

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: P529041

Luminaire Tested: **GALN-SA4A-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7948 lumens
Efficiency: N/A
Efficacy: 65.7 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): 121
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

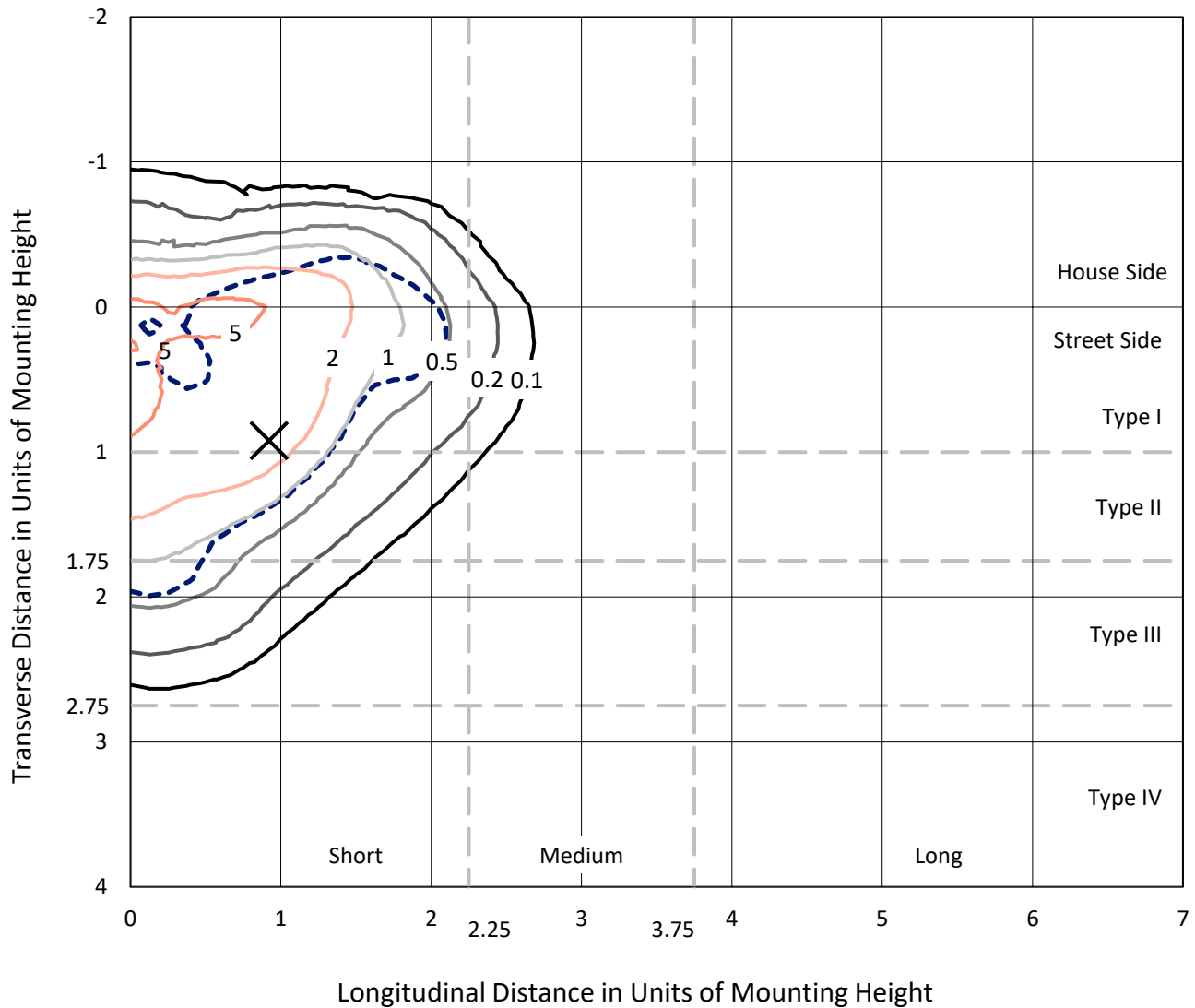


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Iso-Footcandle Lines of Horizontal Illumination

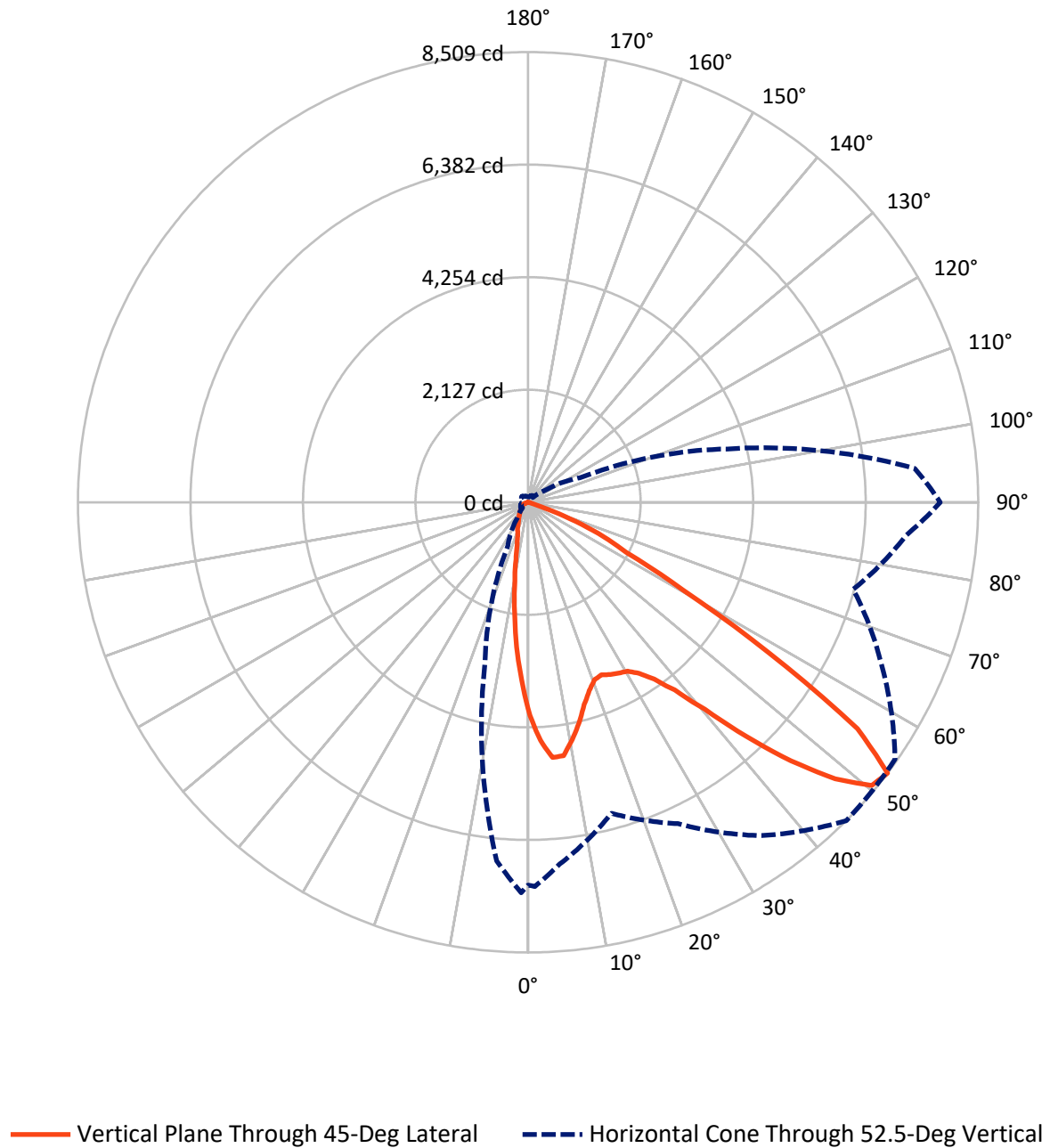
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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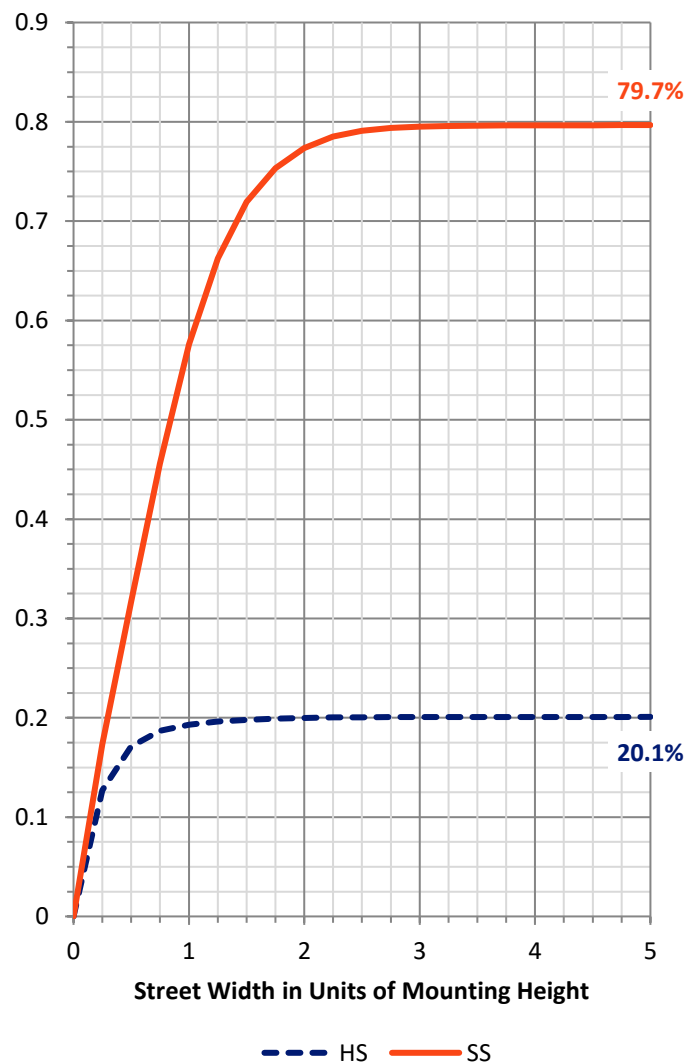
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.1	0.0	1613.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6335.0	0.0	6335.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	7948.0	0.0	7948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	3.7
10°-20°	579.9	7.3
20°-30°	882.4	11.1
30°-40°	1318.9	16.6
40°-50°	1878.3	23.6
50°-60°	2019.1	25.4
60°-70°	894.7	11.3
70°-80°	72.4	0.9
80°-90°	8.4	0.1
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°	7948.0	100.0
0°-180°	7948.0	100.0

Coefficient of Utilization



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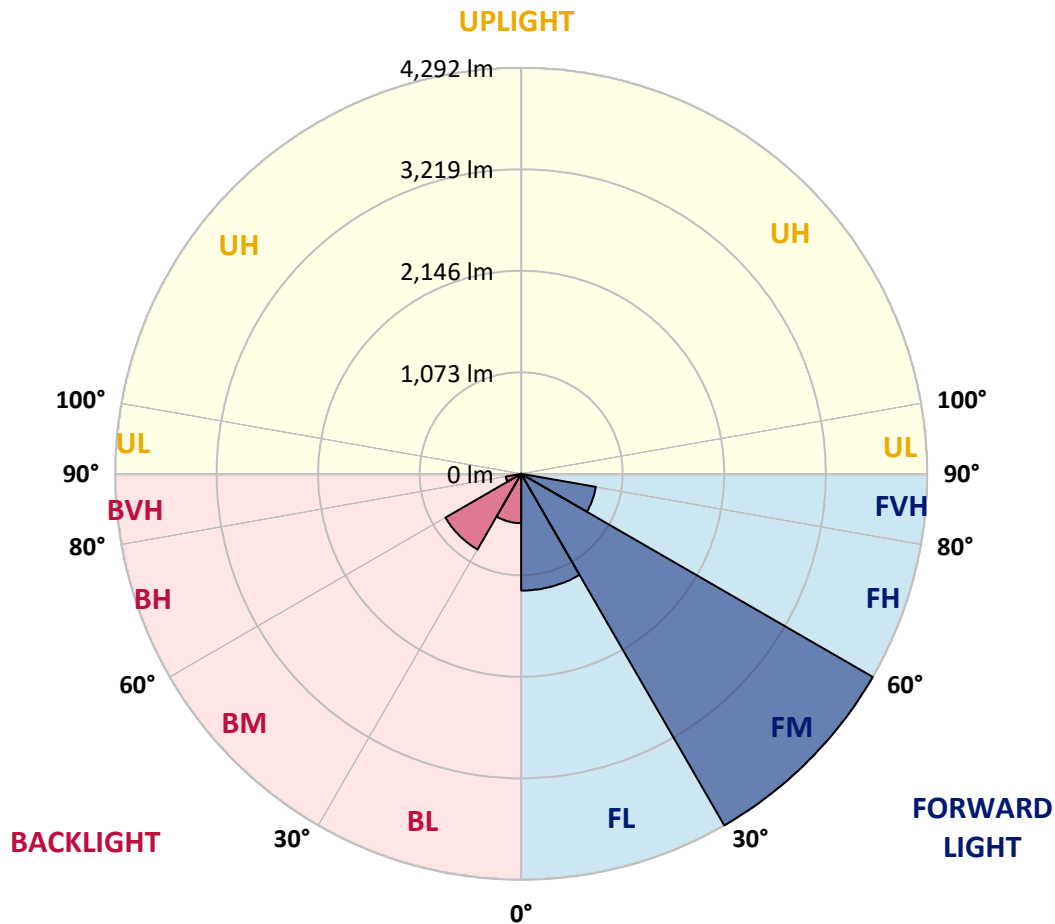
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1234.5	15.5			
FM	(30°-60°)	4292.2	54.0			
FH	(60°-80°)	802.0	10.1			G1/1800
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	521.7	6.6	B2/1000		
