

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: P651298

Luminaire Tested: **GALN-SA3D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651298
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-SA3D-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 10737.1 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

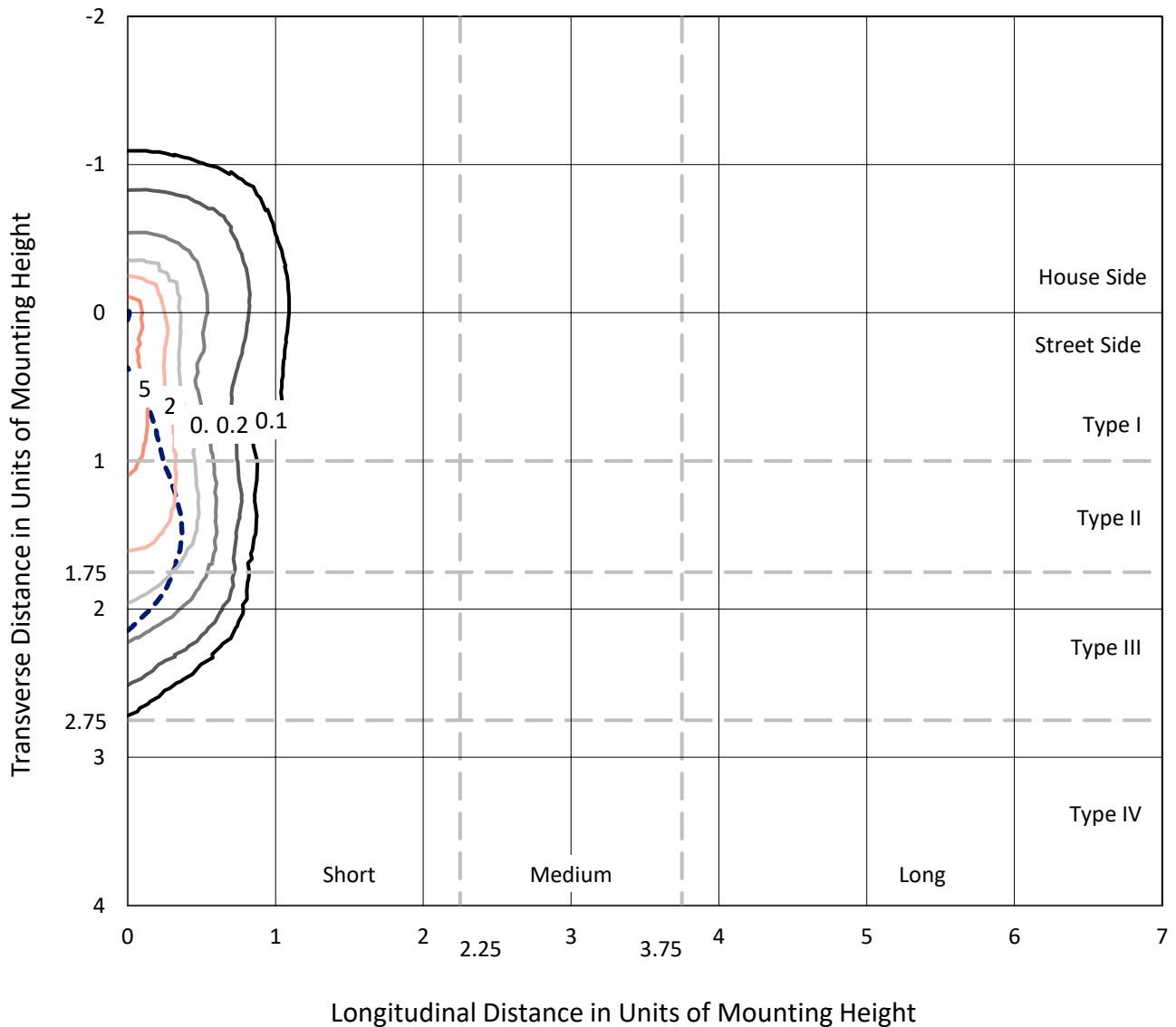
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

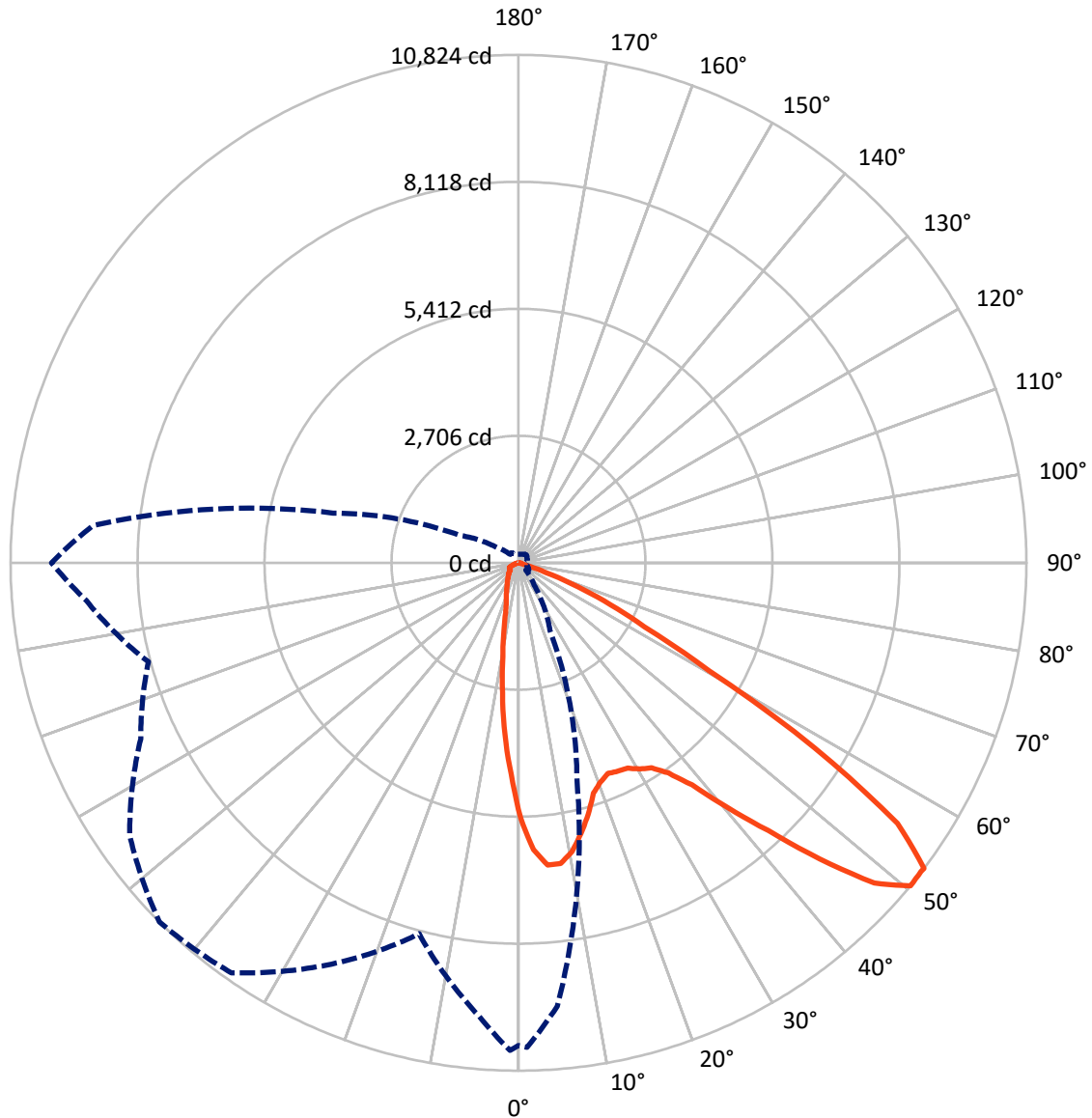
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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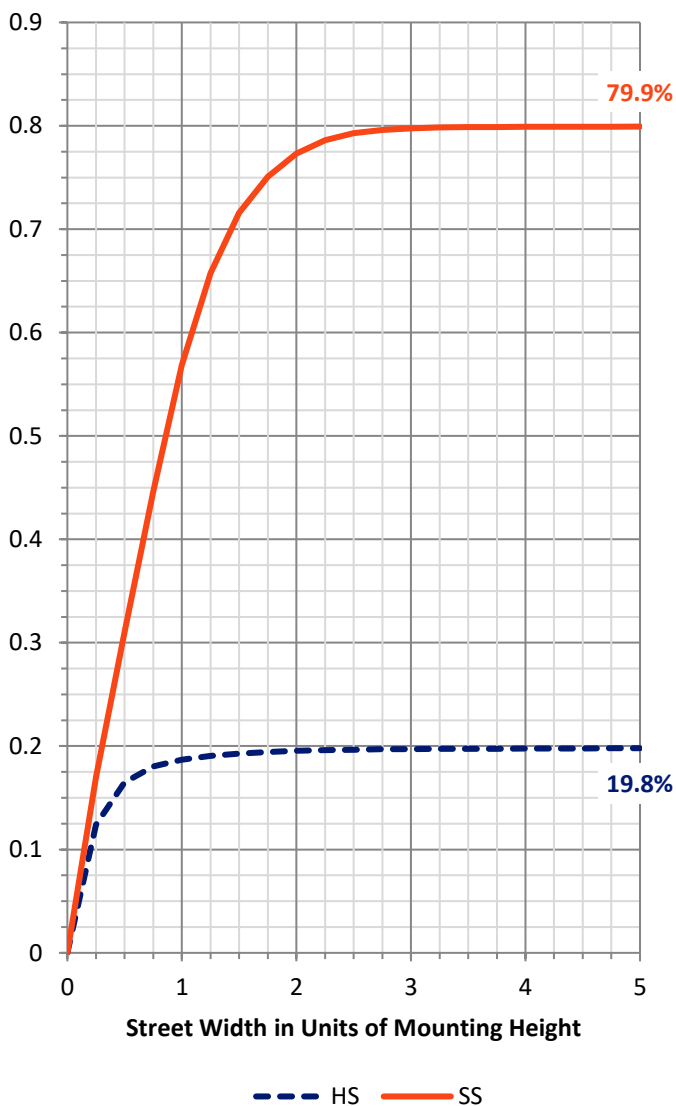
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2150.6	0.0	2150.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	8586.4	0.0	8586.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	10737.1	0.0	10737.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.9	3.7
10°-20°	788.8	7.3
20°-30°	1185.0	11.0
30°-40°	1778.7	16.6
40°-50°	2499.8	23.3
50°-60°	2696.5	25.1
60°-70°	1252.0	11.7
70°-80°	117.8	1.1
80°-90°	21.7	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°	10737.1	100.0
0°-180°	10737.1	100.0

Coefficient of Utilization



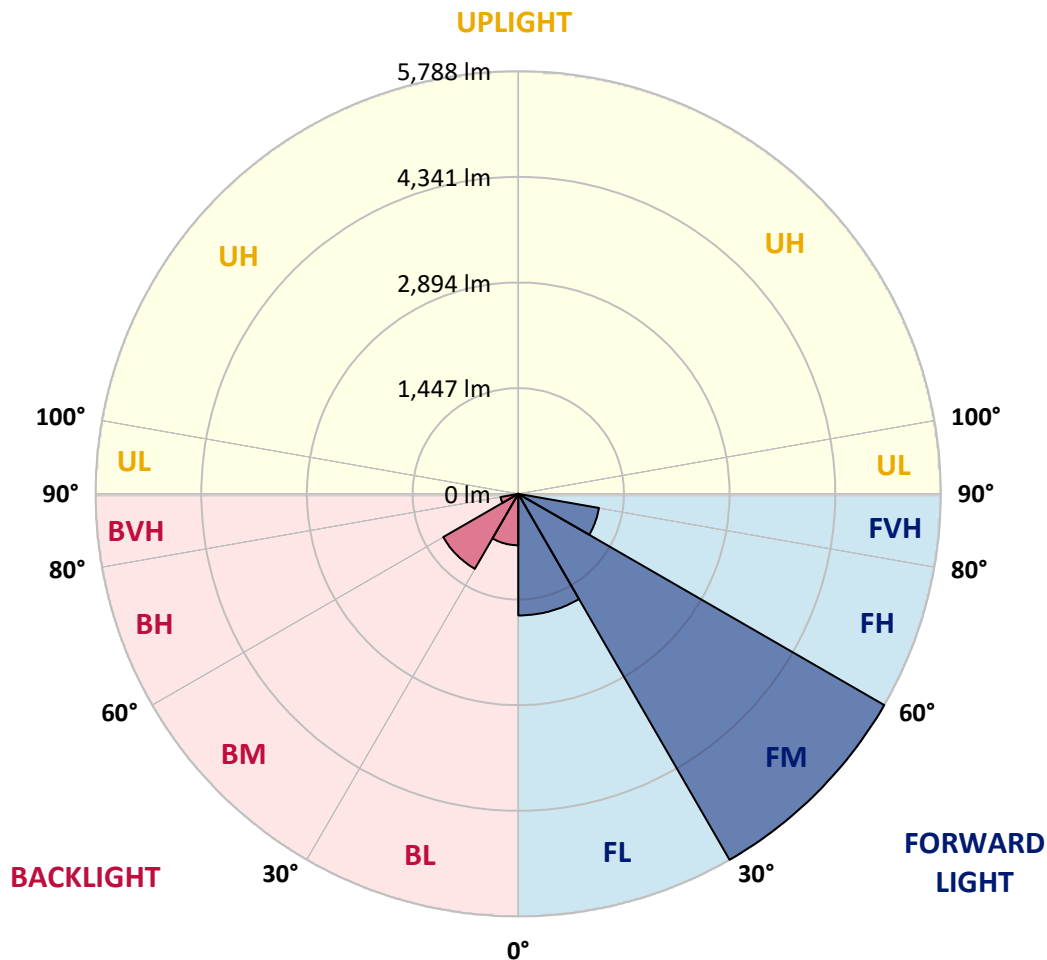
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.8	15.5			
FM (30°-60°)	5788.1	53.9			
FH (60°-80°)	1122.8	10.5			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	704.9	6.6	B2/1000		
BM (30°-60°)	1186.8	11.1	B2/2500		
BH (60°-80°)	247.0	2.3	B1/500		G1/500
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1
