

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: P193043

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27738.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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: 25 FT

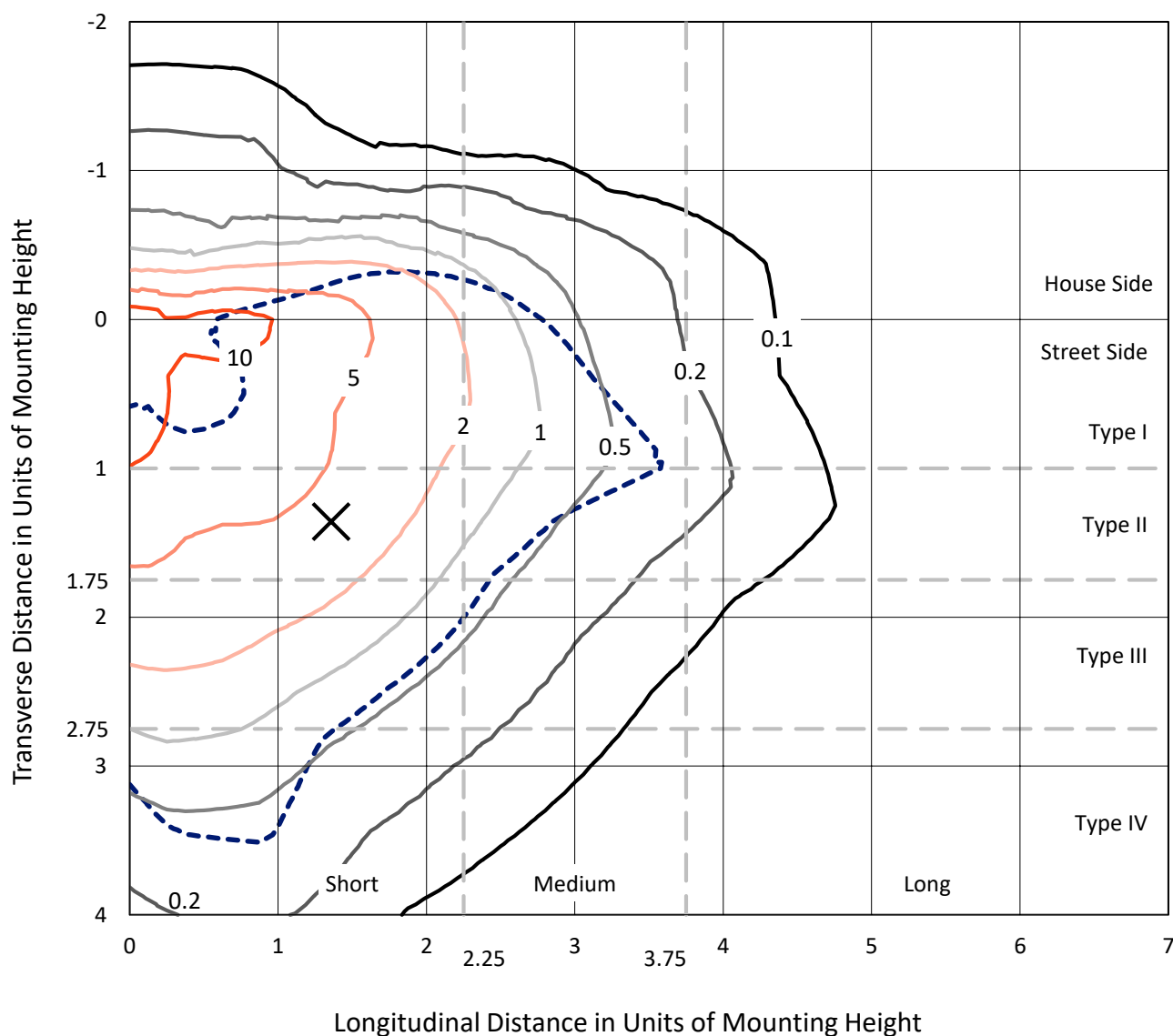


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

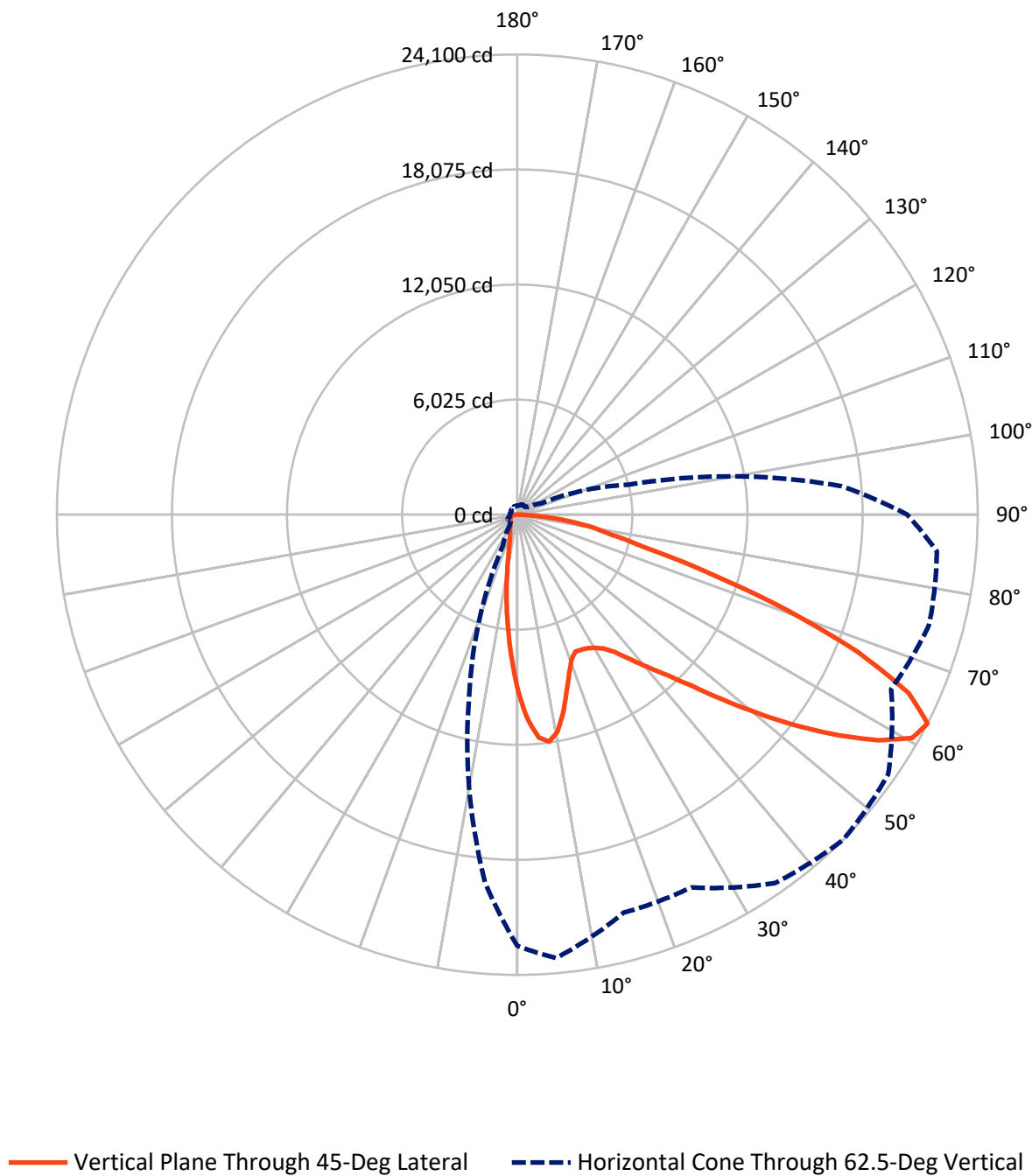


Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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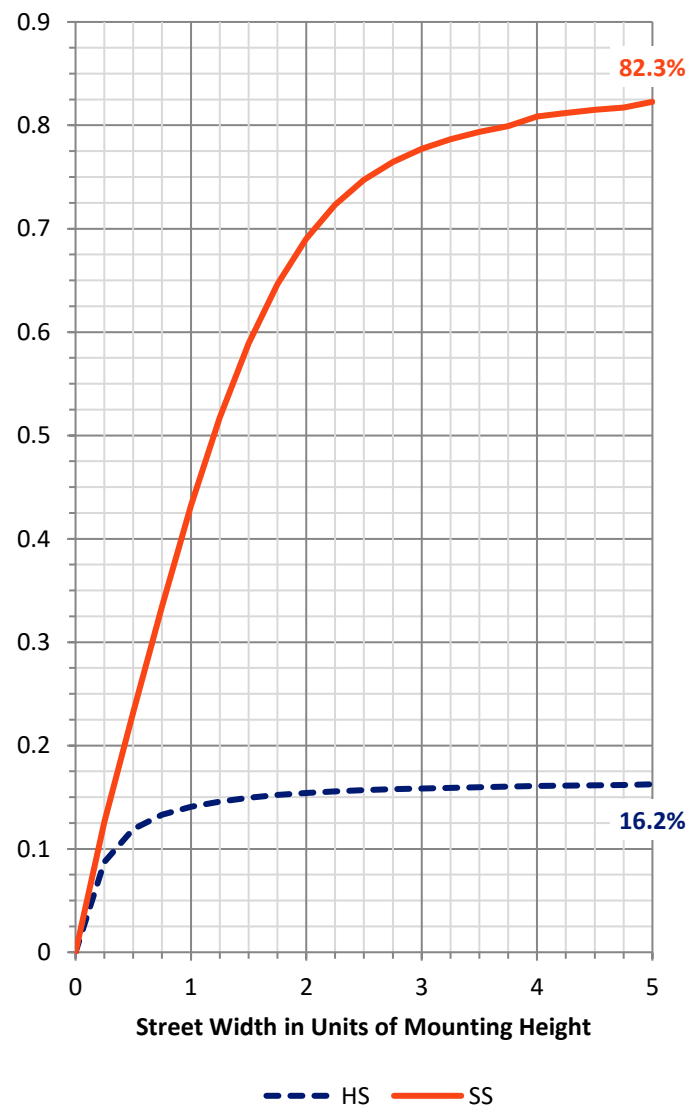
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4590.4	0.0	4590.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23148.4	0.0	23148.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	27738.7	0.0	27738.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.2	2.5
10°-20°	1251.0	4.5
20°-30°	1823.9	6.6
30°-40°	2809.1	10.1
40°-50°	4134.3	14.9
50°-60°	6064.2	21.9
60°-70°	6778.9	24.4
70°-80°	3318.8	12.0
