

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: P651078

Luminaire Tested: **GALN-SA8C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651078
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-SA8C-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 26394.8 lumens
Efficiency: N/A
Efficacy: 61.5 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

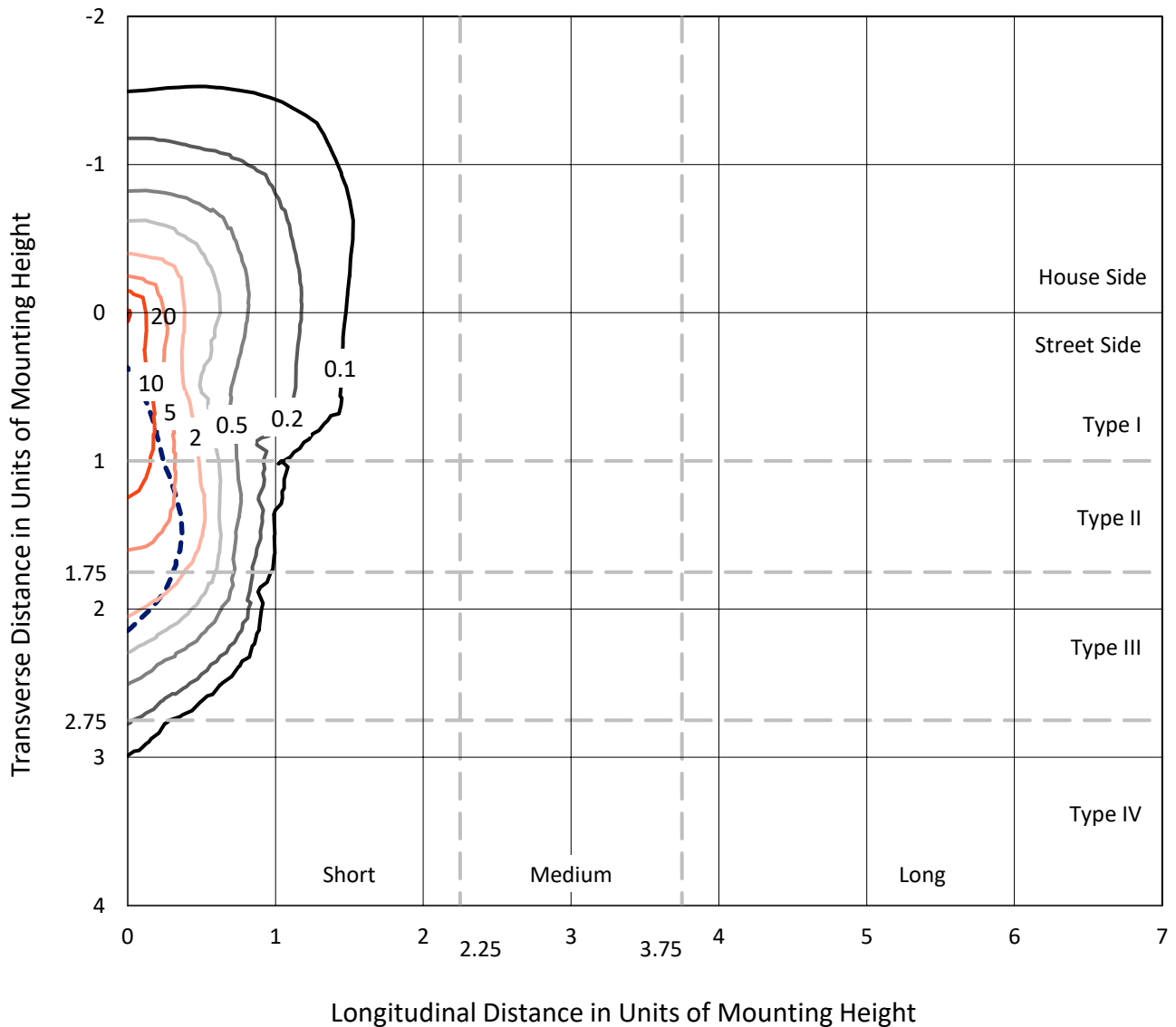
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

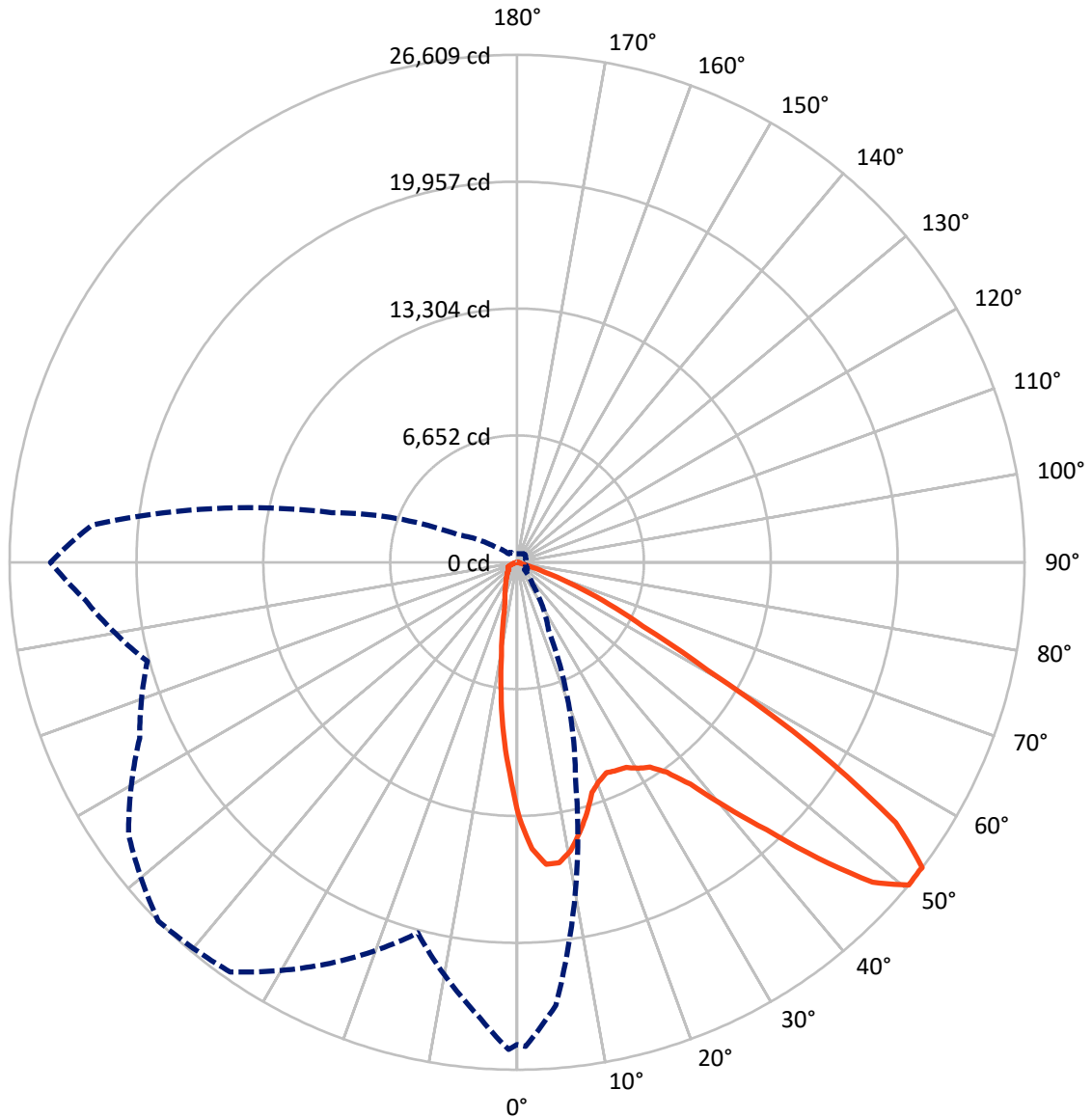
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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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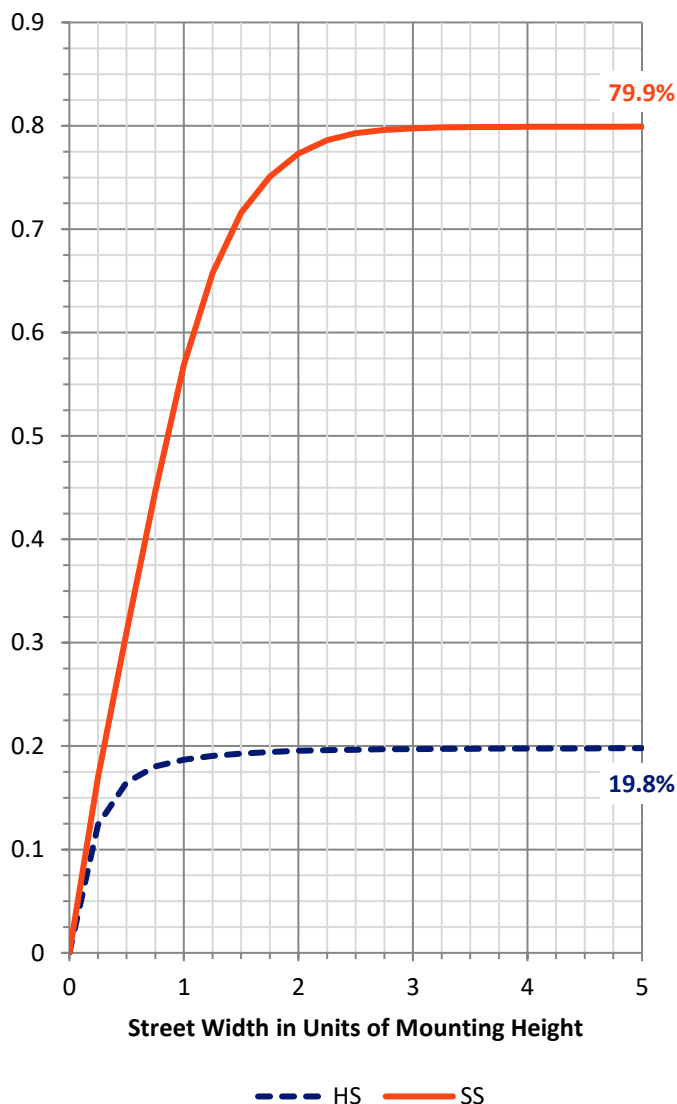
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5286.9	0.0	5286.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	21107.9	0.0	21107.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	26394.8	0.0	26394.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.7	3.7
10°-20°	1939.1	7.3
20°-30°	2913.1	11.0
30°-40°	4372.5	16.6
40°-50°	6145.2	23.3
50°-60°	6628.7	25.1
60°-70°	3077.7	11.7
70°-80°	289.6	1.1
80°-90°	53.4	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°	26394.8	100.0
0°-180°	26394.8	100.0

Coefficient of Utilization

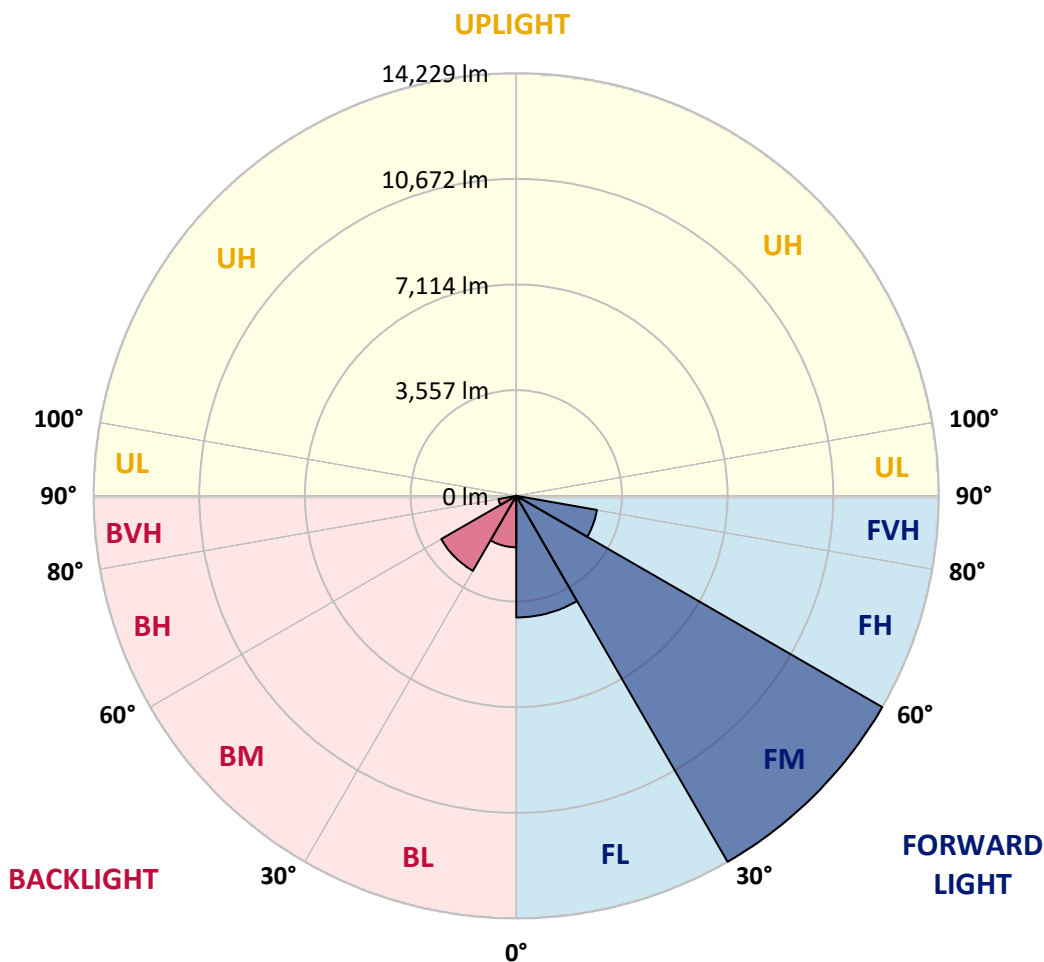


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4094.9	15.5			
FM (30°-60°)	14228.8	53.9			
FH (60°-80°)	2760.2	10.5			G2/5000
FVH (80°-90°)	24.0	0.1			G1/100
BL (0°-30°)	1732.9	6.6	B3/2500		
BM (30°-60°)	2917.6	11.1	B3/5000		
BH (60°-80°)	607.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	29.3	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°	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5