2.5°	5660.2	5572.9	5462.0	5370.5	5234.1	4959.3	4884.8	4795.3	4720.7	4620.6	4480.0
5°	5146.8	5119.1	5068.0	4722.9	4473.6	4141.3	3868.6	3753.6	3602.3	3478.8	3389.3
7.5°	4754.8	4644.1	4482.1	4134.9	3736.6	3380.8	3078.3	2901.4	2701.2	2633.1	2511.6
10°	4335.2	4360.8	4122.2	3634.3	3152.8	2865.3	2677.7	2507.4	2326.3	2207.0	2034.5
12.5°	4201.0	4117.9	3934.6	3331.8	2920.6	2652.2	2424.3	2213.3	2021.7	1829.9	1663.8
15°	4288.3	4160.4	3904.8	3267.9	2741.7	2407.2	2121.8	1836.3	1659.5	1414.5	1242.0
17.5°	4601.4	4499.2	4156.2	3336.1	2650.1	2172.9	1748.9	1455.0	1184.5	962.9	875.6
20°	5123.4	4978.5	4548.2	3423.4	2513.7	1889.6	1418.8	1056.6	801.0	707.3	658.3
22.5°	5634.6	5555.8	5012.6	3591.7	2392.3	1638.2	1065.1	711.5	598.6	581.6	549.6
25°	6608.2	6371.8	5722.0	3896.4	2298.6	1401.7	803.2	573.1	507.0	494.3	498.5
27.5°	7187.6	6989.5	6378.1	4098.7	2194.2	1220.6	679.5	526.2	481.5	453.7	443.1
30°	7743.6	7513.6	6704.0	4218.0	1970.5	1029.0	602.9	504.9	494.3	453.7	440.9
32.5°	8171.8	7946.0	7174.8	4396.9	1879.0	905.3	496.4	394.1	366.4	362.1	400.5
35°	8828.0	8587.2	7577.5	4494.9	1808.7	841.5	430.3	351.5	319.6	306.8	308.9
37.5°	9439.3	9275.3	7950.2	4533.2	1734.1	822.3	385.6	315.3	287.6	279.0	276.9
40°	9950.6	9584.2	8303.9	4573.8	1702.1	786.1	357.9	287.6	268.4	255.7	255.7
42.5°	10184.9	9812.1	8700.1	4550.3	1693.6	728.6	357.9	264.2	249.3	236.5	234.3
45°	10133.8	9982.6	8876.9	4539.6	1693.6	671.0	326.0	257.8	236.5	219.4	215.1
47.5°	10265.9	10067.8	9098.5	4584.4	1659.5	630.6	274.8	270.5	223.7	202.3	198.1