BM	(30°-60°)	924.1	11.6	B1/1000		
BH	(60°-80°)	165.0	2.1	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
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°	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0
2.5°	4264.5	4277.0	4345.8	4431.8	4477.1	4580.3	4508.4	4527.1	4488.0	4350.5	4242.6
5°	4134.7	4133.2	4220.7	4433.3	4635.0	4839.8	4846.0	4736.6	4544.3	4333.3	4031.6
7.5°	3743.9	3804.9	3895.6	4234.8	4608.4	4761.6	4835.1	4706.9	4411.4	4109.7	3783.0
10°	3448.5	3479.7	3632.9	4042.5	4316.1	4520.9	4566.2	4492.7	4266.1	3889.3	3523.5
12.5°	3278.1	3293.7	3473.5	3817.4	4106.6	4258.2	4280.1	4314.5	4151.9	3798.6	3359.4
15°	3279.7	3292.2	3534.5	3822.1	3936.2	3895.6	3967.5	3965.9	4036.3	3781.5	3496.9
17.5°	3515.7	3529.8	3748.6	3890.9	3840.9	3745.5	3740.8	3812.7	3961.2	3995.6	3704.9
20°	3922.1	3955.0	4116.0	4108.2	3826.8	3634.5	3581.4	3636.1	3981.5	4176.9	4123.8
22.5°	4469.3	4514.6	4627.2	4411.4	3890.9	3559.5	3542.3	3648.6	4116.0	4581.8	4599.0
25°	5103.9	5180.5	5235.3	4958.6	4119.1	3689.2	3607.9	3790.8	4297.3	5021.1	5204.0
27.5°	5524.5	5604.2	5591.7	5196.2	4272.3	3723.6	3654.8	3825.2	4455.2	5125.8	5519.8
30°	5852.7	5901.2	5988.7	5324.4	4425.5	3820.5	3703.3	3970.6	4506.8	5307.2	5901.2
32.5°	6235.7	6268.5	6274.8	5551.0	4661.6	3942.5	3853.4	4151.9	4735.0	5480.7	6238.8
35°	6621.8	6670.3	6568.7	5830.8	4806.9	4169.1	4103.5	4466.1	4917.9	5660.5	6610.9
37.5°	7040.8	7065.8	6831.3	5946.5	5014.8	4538.1	4502.1	4805.4	5235.3	5985.6	7023.6
