

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: P533021

Luminaire Tested: **GALN-SA8B-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533021
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-SA8B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 20185 lumens
Efficiency: N/A
Efficacy: 62.1 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): 325
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



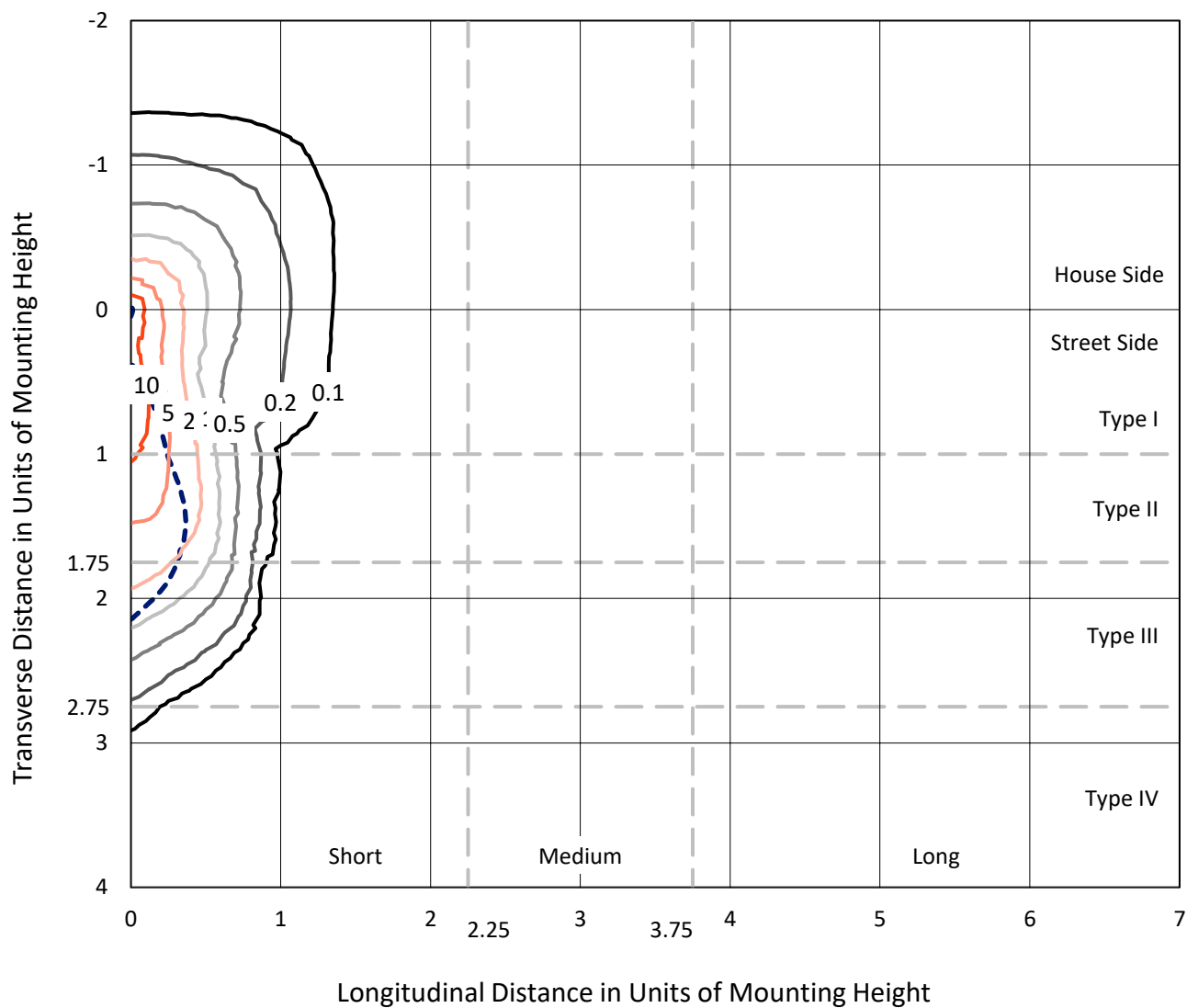
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



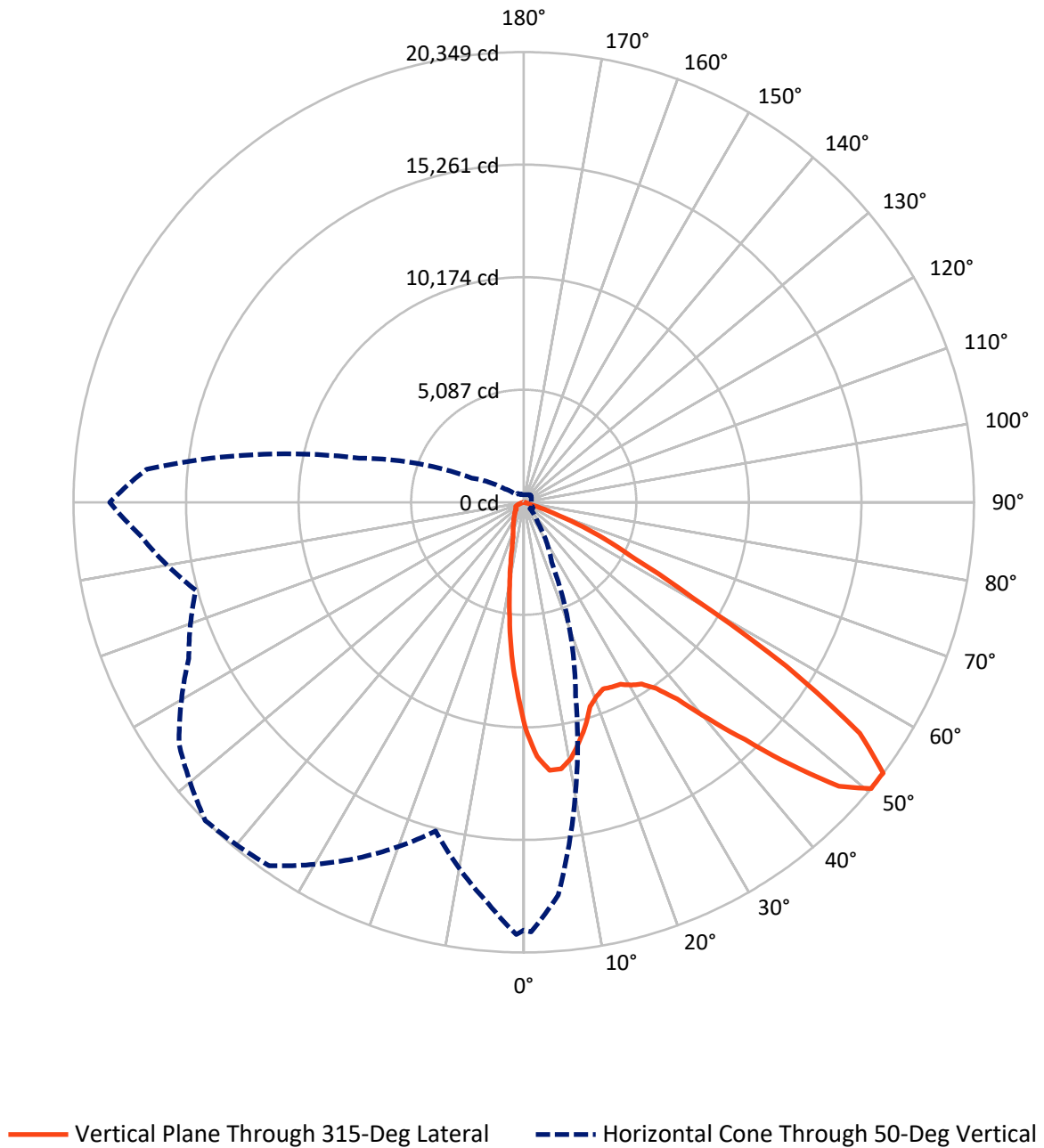
Based on 25 foot mounting height. Maximum calculated value = 16.4 fc

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	4043.1	0.0	4043.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	16141.9	0.0	16141.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	20185.0	0.0	20185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.1	3.7
10°-20°	1482.9	7.3
20°-30°	2227.7	11.0
30°-40°	3343.8	16.6
40°-50°	4699.4	23.3
50°-60°	5069.2	25.1
60°-70°	2353.6	11.7
70°-80°	221.4	1.1
80°-90°	40.8	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°	20185.0	100.0
0°-180°	20185.0	100.0

Coefficient of Utilization



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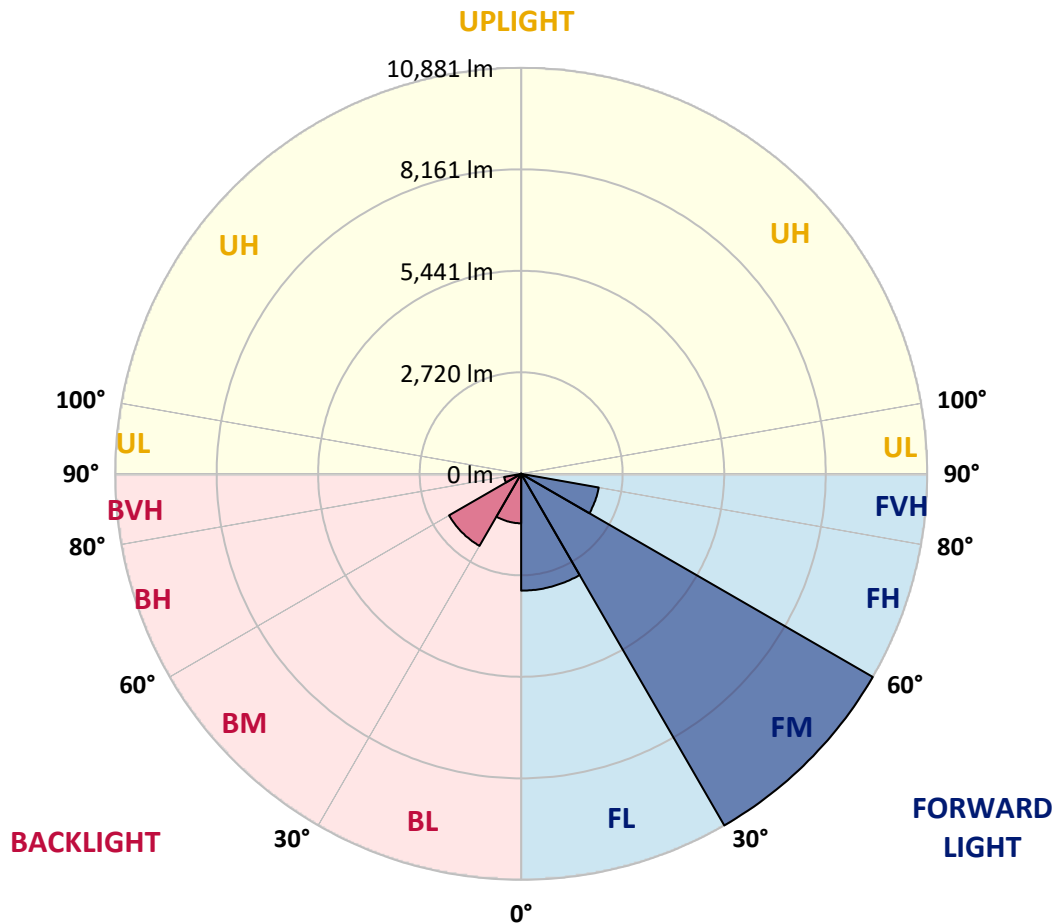
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3131.5	15.5			
FM	(30°-60°)	10881.2	53.9			
FH	(60°-80°)	2110.8	10.5			G2/5000
FVH	(80°-90°)	18.4	0.1			G1/100
BL	(0°-30°)	1325.2	6.6	B3/2500		
BM	(30°-60°)	2231.2	11.1	B2/2500		
BH	(60°-80°)	464.2	2.3	B1/500		G1/500
