

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: P383200

Luminaire Tested: **GLEON-SA5B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19723.7 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

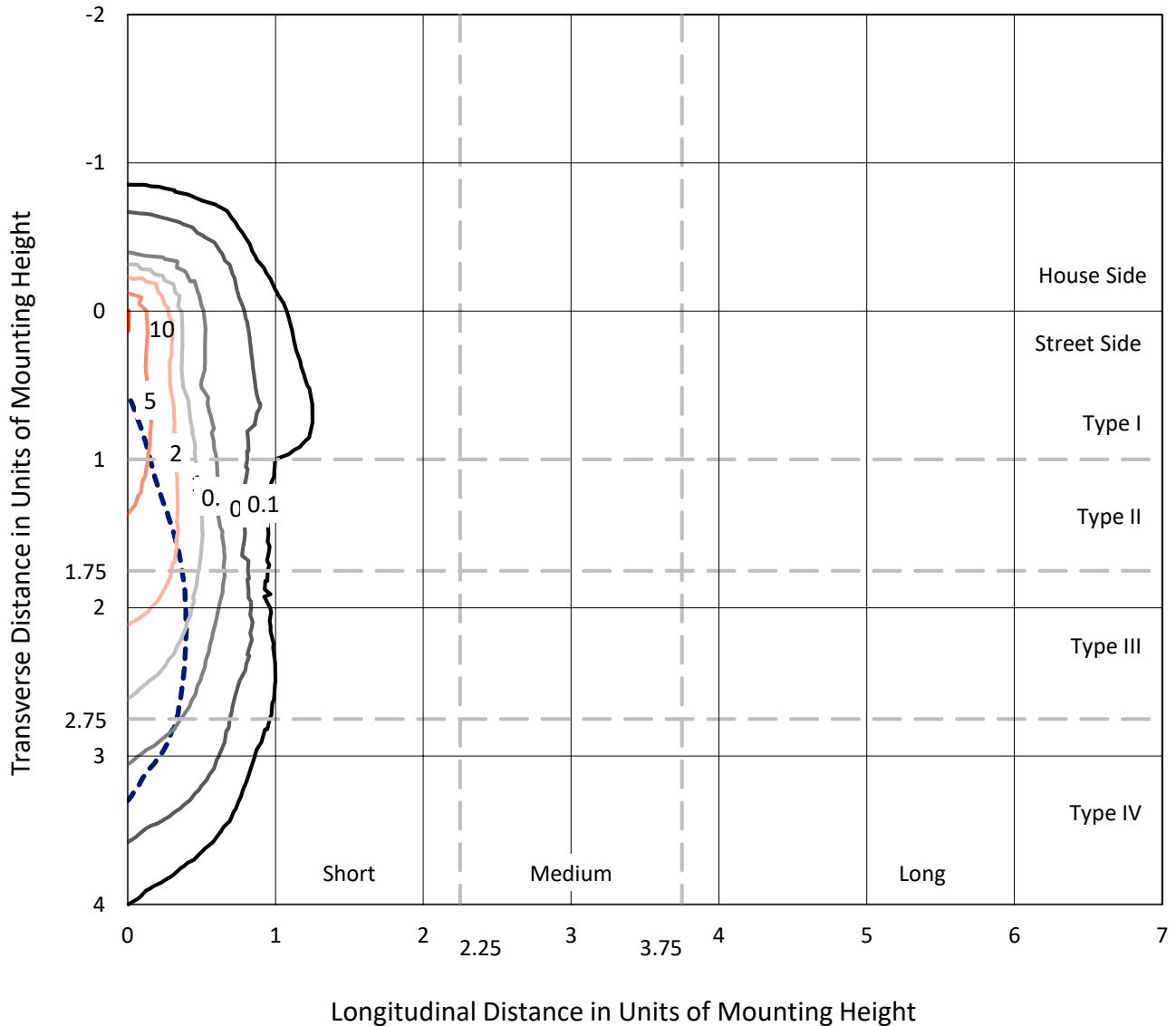




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Iso-Footcandle Lines of Horizontal Illumination

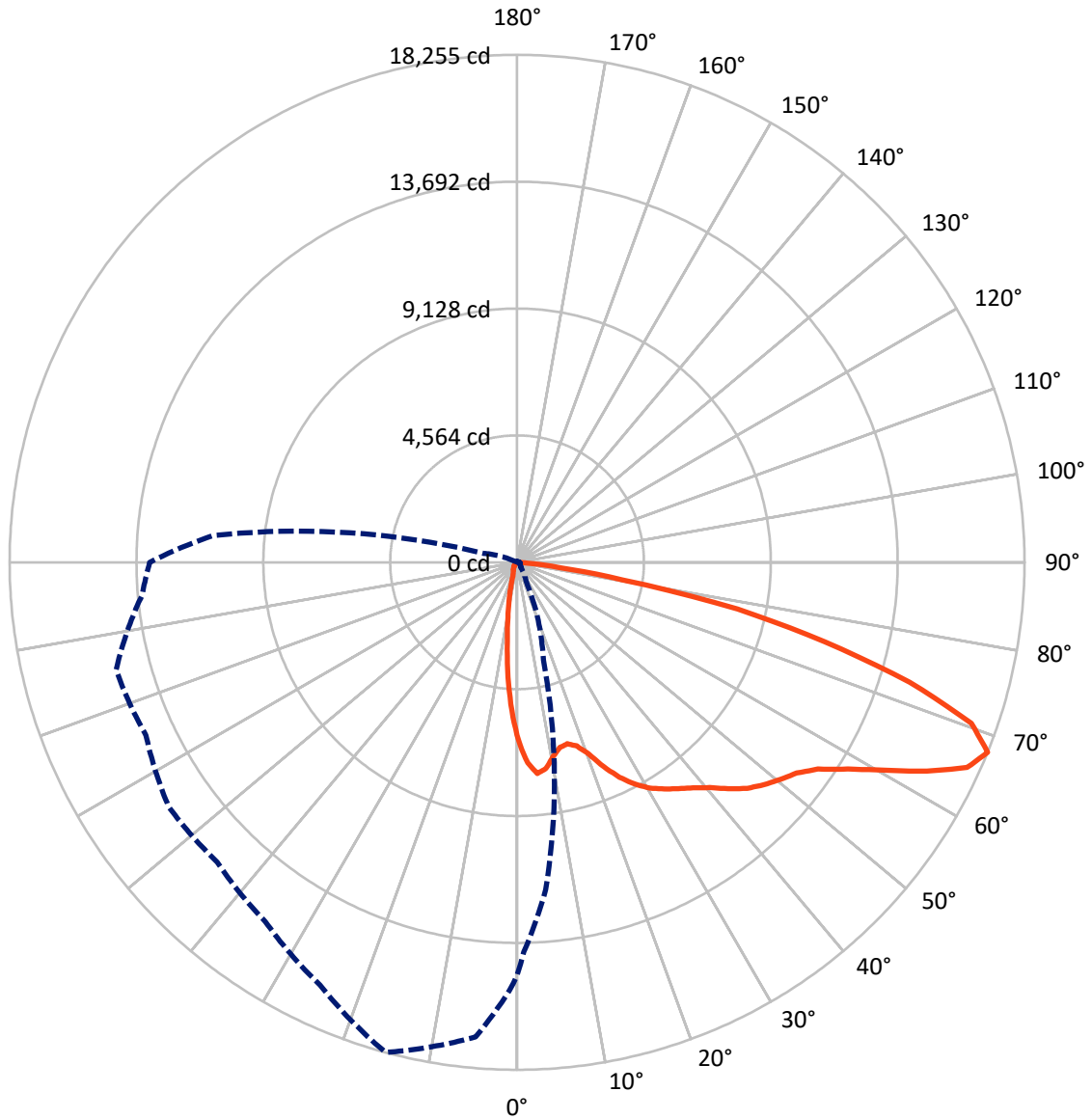
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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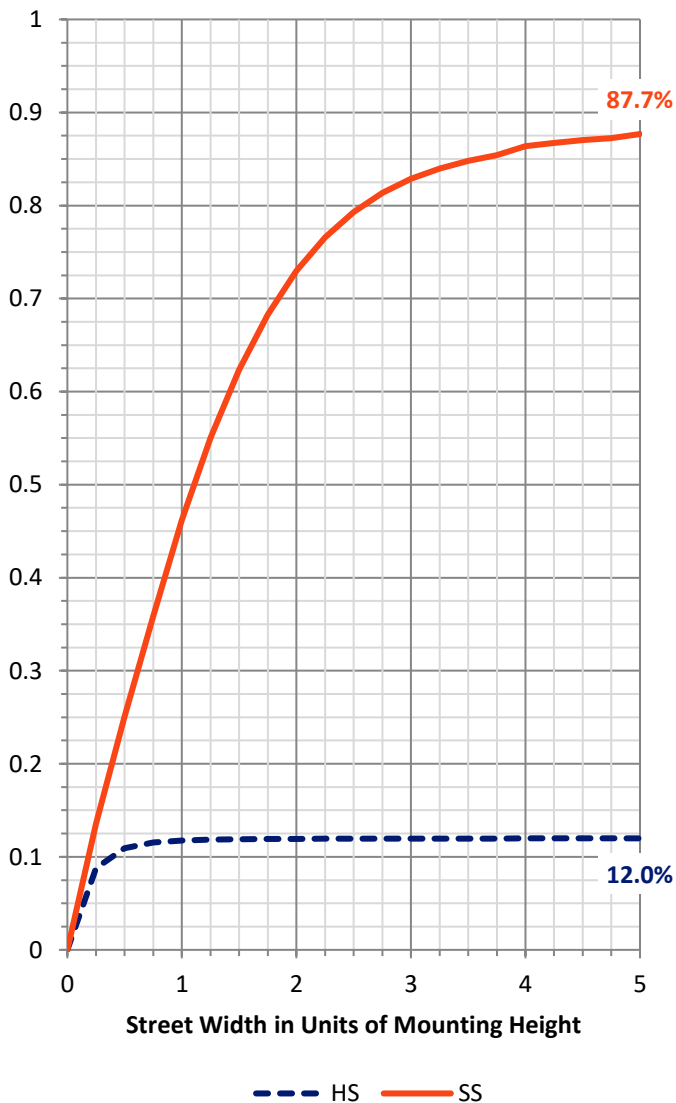
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.2	0.0	2387.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17336.5	0.0	17336.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	19723.7	0.0	19723.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.1	2.5
10°-20°	981.5	5.0
20°-30°	1393.8	7.1
30°-40°	2058.7	10.4
40°-50°	2969.0	15.1
50°-60°	4167.9	21.1
60°-70°	4858.6	24.6
70°-80°	2483.8	12.6
80°-90°	317.2	1.6
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°	19723.7	100.0
0°-180°	19723.7	100.0

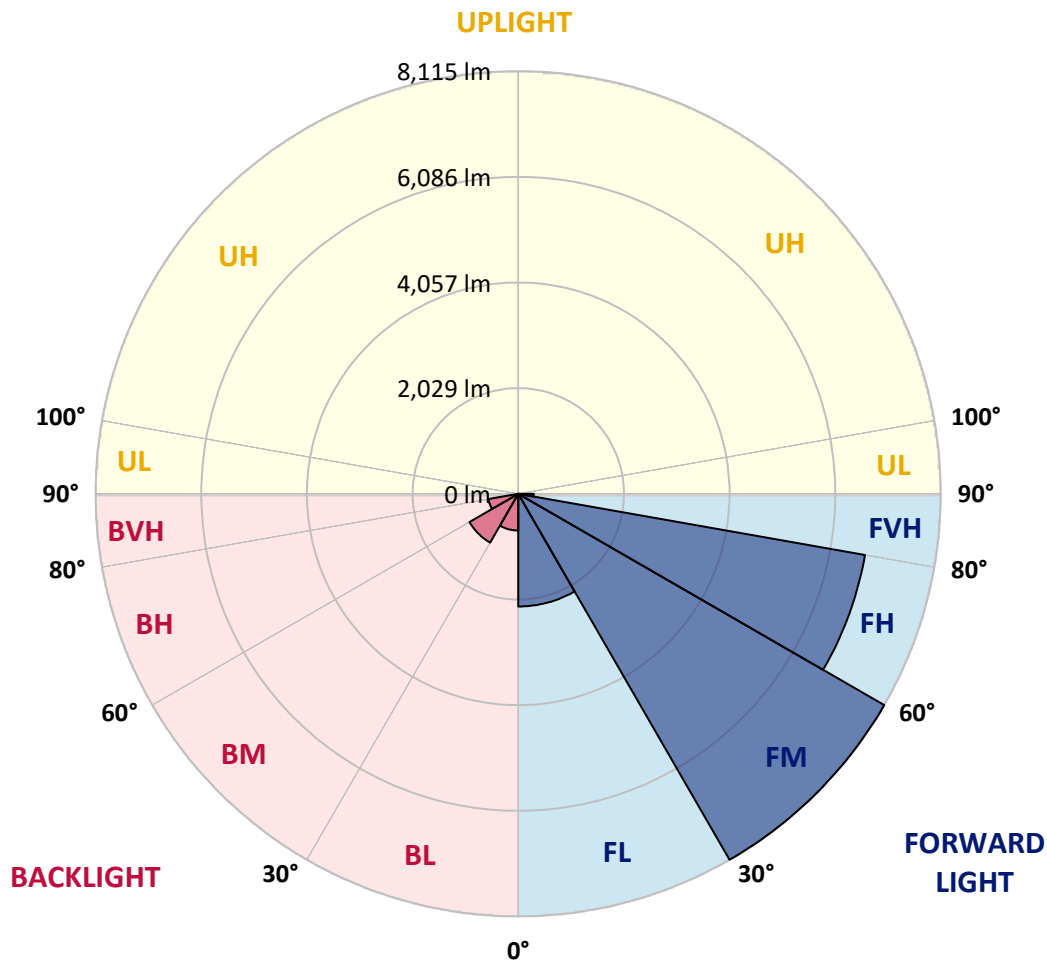


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.3	11.0			
FM (30°-60°)	8114.6	41.1			
FH (60°-80°)	6760.6	34.3			G3/7500
FVH (80°-90°)	297.9	1.5			G3/500
BL (0°-30°)	705.1	3.6	B2/1000		
BM (30°-60°)	1081.0	5.5	B2/2500		
BH (60°-80°)	581.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0
2.5°	7035.1	6980.9	6921.1	6725.9	6544.6	6337.1	6168.0	6050.2	5902.7	5711.0	5662.5