2.5°	13914.4	13699.7	13427.4	13202.2	12867.0	12191.5	12008.2	11788.2	11605.0	11358.8	11013.1
5°	12652.3	12584.2	12458.6	11610.2	10997.5	10180.5	9510.2	9227.4	8855.6	8551.9	8331.9
7.5°	11688.7	11416.4	11018.4	10164.8	9185.5	8310.9	7567.3	7132.6	6640.4	6472.8	6174.3
10°	10657.1	10719.9	10133.4	8934.1	7750.6	7043.6	6582.8	6163.9	5718.7	5425.4	5001.3
12.5°	10327.1	10122.9	9672.5	8190.5	7179.8	6519.9	5959.6	5441.1	4969.8	4498.5	4090.0
15°	10541.9	10227.7	9599.2	8033.4	6739.9	5917.7	5216.0	4514.2	4079.5	3477.3	3053.1
17.5°	11311.7	11060.3	10217.1	8200.9	6514.7	5341.6	4299.4	3576.8	2911.7	2367.1	2152.4
20°	12594.7	12238.6	11180.8	8415.7	6179.5	4645.1	3487.8	2597.5	1969.0	1738.7	1618.2
22.5°	13851.6	13657.8	12322.4	8829.4	5881.0	4027.1	2618.5	1749.1	1471.6	1429.7	1351.2
25°	16244.8	15663.5	14066.3	9578.2	5650.6	3445.9	1974.3	1408.8	1246.4	1215.0	1225.4
27.5°	17669.2	17182.2	15679.3	10075.8	5394.0	3000.8	1670.6	1293.5	1183.5	1115.4	1089.3
30°	19036.1	18470.5	16480.5	10369.0	4844.2	2529.4	1482.0	1241.1	1215.0	1115.4	1084.0
32.5°	20088.7	19533.6	17637.9	10809.0	4618.9	2225.7	1220.2	968.8	900.7	890.3	984.6
35°	21701.7	21109.9	18627.6	11049.8	4446.1	2068.6	1057.8	864.1	785.5	754.1	759.3
37.5°	23204.6	22801.4	19544.1	11144.1	4262.9	2021.4	947.9	775.1	706.9	686.0	680.8
40°	24461.5	23560.8	20413.4	11243.6	4184.3	1932.4	879.8	706.9	659.8	628.4	628.4
42.5°	25037.6	24121.1	21387.5	11186.0	4163.3	1791.0	879.8	649.3	612.8	581.3	576.1
45°	24911.8	24540.0	21822.1	11159.8	4163.3	1649.6	801.2	633.7	581.3	539.4	528.9
47.5°	25236.6	24749.5	22366.7	11269.8	4079.5	1550.1	675.6	665.1	549.8	497.5	487.0