BVH	(80°-90°)	22.4	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°	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3
2.5°	10640.8	10476.6	10268.4	10096.2	9839.9	9323.2	9183.1	9014.9	8874.7	8686.5	8422.2
5°	9675.7	9623.6	9527.5	8878.7	8410.1	7785.4	7272.8	7056.5	6772.2	6539.9	6371.7
7.5°	8938.8	8730.5	8426.2	7773.4	7024.5	6355.7	5787.0	5454.6	5078.1	4950.0	4721.7
10°	8149.8	8197.9	7749.3	6832.2	5927.1	5386.5	5034.1	4713.7	4373.3	4149.0	3824.6
12.5°	7897.5	7741.3	7396.9	6263.6	5490.6	4986.0	4557.5	4161.0	3800.6	3440.1	3127.8
15°	8061.7	7821.4	7340.8	6143.4	5154.2	4525.5	3988.8	3452.2	3119.8	2659.2	2334.8
17.5°	8650.4	8458.2	7813.4	6271.6	4982.0	4084.9	3288.0	2735.3	2226.7	1810.2	1646.0
20°	9631.6	9359.3	8550.3	6435.8	4725.7	3552.3	2667.2	1986.4	1505.8	1329.6	1237.5
22.5°	10592.8	10444.6	9423.4	6752.1	4497.4	3079.7	2002.4	1337.6	1125.4	1093.3	1033.2
25°	12423.0	11978.4	10757.0	7324.8	4321.2	2635.2	1509.8	1077.3	953.1	929.1	937.1
27.5°	13512.3	13139.8	11990.5	7705.3	4125.0	2294.8	1277.5	989.2	905.1	853.0	833.0
30°	14557.5	14125.0	12603.2	7929.6	3704.5	1934.3	1133.4	949.1	929.1	853.0	829.0
32.5°	15362.5	14938.0	13488.3	8266.0	3532.3	1702.1	933.1	740.9	688.8	680.8	752.9
35°	16596.0	16143.5	14245.2	8450.2	3400.1	1581.9	809.0	660.8	600.7	576.7	580.7
37.5°	17745.4	17437.0	14946.0	8522.3	3259.9	1545.9	724.9	592.7	540.7	524.6	520.6
40°	18706.5	18017.7	15610.8	8598.4	3199.9	1477.8	672.8	540.7	504.6	480.6	480.6
42.5°	19147.1	18446.2	16355.7	8554.3	3183.8	1369.7	672.8	496.6	468.6	444.5	440.5
45°	19051.0	18766.6	16688.1	8534.3	3183.8	1261.5	612.7	484.6	444.5	412.5	404.5
47.5°	19299.3	18926.8	17104.6	8618.4	3119.8	1185.4	516.6	508.6	420.5	380.5	372.4