5°	6984.7	6926.7	6738.9	6304.4	5924.1	5554.1	5197.1	4987.9	4728.1	4464.5	4399.1
7.5°	6477.2	6416.5	6145.5	5550.3	5038.3	4503.8	4040.3	3753.5	3460.0	3219.1	3091.0
10°	5949.3	5883.0	5578.4	4856.1	4225.4	3742.3	3402.2	3128.4	2850.8	2593.0	2387.4
12.5°	5585.8	5498.9	5168.1	4349.7	3800.2	3472.3	3154.5	2826.6	2450.9	2174.3	1948.2
15°	5433.5	5334.5	4985.0	4154.3	3649.8	3264.8	2850.8	2448.1	2008.0	1691.2	1483.9
17.5°	5551.3	5422.4	5047.6	4141.3	3461.0	2936.8	2413.5	1940.8	1463.3	1142.7	995.2
20°	5951.2	5782.1	5306.5	4137.6	3232.1	2547.2	1883.8	1349.3	964.3	775.5	698.0
22.5°	6581.0	6357.6	5678.3	4167.5	2995.7	2137.9	1360.5	916.6	724.2	626.1	580.3
25°	7341.6	7082.7	6213.8	4273.0	2788.2	1739.9	988.6	724.2	611.1	539.2	500.8
27.5°	8064.8	7854.6	6890.3	4425.3	2627.5	1418.5	802.6	613.9	522.3	474.7	443.9
30°	8787.1	8522.6	7584.6	4606.6	2434.1	1200.7	705.5	559.7	468.1	417.7	398.1
32.5°	9312.2	9092.6	8128.4	4737.4	2227.6	1058.7	630.8	512.1	437.3	385.9	357.0
35°	9929.9	9681.3	8594.6	4766.4	2095.0	969.0	567.2	460.7	379.3	333.6	302.8
37.5°	10597.0	10287.7	9132.8	4702.8	1991.2	925.0	519.5	437.3	354.2	307.4	274.7
40°	11335.3	10985.7	9649.5	4611.3	1889.4	910.1	483.1	419.6	334.5	286.8	253.2
42.5°	12112.6	11700.6	10097.1	4515.0	1824.9	858.7	479.4	401.8	319.5	268.2	234.6
45°	12765.8	12348.1	10556.9	4483.3	1779.1	802.6	495.2	389.7	309.3	253.2	220.5
47.5°	13286.3	12891.0	11027.8	4554.2	1752.9	751.3	451.3	405.5	303.7	240.2	208.4
50°	13907.6	13460.0	11691.2	4766.4	1714.6	699.9	408.3	464.4	303.7	231.8	198.0