50°	25294.2	25388.4	23314.6	11840.6	3896.3	1424.4	528.9	654.6	528.9	450.4	439.9
52°	25671.2	25084.7	23602.7	12144.4	3702.5	1330.2	445.1	560.4	508.0	419.0	408.5
52.5°	25152.8	25535.0	23670.7	12254.3	3723.4	1267.3	429.4	549.8	497.5	419.0	392.7
55°	24571.5	24938.1	23393.2	12489.9	3414.5	995.0	335.1	398.0	450.4	366.6	350.9
57.5°	21356.0	21727.8	20329.6	11437.3	2780.8	701.7	277.5	298.5	398.0	340.4	324.7
60°	18983.7	18716.6	17061.8	9541.6	1974.3	392.7	219.9	230.4	434.6	314.2	309.0
62.5°	17349.8	16779.0	14260.1	7368.3	1204.5	261.8	172.8	178.0	335.1	293.3	293.3
65°	12835.6	12196.7	9473.5	4456.6	591.7	183.3	130.9	141.4	209.5	251.4	251.4
67.5°	7326.4	7080.3	4577.1	2011.0	246.2	115.2	99.5	110.0	162.3	204.3	193.8
70°	3367.3	3021.7	1759.6	424.2	115.2	78.5	78.5	89.1	130.9	151.9	141.4
72.5°	984.6	932.2	429.4	68.1	47.1	47.1	52.4	68.1	99.5	115.2	104.7
75°	73.3	47.1	31.5	20.9	20.9	31.5	41.9	68.1	99.5	110.0	89.1
77.5°	5.2	10.5	5.2	5.2	15.7	31.5	47.1	83.8	130.9	136.2	99.5
80°	5.2	5.2	0.0	5.2	15.7	31.5	52.4	94.3	146.7	157.1	83.8
82.5°	0.0	0.0	0.0	5.2	20.9	41.9	62.8	99.5	136.2	167.6	89.1
85°	0.0	0.0	0.0	5.2	31.5	57.6	73.3	26.2	15.7	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°	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5
2.5°	11259.3	11123.2	11070.8	11117.9	11102.2	11086.5	11374.5	11311.7	11301.2	11395.5	11374.5
5°	8452.3	8211.4	8871.3	8604.2	8881.8	9049.3	9080.8	9096.5	9290.3	9086.0	9353.1
7.5°	6022.4	6085.2	6080.0	6258.0	6577.5	6860.3	7027.9	6897.0	6886.5	6860.3	6745.1
10°	4812.7	4702.7	4681.8	4639.9	4739.4	4980.3	5184.5	5022.2	4907.0	5064.1	5016.9
12.5°	3932.9	3781.1	3697.2	3529.7	3534.9	3697.2	3697.2	3697.2	3812.4	3901.5	3969.5