50°	19343.3	19415.4	17829.5	9054.9	2979.6	1089.3	404.5	500.6	404.5	344.4	336.4
52°	19631.7	19183.1	18049.8	9287.2	2831.4	1017.2	340.4	428.5	388.5	320.4	312.4
52.5°	19235.2	19527.5	18101.8	9371.3	2847.4	969.2	328.4	420.5	380.5	320.4	300.4
55°	18790.7	19071.0	17889.6	9551.5	2611.1	760.9	256.3	304.4	344.4	280.3	268.3
57.5°	16331.7	16616.0	15546.7	8746.5	2126.6	536.6	212.3	228.3	304.4	260.3	248.3
60°	14517.5	14313.3	13047.7	7296.8	1509.8	300.4	168.2	176.2	332.4	240.3	236.3
62.5°	13268.0	12831.5	10905.1	5634.8	921.1	200.2	132.2	136.2	256.3	224.3	224.3
65°	9815.8	9327.2	7244.7	3408.1	452.5	140.2	100.1	108.1	160.2	192.2	192.2
67.5°	5602.8	5414.5	3500.2	1537.9	188.2	88.1	76.1	84.1	124.1	156.2	148.2
70°	2575.1	2310.8	1345.6	324.4	88.1	60.1	60.1	68.1	100.1	116.1	108.1
72.5°	752.9	712.9	328.4	52.1	36.0	36.0	40.0	52.1	76.1	88.1	80.1
75°	56.1	36.0	24.0	16.0	16.0	24.0	32.0	52.1	76.1	84.1	68.1
77.5°	4.0	8.0	4.0	4.0	12.0	24.0	36.0	64.1	100.1	104.1	76.1
80°	4.0	4.0	0.0	4.0	12.0	24.0	40.0	72.1	112.1	120.1	64.1
82.5°	0.0	0.0	0.0	4.0	16.0	32.0	48.1	76.1	104.1	128.2	68.1
85°	0.0	0.0	0.0	4.0	24.0	44.1	56.1	20.0	12.0	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°	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3
2.5°	8610.4	8506.3	8466.2	8502.2	8490.2	8478.2	8698.5	8650.4	8642.4	8714.5	8698.5
5°	6463.8	6279.6	6784.2	6579.9	6792.2	6920.3	6944.4	6956.4	7104.6	6948.4	7152.6
7.5°	4605.6	4653.6	4649.6	4785.8	5030.1	5246.3	5374.5	5274.4	5266.3	5246.3	5158.2
10°	3680.4	3596.3	3580.3	3548.3	3624.4	3808.6	3964.8	3840.6	3752.5	3872.7	3836.6
12.5°	3007.6	2891.5	2827.4	2699.3	2703.3	2827.4	2827.4	2827.4	2915.5	2983.6	3035.7