52.5°	14687.0	14244.0	12431.3	5095.3	1638.0	628.9	367.2	465.3	306.5	220.5	185.0
55°	15667.1	15345.7	13488.1	5456.0	1515.6	524.2	317.7	399.9	295.3	200.0	172.9
57.5°	16607.1	16344.6	14451.5	5702.7	1352.0	409.2	276.6	322.4	270.1	175.7	154.2
59°	16864.1	16577.3	14804.6	5713.8	1229.6	357.0	256.0	266.3	264.5	164.4	143.0
60°	16864.1	16559.5	14906.5	5654.0	1140.9	328.0	242.9	237.4	275.6	157.0	136.4
62.5°	16558.5	16130.6	14575.7	5249.5	930.7	279.4	212.1	196.2	247.6	141.1	120.5
65°	15923.1	15299.9	13448.8	4517.8	829.7	256.0	183.1	160.7	172.0	124.3	105.5
67.5°	14863.5	14018.9	11823.9	3649.8	789.6	249.5	157.9	136.4	129.9	106.5	92.5
70°	12997.5	12060.3	9851.4	2869.5	755.0	246.7	132.7	115.0	104.6	89.7	78.5
72.5°	9459.9	8482.5	6994.0	2243.5	734.4	252.3	106.5	96.2	86.0	70.1	60.7
75°	5411.1	4771.0	3931.0	1482.0	626.1	241.1	82.3	80.4	61.7	50.5	42.0
77.5°	2795.8	2710.7	2355.6	569.1	300.0	105.5	54.2	46.8	36.4	30.8	25.2
80°	1206.4	1193.2	1032.5	164.4	79.5	58.9	30.8	19.7	16.9	13.0	10.2
82.5°	416.8	416.8	367.2	55.1	35.5	29.0	3.7	0.0	0.0	0.0	0.0
85°	84.1	94.4	66.3	0.0	12.1	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0
2.5°	5603.6	5490.5	5483.1	5412.0	5323.3	5283.1	5259.7	5300.9	5351.3	5357.0	5432.6
5°	4349.7	4231.0	4280.5	4154.3	4179.6	4154.3	4113.2	4120.7	4143.2	4073.1	4159.9
7.5°	3054.5	2964.8	3021.8	2988.2	3033.0	3050.8	3025.6	2988.2	2877.9	2864.9	2940.5
10°	2302.3	2200.5	2139.8	2076.2	2090.3	2119.2	2109.9	2082.8	2012.7	2016.4	2089.4
12.5°	1850.1	1736.1	1615.6	1459.5	1421.3	1442.7	1421.3	1405.3	1338.1	1343.7	1408.1