50°	10289.3	10327.6	9484.0	4816.6	1584.9	579.4	215.1	266.3	215.1	183.2	179.0
52°	10442.7	10204.1	9601.3	4940.1	1506.1	541.1	181.1	227.9	206.6	170.4	166.2
52.5°	10231.8	10387.4	9628.9	4984.9	1514.6	515.5	174.7	223.7	202.3	170.4	159.8
55°	9995.4	10144.5	9516.0	5080.7	1388.9	404.8	136.3	161.9	183.2	149.1	142.7
57.5°	8687.4	8838.6	8269.8	4652.6	1131.2	285.4	112.9	121.4	161.9	138.4	132.0
60°	7722.3	7613.7	6940.5	3881.4	803.2	159.8	89.5	93.8	176.8	127.8	125.7
62.5°	7057.7	6825.5	5800.8	2997.3	490.0	106.6	70.3	72.4	136.3	119.3	119.3
65°	5221.3	4961.5	3853.7	1812.9	240.7	74.6	53.2	57.5	85.2	102.3	102.3
67.5°	2980.3	2880.2	1861.9	818.0	100.2	46.8	40.5	44.7	66.0	83.1	78.8
70°	1369.8	1229.2	715.8	172.6	46.8	32.0	32.0	36.2	53.2	61.8	57.5
72.5°	400.5	379.2	174.7	27.7	19.2	19.2	21.3	27.7	40.5	46.8	42.6
75°	29.9	19.2	12.8	8.5	8.5	12.8	17.1	27.7	40.5	44.7	36.2
77.5°	2.1	4.3	2.1	2.1	6.4	12.8	19.2	34.1	53.2	55.4	40.5
80°	2.1	2.1	0.0	2.1	6.4	12.8	21.3	38.3	59.6	63.9	34.1
82.5°	0.0	0.0	0.0	2.1	8.5	17.1	25.6	40.5	55.4	68.2	36.2
85°	0.0	0.0	0.0	2.1	12.8	23.5	29.9	10.7	6.4	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°	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1
2.5°	4580.2	4524.7	4503.5	4522.6	4516.3	4509.9	4627.0	4601.4	4597.2	4635.5	4627.0
5°	3438.3	3340.3	3608.7	3500.1	3613.0	3681.1	3693.9	3700.3	3779.1	3696.0	3804.7
7.5°	2449.8	2475.4	2473.3	2545.7	2675.6	2790.7	2858.9	2805.6	2801.4	2790.7	2743.8
10°	1957.8	1913.0	1904.4	1887.5	1927.9	2025.9	2109.0	2043.0	1996.1	2060.0	2040.9