80°-90°	876.3	3.2
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°	27738.7	100.0
0°-180°	27738.7	100.0

Coefficient of Utilization



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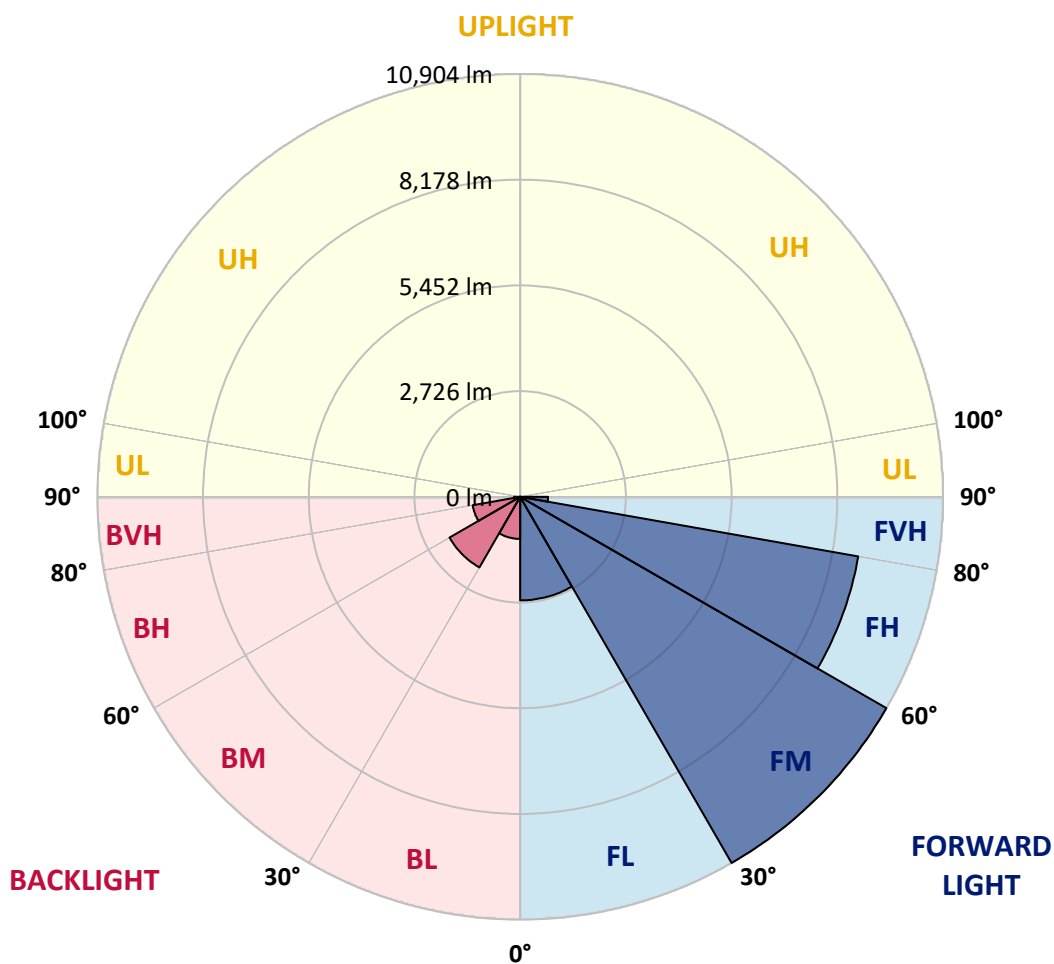
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2671.1	9.6			
FM	(30°-60°)	10904.3	39.3			
FH	(60°-80°)	8853.2	31.9			G4/12000
FVH	(80°-90°)	719.6	2.6			G4/750
BL	(0°-30°)	1086.0	3.9	B3/2500		
BM	(30°-60°)	2103.3	7.6	B2/2500		
BH	(60°-80°)	1244.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	156.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	9737.6	9893.1	10196.6	10423.8	10699.8	10763.7	10852.2	10765.4	10611.4	10407.1	10339.9
5°	9156.7	9489.0	10225.6	10873.6	11450.1	11718.4	11793.1	11571.9	11125.3	10538.2	10179.8
7.5°	8224.9	8697.7	9694.9	10649.5	11498.8	12000.5	11988.3	11474.4	10652.4	9696.4	9121.6
10°	7421.3	7961.1	9104.8	10172.1	11073.3	11559.7	11372.2	10715.0	9734.6	8633.6	8010.1