40°	7392.5	7416.0	7111.1	6088.8	5233.7	5053.9	5146.2	5452.5	5666.7	6196.6	7229.9
42.5°	7587.9	7642.6	7204.9	6010.6	5673.0	5638.6	6048.1	6156.0	6166.9	6256.0	7414.4
45°	7641.1	7616.1	7050.2	6074.7	6057.5	6600.0	6972.0	7114.3	6664.0	6365.5	7461.3
47.5°	7395.6	7428.5	6821.9	6018.4	6562.4	7328.4	7809.9	8074.1	7034.5	6270.1	7345.6
50°	7197.1	7154.9	6748.5	5977.8	6698.4	7672.3	8414.9	8474.3	7375.3	6387.4	7219.0
52.5°	7236.2	7262.8	6865.7	6085.7	6701.6	7692.7	8508.7	8468.0	7386.3	6360.8	7173.7
55°	7319.0	7201.8	6815.7	5848.0	6252.9	7125.2	7552.0	7489.4	6817.2	6077.8	7062.7
57.5°	6315.4	6496.8	6267.0	5221.2	5132.1	5368.1	5360.3	5552.6	5085.2	5230.6	6429.6
60°	5125.8	5157.1	5243.1	4466.1	3551.7	3470.4	3357.8	3235.9	3421.9	4472.4	5848.0
62.5°	4508.4	4470.8	4777.2	4062.8	2507.4	2099.4	2080.7	2155.7	2640.3	4266.1	5485.4
65°	3276.5	3323.4	3545.4	3153.0	1882.1	1602.3	1574.2	1796.2	2136.9	3418.8	4186.3
67.5°	2000.9	2091.6	2111.9	1944.7	1277.2	1014.5	973.9	1175.5	1542.9	2212.0	2454.3
70°	923.9	1033.3	1136.5	1061.4	739.4	417.4	393.9	494.0	778.5	1272.5	1302.2
72.5°	279.8	281.4	393.9	411.1	239.2	93.8	82.9	109.4	264.2	420.5	442.4
75°	20.3	21.9	53.1	61.0	45.3	23.4	25.0	29.7	56.3	93.8	70.3
77.5°	1.6	1.6	1.6	7.8	14.1	15.6	20.3	23.4	29.7	34.4	31.3
80°	1.6	0.0	1.6	6.3	10.9	15.6	18.8	21.9	23.4	26.6	23.4
82.5°	0.0	0.0	0.0	4.7	10.9	15.6	17.2	23.4	26.6	31.3	26.6
85°	0.0	0.0	0.0	4.7	10.9	17.2	15.6	7.8	0.0	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°	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0