12.5°	1599.8	1538.1	1504.0	1435.8	1437.9	1504.0	1504.0	1504.0	1550.9	1587.1	1614.8
15°	1227.0	1175.9	1175.9	1107.8	1092.9	1095.0	1129.0	1133.3	1207.8	1229.2	1239.8
17.5°	858.5	830.8	862.8	890.5	873.5	877.7	890.5	894.7	905.3	896.8	918.1
20°	660.4	656.1	664.6	713.7	749.8	771.2	756.2	734.9	722.2	692.3	692.3
22.5°	560.3	568.8	583.7	624.2	671.0	683.8	666.7	617.8	579.4	575.2	577.3
25°	498.5	507.0	530.4	556.0	581.6	602.9	585.8	549.6	528.3	509.1	509.1
27.5°	460.1	464.4	477.2	496.4	517.6	534.7	528.3	509.1	485.7	477.2	458.0
30°	430.3	436.7	451.6	455.9	475.1	483.6	472.9	468.7	453.7	443.1	436.7
32.5°	415.4	413.3	423.9	428.2	430.3	436.7	423.9	430.3	428.2	411.2	404.8
35°	313.2	330.2	357.9	381.3	387.7	396.2	394.1	385.6	362.1	343.0	319.6
37.5°	281.2	291.8	306.8	326.0	351.5	362.1	357.9	336.6	308.9	296.1	291.8
40°	259.9	266.3	279.0	291.8	317.4	336.6	321.7	302.5	281.2	270.5	264.2
42.5°	240.7	242.9	249.3	262.1	281.2	311.0	285.4	259.9	251.4	245.0	240.7
45°	219.4	219.4	227.9	234.3	255.7	283.3	257.8	234.3	230.1	225.8	223.7
47.5°	202.3	204.5	208.7	217.3	234.3	253.5	236.5	217.3	206.6	204.5	200.2
50°	181.1	183.2	191.7	200.2	221.5	232.2	221.5	200.2	189.6	183.2	183.2
52°	164.0	170.4	179.0	196.0	210.9	227.9	215.1	191.7	179.0	172.6	168.3
52.5°	161.9	166.2	174.7	193.9	210.9	225.8	213.0	189.6	174.7	170.4	166.2
55°	144.8	151.2	166.2	189.6	208.7	225.8	208.7	187.5	166.2	155.5	151.2
57.5°	138.4	142.7	161.9	191.7	206.6	225.8	208.7	187.5	166.2	147.0	142.7
60°	132.0	140.6	161.9	185.4	204.5	227.9	210.9	185.4	161.9	138.4	138.4
62.5°	125.7	132.0	159.8	181.1	196.0	219.4	202.3	181.1	155.5	132.0	129.9