15°	3016.4	2890.8	2890.8	2723.2	2686.5	2691.8	2775.6	2786.1	2969.3	3021.7	3047.9
17.5°	2110.5	2042.4	2120.9	2189.0	2147.2	2157.6	2189.0	2199.5	2225.7	2204.8	2257.1
20°	1623.5	1613.0	1633.9	1754.3	1843.4	1895.8	1859.1	1806.7	1775.3	1702.0	1702.0
22.5°	1377.3	1398.2	1434.9	1534.4	1649.6	1681.1	1639.1	1518.7	1424.4	1414.0	1419.2
25°	1225.4	1246.4	1304.0	1366.8	1429.7	1482.0	1440.1	1351.2	1298.8	1251.6	1251.6
27.5°	1131.1	1141.7	1173.0	1220.2	1272.6	1314.5	1298.8	1251.6	1194.1	1173.0	1125.9
30°	1057.8	1073.5	1110.2	1120.7	1167.8	1188.8	1162.6	1152.1	1115.4	1089.3	1073.5
32.5°	1021.2	1015.9	1042.2	1052.6	1057.8	1073.5	1042.2	1057.8	1052.6	1010.7	995.0
35°	769.9	811.7	879.8	937.4	953.1	974.0	968.8	947.9	890.3	843.1	785.5
37.5°	691.3	717.5	754.1	801.2	864.1	890.3	879.8	827.5	759.3	727.9	717.5
40°	638.9	654.6	686.0	717.5	780.3	827.5	790.8	743.6	691.3	665.1	649.3
42.5°	591.7	597.0	612.8	644.1	691.3	764.6	701.7	638.9	618.0	602.2	591.7
45°	539.4	539.4	560.4	576.1	628.4	696.5	633.7	576.1	565.6	555.1	549.8
47.5°	497.5	502.7	513.2	534.2	576.1	623.2	581.3	534.2	508.0	502.7	492.2
50°	445.1	450.4	471.3	492.2	544.6	570.8	544.6	492.2	466.1	450.4	450.4
52°	403.3	419.0	439.9	481.8	518.5	560.4	528.9	471.3	439.9	424.2	413.7
52.5°	398.0	408.5	429.4	476.6	518.5	555.1	523.7	466.1	429.4	419.0	408.5
55°	356.1	371.8	408.5	466.1	513.2	555.1	513.2	460.9	408.5	382.3	371.8
57.5°	340.4	350.9	398.0	471.3	508.0	555.1	513.2	460.9	408.5	361.4	350.9
60°	324.7	345.7	398.0	455.6	502.7	560.4	518.5	455.6	398.0	340.4	340.4
62.5°	309.0	324.7	392.7	445.1	481.8	539.4	497.5	445.1	382.3	324.7	319.4