2.5°	4261.4	4200.4	4061.3	3990.9	3825.2	3801.8	3639.2	3612.6	3557.9	3528.2	3456.3
5°	3898.7	3825.2	3598.6	3407.8	3185.9	3031.1	2912.3	2804.4	2741.9	2684.1	2710.6
7.5°	3603.2	3389.1	3137.4	2818.5	2562.1	2396.4	2215.1	2066.6	1979.0	1919.6	1933.7
10°	3293.7	3154.6	2804.4	2446.5	2136.9	2019.7	1877.4	1763.3	1639.8	1533.5	1483.5
12.5°	3196.8	2990.5	2551.2	2187.0	1952.5	1838.4	1675.8	1544.5	1386.6	1256.8	1211.5
15°	3214.0	3015.5	2482.4	2093.2	1816.5	1619.5	1425.7	1263.1	1089.6	998.9	952.0
17.5°	3493.8	3149.9	2527.7	1994.7	1627.3	1353.8	1114.6	908.2	778.5	684.7	664.4
20°	3837.7	3440.7	2624.7	1922.8	1472.6	1077.1	814.4	636.2	528.4	512.7	508.0
22.5°	4341.1	3915.9	2832.6	1874.3	1283.4	839.5	558.1	462.7	433.0	429.9	431.5
25°	5044.5	4511.5	3059.2	1833.7	1141.2	647.2	456.5	392.4	383.0	378.3	386.1
27.5°	5349.4	4871.0	3179.6	1746.1	1011.4	583.1	450.2	389.2	362.7	354.9	359.5
30°	5726.1	5110.2	3368.8	1596.1	820.7	479.9	420.5	423.6	411.1	372.0	359.5
32.5°	6226.3	5408.8	3464.1	1489.8	733.2	397.1	308.0	282.9	315.8	322.0	333.0
35°	6546.8	5712.0	3512.6	1427.2	687.8	339.2	261.1	237.6	229.8	231.4	237.6
37.5°	7142.4	6121.6	3573.5	1361.6	653.4	295.5	236.0	214.2	203.2	203.2	209.5
40°	7498.8	6446.8	3656.4	1325.6	619.0	268.9	214.2	195.4	186.0	186.0	189.2
42.5°	7587.9	6607.8	3628.3	1313.1	580.0	262.6	195.4	181.3	170.4	168.8	167.3
45°	7747.4	6853.2	3632.9	1299.0	539.3	239.2	184.5	168.8	153.2	151.6	150.1