65°	108.7	119.3	140.6	151.2	168.3	189.6	172.6	157.6	136.3	117.2	115.0
67.5°	83.1	87.4	104.4	117.2	127.8	147.0	138.4	119.3	104.4	89.5	89.5
70°	57.5	61.8	74.6	81.0	91.6	102.3	95.9	81.0	70.3	61.8	59.6
72.5°	40.5	42.6	46.8	51.1	55.4	59.6	57.5	46.8	40.5	38.3	36.2
75°	32.0	36.2	38.3	36.2	34.1	32.0	32.0	27.7	23.5	21.3	21.3
77.5°	32.0	34.1	32.0	27.7	23.5	21.3	19.2	17.1	12.8	10.7	12.8
80°	27.7	27.7	27.7	23.5	21.3	19.2	17.1	14.9	12.8	10.7	10.7
82.5°	29.9	29.9	27.7	23.5	23.5	19.2	19.2	17.1	14.9	10.7	10.7
85°	0.0	0.0	0.0	4.3	10.7	19.2	19.2	17.1	14.9	12.8	12.8
87.5°	0.0	0.0	0.0	0.0	2.1	4.3	8.5	10.7	12.8	12.8	12.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1
2.5°	4703.7	4784.6	4938.0	5091.4	5185.1	5295.9	5496.2	5602.7	5741.2	5809.3	5943.5
5°	3789.8	3981.5	4049.7	4224.3	4411.8	4599.3	4897.6	5225.6	5498.3	5685.7	5928.6
7.5°	2765.1	2809.9	3074.0	3191.2	3498.0	3838.8	4245.7	4659.0	5004.0	5310.8	5496.2
10°	2072.8	2236.8	2403.0	2626.7	2873.8	3225.2	3615.1	4071.0	4518.4	4825.2	5059.5
12.5°	1665.9	1795.9	2017.4	2258.1	2562.8	2795.0	3186.9	3638.6	4218.0	4518.4	4827.3
15°	1261.2	1427.3	1678.6	1927.9	2249.6	2494.6	2890.9	3459.6	4205.2	4618.5	4884.8
17.5°	935.2	1048.1	1273.9	1553.0	1881.1	2226.1	2760.8	3440.4	4348.0	4840.0	5114.9
20°	715.8	754.1	896.8	1146.1	1501.9	1953.5	2550.0	3523.5	4769.7	5379.0	5658.1
22.5°	579.4	596.5	651.9	824.4	1169.5	1714.9	2449.8	3581.1	5244.8	6024.5	6397.3
25°	504.9	500.6	536.8	611.4	913.9	1491.2	2322.0	3798.3	5826.4	6782.8	7117.3