65°	267.1	293.3	345.7	371.8	413.7	466.1	424.2	387.5	335.1	288.0	282.8
67.5°	204.3	214.7	256.6	288.0	314.2	361.4	340.4	293.3	256.6	219.9	219.9
70°	141.4	151.9	183.3	199.0	225.2	251.4	235.6	199.0	172.8	151.9	146.7
72.5°	99.5	104.7	115.2	125.6	136.2	146.7	141.4	115.2	99.5	94.3	89.1
75°	78.5	89.1	94.3	89.1	83.8	78.5	78.5	68.1	57.6	52.4	52.4
77.5°	78.5	83.8	78.5	68.1	57.6	52.4	47.1	41.9	31.5	26.2	31.5
80°	68.1	68.1	68.1	57.6	52.4	47.1	41.9	36.7	31.5	26.2	26.2
82.5°	73.3	73.3	68.1	57.6	57.6	47.1	47.1	41.9	36.7	26.2	26.2
85°	0.0	0.0	0.0	10.5	26.2	47.1	47.1	41.9	36.7	31.5	31.5
87.5°	0.0	0.0	0.0	0.0	5.2	10.5	20.9	26.2	31.5	31.5	31.5
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°	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5
2.5°	11563.1	11762.1	12139.1	12516.2	12746.6	13018.9	13511.2	13773.0	14113.4	14281.0	14610.9
5°	9316.4	9787.7	9955.3	10384.8	10845.6	11306.4	12039.6	12846.1	13516.4	13977.3	14574.3
7.5°	6797.5	6907.5	7556.8	7844.8	8599.0	9436.9	10437.1	11453.1	12301.5	13055.6	13511.2
10°	5095.5	5498.7	5907.2	6457.1	7064.6	7928.6	8887.0	10007.7	11107.4	11861.5	12437.6
12.5°	4095.2	4414.7	4959.3	5551.1	6300.0	6870.8	7834.4	8944.6	10369.0	11107.4	11866.8
15°	3100.3	3508.7	4126.7	4739.4	5530.2	6132.4	7106.4	8504.7	10337.7	11353.6	12008.2
17.5°	2299.0	2576.6	3131.6	3817.7	4624.2	5472.6	6787.0	8457.6	10688.5	11898.2	12573.8
20°	1759.6	1853.8	2204.8	2817.4	3692.0	4802.2	6268.6	8661.8	11725.4	13223.1	13909.1
22.5°	1424.4	1466.4	1602.5	2026.6	2875.0	4215.7	6022.4	8803.2	12893.2	14809.9	15726.4
25°	1241.1	1230.6	1319.7	1503.0	2246.6	3665.8	5708.2	9337.4	14322.9	16674.3	17496.4
27.5°	1131.1	1131.1	1173.0	1304.0	1864.3	3309.7	5509.2	9719.7	15763.0	18313.4	18758.5