47.5°	7922.4	7029.8	3642.3	1244.3	500.2	200.1	192.3	156.3	137.6	134.4	134.4
50°	7772.4	7170.5	3723.6	1189.6	450.2	162.6	189.2	146.9	121.9	117.2	118.8
52.5°	7791.1	7336.2	3895.6	1113.0	387.7	129.7	153.2	139.1	111.0	103.2	104.7
55°	7491.0	7161.2	3919.0	1031.7	303.3	100.0	117.2	121.9	93.8	90.7	90.7
57.5°	6448.3	6063.8	3457.9	836.3	200.1	82.9	84.4	106.3	81.3	78.2	79.7
60°	5518.2	4867.9	2782.5	551.8	125.1	65.7	61.0	107.9	71.9	70.3	75.0
62.5°	5030.5	4000.3	2110.4	342.3	86.0	50.0	42.2	87.5	62.5	62.5	68.8
65°	3634.5	2687.2	1227.1	179.8	61.0	39.1	31.3	50.0	51.6	53.1	56.3
67.5°	2251.1	1356.9	517.4	87.5	40.6	26.6	20.3	31.3	34.4	34.4	37.5
70°	1111.5	540.9	172.0	50.0	31.3	21.9	14.1	17.2	17.2	15.6	17.2
72.5°	343.9	162.6	43.8	31.3	21.9	14.1	7.8	6.3	3.1	0.0	1.6
75°	39.1	31.3	28.1	21.9	14.1	6.3	1.6	0.0	0.0	0.0	0.0
77.5°	23.4	26.6	26.6	21.9	14.1	4.7	0.0	0.0	0.0	0.0	0.0
80°	18.8	20.3	21.9	20.3	12.5	6.3	0.0	0.0	0.0	0.0	0.0
82.5°	23.4	26.6	29.7	26.6	17.2	7.8	3.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.7	1.6	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0
2.5°	3426.6	3392.2	3440.7	3368.8	3367.2	3368.8	3348.4	3329.7	3359.4	3439.1	3446.9
5°	2615.3	2688.8	2712.2	2788.8	2746.6	2684.1	2696.6	2654.4	2757.5	2802.9	2766.9
7.5°	1904.0	1899.3	2057.2	2066.6	2086.9	2088.5	2085.3	2002.5	1918.1	1936.8	1993.1
10°	1477.3	1397.5	1474.1	1466.3	1516.3	1502.3	1522.6	1433.5	1463.2	1463.2	1499.1
12.5°	1203.7	1119.3	1105.2	1084.9	1105.2	1113.0	1120.8	1103.6	1153.7	1177.1	1202.1