27.5°	460.1	460.1	477.2	530.4	758.4	1346.4	2241.1	3953.8	6412.2	7449.7	7630.7
30°	436.7	440.9	490.0	507.0	630.6	1173.8	2106.9	4111.5	6972.5	7875.7	8125.0
32.5°	404.8	387.7	377.1	419.7	530.4	1018.3	1972.6	4177.5	7426.2	8397.6	8610.7
35°	311.0	302.5	315.3	347.2	455.9	886.2	1823.5	4252.1	7948.1	9002.7	9045.2
37.5°	281.2	279.0	287.6	315.3	383.4	771.2	1717.0	4232.9	8346.5	9503.2	9388.3
40°	259.9	259.9	266.3	289.7	343.0	690.2	1606.2	4215.8	8732.1	10065.7	9729.0
42.5°	242.9	242.9	253.5	268.4	326.0	637.0	1523.1	4192.4	9055.9	10410.7	9929.4
45°	219.4	225.8	242.9	257.8	330.2	600.7	1461.4	4103.0	9166.6	10406.5	9833.5
47.5°	202.3	210.9	227.9	249.3	298.2	590.1	1418.8	4024.1	9128.3	10150.9	9533.1
50°	183.2	193.9	217.3	253.5	253.5	568.8	1374.0	4094.4	9100.6	9952.7	9245.4
52°	170.4	179.0	208.7	247.1	221.5	524.0	1346.4	4230.7	9213.5	9927.2	9117.7
52.5°	168.3	174.7	202.3	242.9	210.9	515.5	1327.2	4262.7	9249.7	9863.2	9205.0
55°	149.1	157.6	185.4	189.6	172.6	423.9	1265.4	4335.2	9070.8	9737.6	9121.9
57.5°	140.6	144.8	164.0	155.5	149.1	319.6	1088.6	4222.2	8056.8	8649.0	8487.1
60°	129.9	134.2	153.4	121.4	125.7	223.7	818.0	3666.3	6469.7	7206.8	7498.6
62.5°	125.7	123.5	144.8	98.0	106.6	161.9	577.3	2980.3	4984.9	5932.8	6437.8
65°	110.8	108.7	104.4	83.1	91.6	125.7	345.1	1945.0	3512.9	4488.5	4765.4
67.5°	85.2	89.5	76.7	66.0	76.7	98.0	191.7	871.3	1842.7	2692.7	2916.3
70°	59.6	63.9	61.8	57.5	68.2	81.0	110.8	298.2	762.6	1414.5	1559.4
72.5°	36.2	44.7	46.8	49.0	59.6	70.3	78.8	95.9	202.3	500.6	622.1
75°	21.3	29.9	36.2	42.6	49.0	59.6	66.0	68.2	70.3	93.8	151.2