15°	1403.5	1310.0	1183.9	1058.7	990.4	997.0	937.2	895.1	853.1	802.6	841.9
17.5°	947.5	890.5	853.1	815.8	734.4	715.7	640.1	558.7	527.0	503.7	520.5
20°	670.9	640.1	625.1	623.2	576.5	553.2	479.4	428.9	413.0	408.3	418.6
22.5°	560.6	538.2	516.7	504.6	481.2	454.1	398.1	372.8	361.6	356.0	363.5
25°	487.8	470.9	448.5	428.0	418.6	389.7	349.4	330.8	323.3	317.7	321.5
27.5°	433.5	418.6	392.5	379.3	371.9	346.6	312.1	297.2	290.6	288.7	287.8
30°	390.6	376.5	352.3	337.3	324.3	301.8	281.2	266.3	259.8	257.9	256.0
32.5°	347.6	336.4	320.5	305.5	291.6	271.0	253.2	241.1	230.8	229.0	227.9
35°	293.4	282.2	273.8	272.9	259.8	240.2	227.0	211.2	202.8	200.0	200.9
37.5°	260.7	245.7	227.0	233.6	229.9	215.8	198.0	182.2	173.8	172.0	172.0
40°	240.2	224.2	202.8	191.5	202.8	200.0	172.0	156.0	147.7	146.7	144.9
42.5°	220.5	204.7	180.3	161.6	167.2	175.7	148.6	133.6	125.2	123.3	120.5
45°	206.5	189.7	162.6	141.1	129.9	147.7	127.1	108.4	103.7	100.0	98.1
47.5°	193.4	177.6	146.7	122.4	103.7	106.5	101.8	88.8	83.2	79.5	78.5
50°	182.2	165.3	132.7	104.6	86.0	78.5	82.3	70.1	65.4	61.7	59.8
52.5°	169.2	153.2	117.7	90.6	71.9	61.7	62.6	55.1	50.5	47.7	46.8
55°	158.8	143.0	105.5	79.5	63.5	50.5	44.8	42.9	40.1	38.3	37.4
57.5°	144.9	129.9	93.4	67.3	54.2	41.1	34.6	34.6	33.6	31.8	30.8
59°	136.4	123.3	86.0	60.7	49.6	35.5	30.8	31.8	30.8	29.0	28.0
60°	129.9	117.7	80.4	56.1	46.8	32.7	28.0	29.9	29.0	27.1	26.2
62.5°	115.0	106.5	69.1	46.8	41.1	26.2	23.4	25.2	25.2	24.3	23.4
65°	100.9	91.6	58.9	39.2	38.3	22.5	18.7	22.5	23.4	21.5	19.7