12.5°	6971.5	7500.6	8661.1	9733.1	10486.2	10654.0	10510.7	9867.2	8943.2	7830.1	7284.1
15°	6893.8	7474.8	8484.2	9356.4	9778.8	9632.4	9461.7	9173.4	8520.8	7570.8	7002.1
17.5°	7230.8	7871.2	8686.9	9094.0	9022.4	8767.8	8719.0	8751.0	8594.0	7859.0	7203.4
20°	7877.3	8645.8	9170.3	8970.6	8447.6	8096.8	8109.1	8598.6	9063.6	8589.4	7840.7
22.5°	8784.6	9661.4	9867.2	9036.2	8205.2	7788.9	7889.5	8682.4	9812.3	9656.8	8700.8
25°	9958.7	10757.6	10609.8	9274.0	8229.5	7827.0	7907.7	8972.2	10696.7	10724.2	9765.0
27.5°	11096.3	11837.2	11233.5	9589.6	8330.2	7916.9	8023.7	9428.1	11541.5	11883.0	10981.8
30°	11983.7	12499.0	11480.5	9877.9	8528.4	8092.3	8224.9	9861.0	11925.7	12665.4	11918.1
32.5°	12718.7	13089.1	11873.9	10234.8	8892.8	8368.2	8601.6	10387.2	12479.3	13409.4	12834.5
35°	13658.0	13763.2	12363.3	10632.7	9455.6	8848.6	9138.3	10902.6	13006.9	14161.2	13737.2
37.5°	14758.8	14623.1	12825.4	11177.0	10182.9	9600.4	9839.8	11468.3	13441.4	15013.6	14659.8
