	21176.4	22890.6	22557.2
55°	17574.2	18508.8	20946.3	21608.5	21561.5	18692.0	16747.6	20382.7	22031.1	22035.8
57.5°	15883.5	16043.1	16428.3	16414.2	16198.1	14695.3	14324.2	18743.6	19640.6	19152.2
60°	13995.5	11745.9	10708.0	10285.3	10045.8	9801.5	12671.1	17146.8	17231.4	17024.7
62.5°	12093.4	8143.7	6762.9	6645.5	6701.9	7594.2	12248.4	16512.8	16005.6	15559.4
65°	9759.3	5936.3	4912.5	4757.5	5307.0	6269.8	9914.3	12661.7	11882.1	11511.1
67.5°	6128.9	4330.1	3320.4	3029.2	3691.4	4316.1	6514.0	7955.8	7082.3	6570.4
70°	3635.1	2418.7	1502.9	1347.9	1517.0	2301.3	3649.2	3968.5	3282.8	3019.8
72.5°	1432.4	887.6	418.0	356.9	371.0	807.8	1343.2	1310.3	991.0	882.9
75°	385.1	267.7	145.6	117.4	98.6	150.3	216.0	140.9	51.7	65.8
77.5°	178.5	159.7	126.8	98.6	75.1	56.4	28.2	9.4	9.4	4.7
80°	155.0	136.2	117.4	98.6	75.1	47.0	23.5	4.7	4.7	4.7
82.5°	145.6	126.8	108.0	89.2	70.4	47.0	23.5	4.7	0.0	0.0
85°	61.1	79.8	89.2	84.5	75.1	47.0	23.5	4.7	0.0	0.0
87.5°	32.9	28.2	23.5	18.8	14.1	9.4	9.4	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

(END OF REPORT)