67.5°	87.8	78.5	51.4	31.8	35.5	17.8	14.0	18.7	25.2	19.7	17.8
70°	74.7	65.4	40.1	25.2	37.4	12.1	11.2	16.9	29.9	21.5	16.9
72.5°	57.9	50.5	28.0	18.7	40.1	8.4	8.4	14.0	33.6	23.4	15.9
75°	40.1	32.7	16.9	11.2	32.7	5.6	5.6	13.0	31.8	21.5	14.9
77.5°	23.4	17.8	5.6	0.9	16.9	0.0	0.9	9.3	22.5	13.0	6.5
80°	8.4	3.7	0.0	0.0	10.2	0.0	0.0	0.0	1.9	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0
2.5°	5452.3	5578.4	5691.5	5862.4	6065.2	6298.8	6499.7	6715.5	6918.3	7002.4	7060.3
5°	4177.7	4333.7	4516.0	4767.3	5101.8	5513.9	5899.8	6336.2	6805.2	7039.8	7260.3
7.5°	2953.7	3112.5	3338.6	3605.8	4010.4	4501.1	5005.6	5608.3	6243.7	6614.6	6980.0
10°	2123.9	2319.2	2530.4	2895.7	3306.8	3772.2	4291.7	4964.5	5672.8	6083.8	6524.0
12.5°	1445.5	1667.9	1987.5	2396.8	2879.8	3335.8	3787.1	4429.0	5251.3	5658.8	6130.6
15°	867.1	990.4	1328.8	1802.5	2394.9	2963.0	3457.3	4101.0	4977.5	5476.6	5967.1
17.5°	534.5	591.4	775.5	1164.2	1786.6	2505.1	3182.5	3989.9	5016.8	5624.1	6149.3
20°	426.1	448.5	507.4	687.8	1183.9	2000.6	2873.3	3967.5	5337.3	6084.9	6648.3
22.5°	370.0	391.5	430.7	499.9	744.7	1497.8	2579.9	3988.0	5797.0	6775.3	7433.2
25°	326.1	344.8	382.2	439.1	545.7	1055.0	2265.9	4079.6	6396.0	7632.2	8331.1
27.5°	291.6	307.4	342.0	394.3	468.1	736.3	1910.0	4190.8	7106.1	8508.7	9198.3
30°	259.8	273.8	304.6	353.2	406.4	566.3	1519.4	4266.5	7817.2	9198.3	9817.8
32.5°	232.7	242.9	271.0	312.1	353.2	451.3	1154.9	4254.3	8345.2	9771.9	10263.5
35°	204.7	214.9	239.2	274.7	307.4	372.8	908.3	4027.3	8804.9	10367.2	10773.6