40°	15847.6	15521.3	13404.8	12021.8	11244.1	10486.2	10769.9	12072.2	13847.1	15867.4	15560.9
42.5°	16773.2	16289.8	13976.7	12950.4	12232.2	11463.7	11802.1	12680.5	14234.3	16596.3	16343.2
45°	17457.9	16857.1	14521.0	13842.5	13593.9	12762.9	12922.9	13377.3	14653.7	17204.7	16986.6
47.5°	18069.3	17427.4	15137.0	14742.2	14784.9	14452.4	14194.8	14188.6	15147.7	17701.8	17595.1
50°	18888.2	18218.8	15798.8	15669.2	16571.9	16350.8	15782.1	15135.4	15772.8	18266.0	18253.8
52.5°	20016.6	19472.1	16607.0	16667.9	18240.1	18384.9	17680.5	16273.1	16751.8	19301.4	19228.2
55°	21350.8	21033.6	17707.8	17816.2	20286.3	20390.1	19690.1	17695.7	18191.3	20800.2	20597.4
57.5°	22392.2	22325.2	18915.6	19194.6	21814.2	22280.9	21637.3	19342.5	19813.7	22062.8	21553.6
60°	22807.0	23131.8	20201.1	20585.3	23227.9	23744.8	23180.6	20789.7	21251.7	22585.8	21488.0
62.5°	22582.8	23308.6	21570.3	21538.3	23543.5	24100.1	23703.6	21594.8	22317.6	22046.2	20400.8