30°	1073.5	1084.0	1204.5	1246.4	1550.1	2885.6	5179.3	10107.2	17140.3	19360.7	19973.5
32.5°	995.0	953.1	927.0	1031.7	1304.0	2503.2	4849.4	10269.5	18255.8	20643.8	21167.5
35°	764.6	743.6	775.1	853.6	1120.7	2178.5	4482.8	10452.8	19538.8	22131.1	22235.8
37.5°	691.3	686.0	706.9	775.1	942.7	1895.8	4220.9	10405.7	20518.1	23361.7	23079.0
40°	638.9	638.9	654.6	712.2	843.1	1696.7	3948.6	10363.8	21466.0	24744.3	23916.9
42.5°	597.0	597.0	623.2	659.8	801.2	1565.9	3744.4	10306.2	22262.0	25592.6	24409.1
45°	539.4	555.1	597.0	633.7	811.7	1476.8	3592.5	10086.3	22534.3	25582.2	24173.5
47.5°	497.5	518.5	560.4	612.8	733.2	1450.6	3487.8	9892.5	22440.1	24953.7	23435.1
50°	450.4	476.6	534.2	623.2	623.2	1398.2	3377.8	10065.3	22371.9	24466.7	22728.1
52°	419.0	439.9	513.2	607.5	544.6	1288.2	3309.7	10400.5	22649.6	24403.9	22413.9
52.5°	413.7	429.4	497.5	597.0	518.5	1267.3	3262.6	10479.0	22738.5	24246.8	22628.6
55°	366.6	387.5	455.6	466.1	424.2	1042.2	3110.7	10657.1	22298.7	23937.8	22424.3
57.5°	345.7	356.1	403.3	382.3	366.6	785.5	2676.1	10379.5	19805.9	21261.7	20863.8
60°	319.4	329.9	377.0	298.5	309.0	549.8	2011.0	9012.7	15904.4	17716.4	18433.9
62.5°	309.0	303.8	356.1	240.9	261.8	398.0	1419.2	7326.4	12254.3	14584.7	15825.9
65°	272.3	267.1	256.6	204.3	225.2	309.0	848.4	4781.3	8635.6	11034.1	11714.9
67.5°	209.5	219.9	188.6	162.3	188.6	240.9	471.3	2141.9	4529.9	6619.4	7169.3
70°	146.7	157.1	151.9	141.4	167.6	199.0	272.3	733.2	1874.8	3477.3	3833.4
72.5°	89.1	110.0	115.2	120.4	146.7	172.8	193.8	235.6	497.5	1230.6	1529.2
75°	52.4	73.3	89.1	104.7	120.4	146.7	162.3	167.6	172.8	230.4	371.8
77.5°	36.7	52.4	78.5	99.5	120.4	146.7	172.8	183.3	172.8	162.3	172.8