37.5°	173.8	186.9	210.3	242.0	264.5	328.0	734.4	3753.5	9271.1	11047.4	11342.7
40°	147.7	160.7	181.3	215.8	229.9	311.1	564.4	3419.9	9795.3	11808.0	11966.8
42.5°	122.4	134.5	156.0	185.9	216.8	268.2	417.7	3038.7	10299.0	12458.3	12535.9
45°	99.0	111.2	133.6	163.5	231.8	222.4	323.3	2630.3	10705.4	12999.4	13024.6
47.5°	78.5	89.7	113.1	154.2	215.8	177.6	230.8	2309.9	11046.5	13421.7	13355.4
50°	60.7	70.1	94.4	176.6	188.7	146.7	174.8	2203.3	11352.0	13683.4	13511.4
52.5°	47.7	56.1	77.6	165.3	146.7	121.5	146.7	2303.3	11770.7	13900.2	13599.3
55°	38.3	46.8	60.7	94.4	100.0	102.7	125.2	2396.8	12493.0	14408.4	14117.9
57.5°	31.8	40.1	49.6	66.3	75.6	86.9	111.2	2407.0	13344.2	15253.2	14978.4
59°	29.0	36.4	44.8	58.9	66.3	79.5	104.6	2350.9	13644.1	15560.6	15423.3
60°	27.1	34.6	42.0	54.2	61.7	74.7	100.9	2297.7	13657.2	15549.4	15612.9
62.5°	23.4	30.8	37.4	45.8	52.4	63.5	90.6	2100.5	13104.1	15040.1	15498.9
65°	20.6	27.1	33.6	39.2	44.8	57.0	82.3	1740.8	12159.4	14218.8	14718.7
67.5°	18.7	23.4	30.8	34.6	40.1	50.5	72.8	1240.9	10979.2	13214.3	13538.6
70°	16.9	22.5	28.0	31.8	36.4	43.9	62.6	712.9	9271.1	11743.6	11974.4
72.5°	15.9	21.5	25.2	29.9	32.7	39.2	57.0	335.5	6788.5	9407.5	10010.2
75°	14.0	19.7	23.4	28.0	30.8	35.5	48.6	160.7	4515.0	6808.0	7493.0
77.5°	8.4	15.9	21.5	25.2	27.1	30.8	40.1	92.5	2881.6	4712.1	5550.3
80°	0.0	5.6	15.9	21.5	23.4	26.2	30.8	72.8	1541.8	2692.0	3231.2
82.5°	0.0	0.0	11.2	16.9	15.9	17.8	23.4	45.8	695.2	1759.5	1982.8
85°	0.0	0.0	3.7	13.0	11.2	8.4	15.9	15.9	152.3	890.5	1111.0