15°	2306.8	2210.7	2210.7	2082.5	2054.5	2058.5	2122.6	2130.6	2270.7	2310.8	2330.8
17.5°	1613.9	1561.9	1622.0	1674.0	1642.0	1650.0	1674.0	1682.0	1702.1	1686.0	1726.1
20°	1241.5	1233.5	1249.5	1341.6	1409.7	1449.7	1421.7	1381.7	1357.6	1301.6	1301.6
22.5°	1053.3	1069.3	1097.3	1173.4	1261.5	1285.5	1253.5	1161.4	1089.3	1081.3	1085.3
25°	937.1	953.1	997.2	1045.3	1093.3	1133.4	1101.3	1033.2	993.2	957.2	957.2
27.5°	865.0	873.1	897.1	933.1	973.2	1005.2	993.2	957.2	913.1	897.1	861.0
30°	809.0	821.0	849.0	857.0	893.1	909.1	889.1	881.1	853.0	833.0	821.0
32.5°	780.9	776.9	797.0	805.0	809.0	821.0	797.0	809.0	805.0	772.9	760.9
35°	588.7	620.7	672.8	716.9	728.9	744.9	740.9	724.9	680.8	644.8	600.7
37.5°	528.6	548.7	576.7	612.7	660.8	680.8	672.8	632.8	580.7	556.7	548.7
40°	488.6	500.6	524.6	548.7	596.7	632.8	604.7	568.7	528.6	508.6	496.6
42.5°	452.5	456.6	468.6	492.6	528.6	584.7	536.6	488.6	472.6	460.6	452.5
45°	412.5	412.5	428.5	440.5	480.6	532.6	484.6	440.5	432.5	424.5	420.5
47.5°	380.5	384.5	392.5	408.5	440.5	476.6	444.5	408.5	388.5	384.5	376.5
50°	340.4	344.4	360.4	376.5	416.5	436.5	416.5	376.5	356.4	344.4	344.4
52°	308.4	320.4	336.4	368.4	396.5	428.5	404.5	360.4	336.4	324.4	316.4
52.5°	304.4	312.4	328.4	364.4	396.5	424.5	400.5	356.4	328.4	320.4	312.4
55°	272.3	284.3	312.4	356.4	392.5	424.5	392.5	352.4	312.4	292.4	284.3
57.5°	260.3	268.3	304.4	360.4	388.5	424.5	392.5	352.4	312.4	276.3	268.3
60°	248.3	264.3	304.4	348.4	384.5	428.5	396.5	348.4	304.4	260.3	260.3
62.5°	236.3	248.3	300.4	340.4	368.4	412.5	380.5	340.4	292.4	248.3	244.3
65°	204.2	224.3	264.3	284.3	316.4	356.4	324.4	296.4	256.3	220.3	216.3