77.5°	14.9	21.3	32.0	40.5	49.0	59.6	70.3	74.6	70.3	66.0	70.3
80°	12.8	21.3	29.9	38.3	51.1	61.8	70.3	70.3	68.2	59.6	63.9
82.5°	12.8	21.3	32.0	40.5	49.0	59.6	68.2	70.3	63.9	59.6	61.8
85°	14.9	23.5	34.1	42.6	53.2	49.0	44.7	36.2	34.1	27.7	29.9
87.5°	14.9	21.3	21.3	23.5	25.6	25.6	25.6	23.5	19.2	17.1	17.1
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°	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1
2.5°	5949.9	6120.4	6114.0	6118.2	6092.6	5920.1	5837.0	5626.1	5685.7	5660.2
5°	6177.8	6346.2	6491.0	6473.9	6278.0	6043.7	5696.4	5368.4	5278.9	5146.8
7.5°	5949.9	6354.7	6488.9	6469.7	6180.0	5879.6	5325.7	4997.6	4842.1	4754.8
10°	5587.8	6056.5	6222.6	6256.7	6060.7	5604.8	5095.7	4569.5	4486.4	4335.2
12.5°	5381.1	5722.0	5824.3	5915.8	5847.6	5506.8	4920.9	4416.1	4301.0	4201.0
15°	5212.9	5415.2	5457.8	5562.2	5602.7	5419.5	5012.6	4582.3	4298.9	4288.3
17.5°	5368.4	5285.3	5129.8	5161.7	5289.6	5421.6	5249.0	4910.3	4635.5	4601.4
20°	5626.1	5259.7	4908.2	4987.0	5093.5	5498.3	5606.9	5368.4	5210.7	5123.4
22.5°	5922.2	5304.4	4837.9	4876.3	5078.6	5670.9	6186.4	6054.3	5760.3	5634.6
25°	6469.7	5428.0	4893.3	4918.8	5195.8	5911.6	6710.4	6808.4	6633.7	6608.2
27.5°	7004.4	5747.6	5014.7	4957.2	5255.4	6145.9	7027.8	7554.0	7247.2	7187.6
30°	7277.1	6007.4	5195.8	5097.8	5502.6	6288.7	7219.6	8039.7	7771.3	7743.6
32.5°	7694.6	6243.9	5336.4	5210.7	5641.0	6465.4	7577.5	8570.2	8310.3	8171.8
35°	7869.3	6501.7	5645.3	5498.3	6037.3	6712.5	7760.7	9043.1	8962.1	8828.0
37.5°	8205.9	6778.6	6009.5	6001.0	6516.6	7034.2	8090.8	9686.5	9671.6	9439.3