87.5°	0.0	0.0	0.0	0.9	5.6	3.7	6.5	1.9	0.9	66.3	269.1
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°	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0	6425.0
2.5°	7263.1	7332.2	7449.0	7504.2	7477.1	7362.1	7224.8	7084.6	7002.4	7035.1
5°	7709.8	8065.7	8271.3	8339.5	8225.6	7967.6	7630.3	7185.6	7027.6	6984.7
7.5°	7709.8	8379.7	8804.0	8878.7	8624.5	8119.0	7486.4	6792.2	6561.4	6477.2
10°	7438.8	8350.8	8942.2	9060.9	8705.8	7949.9	7102.4	6310.0	6036.2	5949.3
12.5°	7133.2	8115.3	8738.6	8902.1	8610.5	7781.7	6836.1	5983.9	5661.6	5585.8
15°	6945.4	7825.7	8341.4	8460.0	8336.7	7683.6	6772.5	5885.8	5506.5	5433.5
17.5°	7012.7	7601.3	7787.3	7856.5	7939.6	7649.0	6945.4	6100.7	5620.4	5551.3
20°	7265.9	7364.9	7268.7	7355.6	7579.9	7682.7	7357.5	6620.2	6043.7	5951.2
22.5°	7695.7	7242.5	6972.5	7007.1	7280.0	7793.9	7987.3	7362.1	6696.9	6581.0
25°	8196.6	7341.6	6808.0	6777.2	7057.5	7940.5	8562.9	8169.5	7469.6	7341.6
27.5°	8826.3	7564.0	6774.4	6743.6	6980.0	8077.9	9041.2	8967.4	8283.5	8064.8
30°	9312.2	7782.6	6874.4	6803.4	7057.5	8173.2	9425.3	9644.9	8932.0	8787.1
32.5°	9660.8	8040.6	7037.0	6934.2	7276.2	8337.6	9721.5	10265.4	9531.9	9312.2
35°	9926.1	8320.9	7299.5	7130.4	7577.0	8587.2	9999.0	10925.9	10170.0	9929.9
37.5°	10174.7	8714.3	7709.8	7507.9	8048.9	8989.0	10292.4	11675.4	10883.9	10597.0
40°	10521.4	9159.9	8342.4	8163.0	8842.2	9536.5	10658.7	12456.5	11695.9	11335.3
42.5°	10868.0	9638.4	8989.9	9038.4	9831.7	10201.8	11131.5	13282.5	12497.6	12112.6
45°	11184.8	10131.7	9912.1	10136.4	10750.2	10931.5	11601.5	13760.0	13137.7	12765.8