80°	31.5	52.4	73.3	94.3	125.6	151.9	172.8	172.8	167.6	146.7	157.1
82.5°	31.5	52.4	78.5	99.5	120.4	146.7	167.6	172.8	157.1	146.7	151.9
85°	36.7	57.6	83.8	104.7	130.9	120.4	110.0	89.1	83.8	68.1	73.3
87.5°	36.7	52.4	52.4	57.6	62.8	62.8	62.8	57.6	47.1	41.9	41.9
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°	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5	13385.5
2.5°	14626.6	15045.6	15029.8	15040.4	14977.5	14553.3	14349.1	13830.6	13977.3	13914.4
5°	15186.9	15600.7	15956.8	15914.9	15433.1	14857.0	14003.4	13197.0	12977.0	12652.3
7.5°	14626.6	15621.7	15951.6	15904.4	15192.2	14453.8	13092.2	12285.7	11903.4	11688.7
10°	13736.4	14888.5	15296.9	15380.7	14898.9	13778.3	12526.6	11233.2	11028.9	10657.1
12.5°	13228.3	14066.3	14317.7	14542.8	14375.2	13537.3	12097.2	10856.0	10573.3	10327.1
15°	12814.7	13312.2	13416.9	13673.5	13773.0	13322.6	12322.4	11264.5	10568.0	10541.9
17.5°	13197.0	12992.7	12610.5	12689.0	13003.2	13327.9	12903.7	12071.0	11395.5	11311.7
20°	13830.6	12929.9	12065.8	12259.6	12521.4	13516.4	13783.5	13197.0	12809.4	12594.7
22.5°	14558.6	13039.9	11893.0	11987.2	12484.7	13940.6	15207.9	14883.3	14160.5	13851.6
25°	15904.4	13343.6	12029.2	12092.0	12772.8	14532.4	16496.2	16737.1	16307.7	16244.8
27.5°	17218.9	14129.1	12327.6	12186.3	12919.4	15108.4	17276.5	18570.0	17815.9	17669.2
30°	17889.2	14768.0	12772.8	12531.9	13526.9	15459.3	17747.8	19764.0	19104.2	19036.1
32.5°	18915.6	15349.3	13118.4	12809.4	13867.2	15894.0	18627.6	21068.0	20429.1	20088.7
35°	19345.1	15983.0	13877.8	13516.4	14841.4	16501.4	19078.0	22230.6	22031.6	21701.7
37.5°	20172.5	16663.7	14773.3	14752.3	16019.6	17292.2	19889.7	23812.2	23775.5	23204.6