67.5°	156.2	164.2	196.2	220.3	240.3	276.3	260.3	224.3	196.2	168.2	168.2
70°	108.1	116.1	140.2	152.2	172.2	192.2	180.2	152.2	132.2	116.1	112.1
72.5°	76.1	80.1	88.1	96.1	104.1	112.1	108.1	88.1	76.1	72.1	68.1
75°	60.1	68.1	72.1	68.1	64.1	60.1	60.1	52.1	44.1	40.0	40.0
77.5°	60.1	64.1	60.1	52.1	44.1	40.0	36.0	32.0	24.0	20.0	24.0
80°	52.1	52.1	52.1	44.1	40.0	36.0	32.0	28.0	24.0	20.0	20.0
82.5°	56.1	56.1	52.1	44.1	44.1	36.0	36.0	32.0	28.0	20.0	20.0
85°	0.0	0.0	0.0	8.0	20.0	36.0	36.0	32.0	28.0	24.0	24.0
87.5°	0.0	0.0	0.0	0.0	4.0	8.0	16.0	20.0	24.0	24.0	24.0
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°	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3
2.5°	8842.7	8994.8	9283.2	9571.5	9747.8	9956.0	10332.5	10532.7	10793.0	10921.2	11173.5
5°	7124.6	7485.0	7613.2	7941.6	8294.0	8646.4	9207.1	9823.8	10336.5	10688.9	11145.4
7.5°	5198.3	5282.4	5779.0	5999.2	6575.9	7216.7	7981.6	8758.6	9407.3	9984.0	10332.5
10°	3896.7	4205.1	4517.4	4938.0	5402.5	6063.3	6796.2	7653.2	8494.2	9070.9	9511.5
12.5°	3131.8	3376.1	3792.6	4245.1	4817.8	5254.3	5991.2	6840.2	7929.6	8494.2	9074.9
15°	2370.9	2683.2	3155.8	3624.4	4229.1	4689.7	5434.6	6503.8	7905.5	8682.5	9183.1
17.5°	1758.1	1970.4	2394.9	2919.5	3536.3	4185.0	5190.3	6467.8	8173.9	9099.0	9615.6
20°	1345.6	1417.7	1686.0	2154.6	2823.4	3672.4	4793.8	6624.0	8966.8	10112.2	10636.8
22.5°	1089.3	1121.4	1225.5	1549.9	2198.7	3223.9	4605.6	6732.1	9859.9	11325.7	12026.5
25°	949.1	941.1	1009.2	1149.4	1718.1	2803.4	4365.3	7140.6	10953.2	12751.4	13380.1
27.5°	865.0	865.0	897.1	997.2	1425.7	2531.1	4213.1	7433.0	12054.5	14004.9	14345.3