15°	919.2	872.3	859.8	820.7	826.9	848.8	867.6	875.4	859.8	895.7	898.9
17.5°	667.5	665.9	673.8	672.2	665.9	661.2	659.7	639.4	633.1	636.2	648.7
20°	506.5	519.0	545.6	572.1	586.2	569.0	545.6	511.2	497.1	500.2	501.8
22.5°	433.0	451.8	487.7	517.4	531.5	500.2	458.0	428.3	422.1	420.5	418.9
25°	392.4	414.3	440.8	450.2	448.6	429.9	398.6	386.1	383.0	379.9	365.8
27.5°	370.5	378.3	383.0	393.9	398.6	386.1	378.3	359.5	356.4	356.4	347.0
30°	358.0	353.3	359.5	351.7	358.0	348.6	350.2	350.2	342.3	345.5	345.5
32.5°	333.0	334.5	334.5	318.9	323.6	312.6	323.6	333.0	334.5	336.1	348.6
35°	243.9	272.0	286.1	286.1	290.8	282.9	281.4	270.4	256.4	242.3	236.0
37.5°	214.2	225.1	243.9	254.8	262.6	256.4	242.3	225.1	217.3	211.0	204.8
40°	190.7	200.1	212.6	225.1	240.7	232.9	211.0	203.2	193.8	193.8	187.6
42.5°	172.0	176.6	184.5	203.2	220.4	204.8	189.2	182.9	178.2	176.6	175.1
45°	154.8	156.3	164.1	179.8	200.1	184.5	168.8	161.0	162.6	164.1	162.6
47.5°	139.1	142.3	146.9	165.7	178.2	170.4	153.2	148.5	148.5	148.5	150.1
50°	120.4	128.2	137.6	153.2	162.6	157.9	143.8	137.6	134.4	134.4	136.0
52.5°	107.9	114.1	126.6	145.4	157.9	150.1	136.0	126.6	120.4	118.8	121.9
55°	93.8	104.7	125.1	139.1	156.3	148.5	132.9	121.9	111.0	109.4	109.4
57.5°	84.4	101.6	120.4	137.6	151.6	145.4	132.9	118.8	104.7	103.2	103.2
60°	79.7	98.5	117.2	132.9	151.6	142.3	131.3	115.7	100.0	100.0	98.5
62.5°	75.0	92.2	111.0	126.6	145.4	137.6	126.6	111.0	95.4	95.4	92.2