40°	20240.6	17407.4	16187.2	16847.1	17842.1	18669.5	20601.9	24252.0	24849.0	24461.5
42.5°	20345.3	18711.4	18632.9	19177.5	20031.1	19853.1	20628.1	24356.8	25268.0	25037.6
45°	20392.4	20015.4	21120.4	22125.9	22481.9	21403.2	20382.0	24157.7	25487.9	24911.8
47.5°	20015.4	21136.1	23131.4	25074.2	25179.0	22356.3	20277.3	23953.5	25618.9	25236.6
50°	20067.8	21837.8	24870.0	26608.7	26226.3	23199.4	20114.9	23827.8	25550.8	25294.2
52°	19942.0	21853.6	25116.1	26577.2	26310.1	22733.3	19837.3	23346.1	25487.9	25671.2
52.5°	20083.5	21759.3	24859.5	26598.1	26252.5	22963.8	19800.7	23613.1	25524.6	25152.8
55°	19596.4	20638.6	23356.5	24094.9	24042.5	20842.8	18674.7	22728.1	24566.2	24571.5
57.5°	17711.1	17889.2	18318.7	18302.9	18062.0	16386.2	15972.5	20900.4	21900.6	21356.0
60°	15605.9	13097.5	11940.1	11468.8	11201.7	10929.4	14129.1	19119.9	19214.2	18983.7
62.5°	13485.0	9080.8	7541.1	7410.2	7473.0	8468.0	13657.8	18412.9	17847.3	17349.8
65°	10882.3	6619.4	5477.8	5304.9	5917.7	6991.2	11055.0	14118.6	13249.3	12835.6
67.5°	6834.1	4828.4	3702.5	3377.8	4116.2	4812.7	7263.5	8871.3	7897.2	7326.4
70°	4053.4	2697.0	1675.8	1503.0	1691.5	2566.1	4069.1	4425.2	3660.6	3367.3
72.5°	1597.2	989.8	466.1	398.0	413.7	900.7	1497.7	1461.1	1105.0	984.6
75°	429.4	298.5	162.3	130.9	110.0	167.6	240.9	157.1	57.6	73.3
77.5°	199.0	178.0	141.4	110.0	83.8	62.8	31.5	10.5	10.5	5.2
80°	172.8	151.9	130.9	110.0	83.8	52.4	26.2	5.2	5.2	5.2
82.5°	162.3	141.4	120.4	99.5	78.5	52.4	26.2	5.2	0.0	0.0
85°	68.1	89.1	99.5	94.3	83.8	52.4	26.2	5.2	0.0	0.0
87.5°	36.7	31.5	26.2	20.9	15.7	10.5	10.5	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)