47.5°	11467.0	10748.4	10828.8	11425.9	11795.0	11592.2	11952.9	14172.1	13614.2	13286.3
50°	11795.0	11546.4	12037.0	12881.6	12997.5	12190.2	12272.4	14659.9	14171.2	13907.6
52.5°	12153.7	12387.3	13375.1	14119.7	14082.4	12839.6	12593.9	15206.5	14934.6	14687.0
55°	12561.2	13066.6	14553.3	15278.4	15246.6	13564.7	13126.4	15882.0	15891.4	15667.1
57.5°	13165.7	13651.6	15353.1	16215.6	16268.8	14401.9	14029.1	16638.9	16756.6	16607.1
59°	13599.3	14031.0	15669.9	16607.1	16823.9	15049.4	14688.8	17078.1	17000.5	16864.1
60°	13920.7	14272.1	15826.9	16811.7	17146.3	15488.7	15175.7	17335.9	17029.4	16864.1
62.5°	14715.8	14797.2	16110.0	17043.5	17517.2	16464.2	16545.4	17775.1	16828.6	16558.5
65°	15086.9	15128.9	16106.3	16628.6	17158.5	17223.8	17788.2	17788.2	16338.0	15923.1
67.5°	14931.8	14729.0	15307.4	15253.2	15782.0	16772.5	18255.4	17136.0	15399.9	14863.5
70°	13670.3	12890.1	12633.1	12656.5	13061.0	14588.8	17330.3	15216.7	13624.5	12997.5
72.5°	11374.5	9502.9	8868.4	9592.6	9698.2	11211.9	14769.1	11459.5	10047.6	9459.9
75°	9148.7	6698.8	5667.2	6431.5	6610.9	8205.0	11425.0	7137.0	5868.9	5411.1
77.5°	6572.5	4808.5	4066.5	4013.3	4245.0	5203.7	8106.9	3591.9	2995.7	2795.8
80°	3733.8	3164.8	3407.8	3215.2	3332.1	3253.6	3851.6	1575.4	1290.4	1206.4
82.5°	2253.8	1870.6	2025.7	1686.6	2134.2	1858.5	1483.9	504.6	438.2	416.8
85°	1466.1	1022.3	532.6	357.0	735.4	1187.6	331.7	137.4	105.5	84.1
87.5°	505.6	260.7	26.2	11.2	78.5	221.4	12.1	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)