65°	62.5	79.7	92.2	106.3	126.6	118.8	107.9	96.9	84.4	81.3	82.9
67.5°	43.8	54.7	67.2	81.3	93.8	90.7	86.0	78.2	67.2	65.7	64.1
70°	21.9	29.7	40.6	54.7	65.7	62.5	59.4	53.1	46.9	45.3	45.3
72.5°	3.1	9.4	17.2	25.0	34.4	36.0	34.4	32.8	31.3	29.7	31.3
75°	0.0	0.0	0.0	6.3	14.1	17.2	20.3	23.4	23.4	20.3	25.0
77.5°	0.0	0.0	0.0	0.0	1.6	7.8	15.6	20.3	25.0	21.9	29.7
80°	0.0	0.0	0.0	0.0	1.6	9.4	15.6	21.9	25.0	21.9	31.3
82.5°	0.0	0.0	0.0	0.0	1.6	10.9	15.6	20.3	23.4	21.9	28.1
85°	0.0	0.0	0.0	0.0	4.7	9.4	6.3	3.1	1.6	1.6	4.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0	4030.0
2.5°	3490.7	3601.7	3720.5	3765.8	3906.5	4012.8	4084.7	4239.5	4262.9	4264.5
5°	2804.4	2860.7	3063.9	3159.3	3368.8	3531.3	3704.9	3955.0	4122.2	4134.7
7.5°	1993.1	2149.4	2235.4	2484.0	2741.9	2996.7	3254.6	3545.4	3739.2	3743.9
10°	1603.9	1705.5	1858.7	2044.7	2262.0	2521.5	2865.4	3203.1	3400.0	3448.5
12.5°	1291.2	1469.4	1644.5	1836.8	2002.5	2197.9	2568.4	3018.6	3181.2	3278.1
15°	994.2	1156.8	1363.1	1588.2	1775.8	2036.9	2459.0	2973.3	3246.8	3279.7
17.5°	733.2	878.5	1069.2	1281.8	1563.2	1933.7	2477.7	3203.1	3461.0	3515.7
20°	526.8	611.2	761.3	1008.3	1366.3	1813.3	2496.5	3436.0	3828.3	3922.1
22.5°	417.4	451.8	550.3	769.1	1145.8	1686.7	2629.4	3881.5	4333.3	4469.3
25°	362.7	381.4	428.3	606.5	1006.7	1674.2	2842.0	4416.1	5005.5	5103.9
27.5°	350.2	353.3	393.9	556.5	931.7	1591.4	2923.2	4796.0	5424.4	5524.5
30°	368.9	418.9	422.1	470.5	792.6	1427.2	2965.4	5163.3	5779.3	5852.7