30°	821.0	829.0	921.1	953.1	1185.4	2206.7	3960.8	7729.3	13107.8	14805.8	15274.4
32.5°	760.9	728.9	708.9	789.0	997.2	1914.3	3708.5	7853.5	13960.8	15787.0	16187.5
35°	584.7	568.7	592.7	652.8	857.0	1666.0	3428.1	7993.6	14942.0	16924.4	17004.5
37.5°	528.6	524.6	540.7	592.7	720.9	1449.7	3227.9	7957.6	15690.9	17865.5	17649.3
40°	488.6	488.6	500.6	544.7	644.8	1297.6	3019.6	7925.6	16415.8	18922.8	18290.0
42.5°	456.6	456.6	476.6	504.6	612.7	1197.4	2863.5	7881.5	17024.5	19571.6	18666.5
45°	412.5	424.5	456.6	484.6	620.7	1129.4	2747.3	7713.3	17232.8	19563.6	18486.3
47.5°	380.5	396.5	428.5	468.6	560.7	1109.3	2667.2	7565.1	17160.7	19083.0	17921.6
50°	344.4	364.4	408.5	476.6	476.6	1069.3	2583.1	7697.3	17108.6	18710.6	17381.0
52°	320.4	336.4	392.5	464.6	416.5	985.2	2531.1	7953.6	17320.9	18662.5	17140.7
52.5°	316.4	328.4	380.5	456.6	396.5	969.2	2495.0	8013.7	17389.0	18542.4	17304.9
55°	280.3	296.4	348.4	356.4	324.4	797.0	2378.9	8149.8	17052.6	18306.1	17148.7
57.5°	264.3	272.3	308.4	292.4	280.3	600.7	2046.5	7937.6	15146.3	16259.6	15955.2
60°	244.3	252.3	288.3	228.3	236.3	420.5	1537.9	6892.3	12162.7	13548.3	14097.0
62.5°	236.3	232.3	272.3	184.2	200.2	304.4	1085.3	5602.8	9371.3	11153.4	12102.6
65°	208.3	204.2	196.2	156.2	172.2	236.3	648.8	3656.4	6604.0	8438.2	8958.8
67.5°	160.2	168.2	144.2	124.1	144.2	184.2	360.4	1638.0	3464.2	5062.1	5482.6
70°	112.1	120.1	116.1	108.1	128.2	152.2	208.3	560.7	1433.7	2659.2	2931.5
72.5°	68.1	84.1	88.1	92.1	112.1	132.2	148.2	180.2	380.5	941.1	1169.4
75°	40.0	56.1	68.1	80.1	92.1	112.1	124.1	128.2	132.2	176.2	284.3
77.5°	28.0	40.0	60.1	76.1	92.1	112.1	132.2	140.2	132.2	124.1	132.2