40°	8233.6	7081.1	6584.8	6853.1	7257.9	7594.5	8380.6	9865.4	10108.2	9950.6
42.5°	8276.2	7611.6	7579.6	7801.1	8148.4	8076.0	8391.2	9908.0	10278.7	10184.9
45°	8295.4	8142.0	8591.5	9000.5	9145.4	8706.5	8291.1	9827.1	10368.2	10133.8
47.5°	8142.0	8597.9	9409.5	10199.8	10242.5	9094.2	8248.5	9744.0	10421.4	10265.9
50°	8163.3	8883.3	10116.8	10824.0	10668.5	9437.2	8182.4	9692.9	10393.8	10289.3
52°	8112.2	8889.7	10216.9	10811.2	10702.6	9247.6	8069.6	9496.8	10368.2	10442.7
52.5°	8169.7	8851.4	10112.5	10819.8	10679.2	9341.3	8054.7	9605.5	10383.1	10231.8
55°	7971.6	8395.5	9501.1	9801.5	9780.2	8478.5	7596.7	9245.4	9993.2	9995.4
57.5°	7204.7	7277.1	7451.8	7445.4	7347.4	6665.7	6497.4	8502.0	8908.9	8687.4
60°	6348.3	5327.9	4857.1	4665.4	4556.7	4445.9	5747.6	7777.7	7816.1	7722.3
62.5°	5485.5	3693.9	3067.6	3014.4	3040.0	3444.7	5555.8	7490.1	7260.0	7057.7
65°	4426.8	2692.7	2228.3	2158.0	2407.2	2843.9	4497.1	5743.3	5389.6	5221.3
67.5°	2780.0	1964.2	1506.1	1374.0	1674.4	1957.8	2954.7	3608.7	3212.5	2980.3
70°	1648.9	1097.1	681.7	611.4	688.1	1043.8	1655.3	1800.1	1489.1	1369.8
72.5°	649.8	402.6	189.6	161.9	168.3	366.4	609.3	594.3	449.5	400.5
75°	174.7	121.4	66.0	53.2	44.7	68.2	98.0	63.9	23.5	29.9
77.5°	81.0	72.4	57.5	44.7	34.1	25.6	12.8	4.3	4.3	2.1
80°	70.3	61.8	53.2	44.7	34.1	21.3	10.7	2.1	2.1	2.1
82.5°	66.0	57.5	49.0	40.5	32.0	21.3	10.7	2.1	0.0	0.0
85°	27.7	36.2	40.5	38.3	34.1	21.3	10.7	2.1	0.0	0.0
87.5°	14.9	12.8	10.7	8.5	6.4	4.3	4.3	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)