32.5°	318.9	303.3	314.2	364.2	697.2	1331.9	3045.2	5483.8	6184.1	6235.7
35°	222.0	232.9	257.9	315.8	609.7	1231.8	3065.5	5837.1	6568.7	6621.8
37.5°	204.8	211.0	231.4	268.9	536.2	1175.5	3037.4	6095.0	6967.3	7040.8
40°	190.7	198.5	209.5	243.9	481.5	1113.0	2998.3	6328.0	7211.2	7392.5
42.5°	179.8	186.0	195.4	232.9	434.6	1050.5	2943.6	6656.2	7430.0	7587.9
45°	167.3	176.6	187.6	226.7	408.0	1008.3	2902.9	6635.9	7556.7	7641.1
47.5°	154.8	170.4	182.9	211.0	400.2	988.0	2920.1	6559.3	7453.5	7395.6
50°	142.3	162.6	184.5	175.1	381.4	947.3	2940.4	6664.0	7208.1	7197.1
52.5°	131.3	154.8	172.0	143.8	339.2	908.2	3137.4	6801.6	7381.6	7236.2
55°	115.7	139.1	137.6	115.7	275.1	878.5	3292.2	6804.7	7264.3	7319.0
57.5°	104.7	123.5	107.9	96.9	203.2	734.7	3040.5	5705.8	6218.5	6315.4
60°	96.9	120.4	81.3	76.6	132.9	529.9	2654.4	4419.2	4942.9	5125.8
62.5°	89.1	114.1	64.1	62.5	92.2	376.7	2182.3	3698.6	4259.8	4508.4
65°	78.2	81.3	51.6	48.5	65.7	203.2	1328.7	2546.5	3184.3	3276.5
67.5°	64.1	62.5	42.2	39.1	43.8	98.5	586.2	1275.6	1846.2	2000.9
70°	51.6	51.6	36.0	31.3	31.3	45.3	153.2	508.0	834.8	923.9
72.5°	37.5	39.1	28.1	25.0	23.4	21.9	25.0	101.6	218.9	279.8
75°	32.8	34.4	28.1	21.9	17.2	14.1	10.9	9.4	12.5	20.3
77.5°	36.0	36.0	29.7	20.3	15.6	10.9	6.3	3.1	3.1	1.6
80°	45.3	46.9	39.1	26.6	18.8	12.5	7.8	3.1	1.6	1.6
82.5°	48.5	53.1	43.8	32.8	23.4	14.1	7.8	1.6	0.0	0.0
85°	12.5	20.3	34.4	29.7	23.4	14.1	7.8	1.6	0.0	0.0
87.5°	0.0	1.6	4.7	4.7	6.3	6.3	4.7	1.6	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)