80°	24.0	40.0	56.1	72.1	96.1	116.1	132.2	132.2	128.2	112.1	120.1
82.5°	24.0	40.0	60.1	76.1	92.1	112.1	128.2	132.2	120.1	112.1	116.1
85°	28.0	44.1	64.1	80.1	100.1	92.1	84.1	68.1	64.1	52.1	56.1
87.5°	28.0	40.0	40.0	44.1	48.1	48.1	48.1	44.1	36.0	32.0	32.0
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°	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3	10236.3
2.5°	11185.5	11505.9	11493.9	11501.9	11453.8	11129.4	10973.2	10576.7	10688.9	10640.8
5°	11614.0	11930.4	12202.7	12170.7	11802.2	11361.7	10708.9	10092.2	9924.0	9675.7
7.5°	11185.5	11946.4	12198.7	12162.7	11618.0	11053.3	10012.1	9395.3	9103.0	8938.8
10°	10504.7	11385.7	11698.1	11762.2	11393.7	10536.7	9579.5	8590.4	8434.2	8149.8
12.5°	10116.2	10757.0	10949.2	11121.4	10993.3	10352.5	9251.2	8302.0	8085.7	7897.5
15°	9799.8	10180.3	10260.4	10456.6	10532.7	10188.3	9423.4	8614.4	8081.7	8061.7
17.5°	10092.2	9936.0	9643.6	9703.7	9944.0	10192.3	9867.9	9231.1	8714.5	8650.4
20°	10576.7	9887.9	9227.1	9375.3	9575.5	10336.5	10540.7	10092.2	9795.8	9631.6
22.5°	11133.4	9972.0	9095.0	9167.1	9547.5	10660.9	11630.0	11381.7	10829.1	10592.8
25°	12162.7	10204.3	9199.1	9247.1	9767.8	11113.4	12615.2	12799.4	12471.0	12423.0
27.5°	13167.9	10805.0	9427.4	9319.2	9879.9	11553.9	13211.9	14201.1	13624.4	13512.3
30°	13680.5	11293.6	9767.8	9583.6	10344.5	11822.3	13572.4	15114.2	14609.6	14557.5
32.5°	14465.4	11738.1	10032.1	9795.8	10604.8	12154.7	14245.2	16111.4	15622.8	15362.5
35°	14793.8	12222.7	10612.8	10336.5	11349.7	12619.2	14589.6	17000.5	16848.3	16596.0
37.5°	15426.6	12743.4	11297.6	11281.6	12250.8	13223.9	15210.3	18210.0	18181.9	17745.4
40°	15478.7	13312.0	12378.9	12883.5	13644.4	14277.2	15755.0	18546.4	19002.9	18706.5
42.5°	15558.8	14309.2	14249.2	14665.7	15318.5	15182.3	15775.0	18626.5	19323.3	19147.1
45°	15594.8	15306.5	16151.5	16920.4	17192.7	16367.7	15586.8	18474.3	19491.5	19051.0
47.5°	15306.5	16163.5	17689.3	19175.1	19255.2	17096.6	15506.7	18318.1	19591.6	19299.3
50°	15346.5	16700.1	19018.9	20348.5	20056.2	17741.4	15382.5	18222.0	19539.6	19343.3
52°	15250.4	16712.1	19207.2	20324.5	20120.3	17385.0	15170.3	17853.5	19491.5	19631.7
52.5°	15358.5	16640.1	19010.9	20340.5	20076.2	17561.2	15142.3	18057.8	19519.5	19235.2
55°	14986.1	15783.0	17861.5	18426.2	18386.2	15939.2	14281.2	17381.0	18786.6	18790.7
57.5°	13544.3	13680.5	14008.9	13996.9	13812.7	12531.1	12214.7	15983.3	16748.2	16331.7
60°	11934.4	10016.1	9131.0	8770.6	8566.3	8358.1	10805.0	14621.6	14693.7	14517.5
62.5°	10312.4	6944.4	5767.0	5666.8	5714.9	6475.8	10444.6	14081.0	13648.5	13268.0
65°	8322.0	5062.1	4189.0	4056.9	4525.5	5346.4	8454.2	10797.0	10132.2	9815.8
67.5°	5226.3	3692.5	2831.4	2583.1	3147.8	3680.4	5554.7	6784.2	6039.3	5602.8
70°	3099.7	2062.5	1281.5	1149.4	1293.6	1962.4	3111.8	3384.1	2799.4	2575.1
72.5°	1221.5	756.9	356.4	304.4	316.4	688.8	1145.4	1117.3	845.0	752.9
75°	328.4	228.3	124.1	100.1	84.1	128.2	184.2	120.1	44.1	56.1
77.5°	152.2	136.2	108.1	84.1	64.1	48.1	24.0	8.0	8.0	4.0
80°	132.2	116.1	100.1	84.1	64.1	40.0	20.0	4.0	4.0	4.0
82.5°	124.1	108.1	92.1	76.1	60.1	40.0	20.0	4.0	0.0	0.0
85°	52.1	68.1	76.1	72.1	64.1	40.0	20.0	4.0	0.0	0.0
87.5°	28.0	24.0	20.0	16.0	12.0	8.0	8.0	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

(END OF REPORT)