65°	21547.4	22672.8	22364.8	21292.8	22463.9	22509.6	22381.5	21234.9	22569.1	20339.8	18299.5
67.5°	19292.2	20911.5	21318.7	19188.5	19551.4	19254.1	19039.1	19264.8	21257.7	17782.6	15379.5
70°	15713.4	18150.1	18345.2	15347.4	15182.7	14983.0	14554.5	15794.3	18670.1	14574.4	12203.2
72.5°	11553.7	14115.4	14714.7	11256.3	10494.0	10535.1	10196.6	11902.9	15179.7	10826.3	9110.9
75°	7904.8	10220.9	11512.5	7854.4	6939.5	6956.3	6913.6	8433.8	12090.4	7531.1	6817.6
77.5°	5774.6	7302.5	8682.4	5280.5	5126.5	5031.9	5009.1	5901.1	9269.4	5468.1	5294.2
80°	4634.0	5394.9	5832.5	3659.6	3935.6	3928.0	3801.4	4057.6	6053.6	3999.7	3960.0
82.5°	3214.4	4146.1	4725.5	2868.2	2656.3	2612.1	2642.6	3022.2	4278.7	2734.0	2599.9
85°	1695.6	2753.9	4679.7	2541.9	1576.7	1258.0	1564.5	2474.8	3706.8	1448.6	1268.6
87.5°	216.6	796.0	3098.5	1014.0	622.1	335.4	742.6	1393.7	2380.3	295.8	257.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	10167.5	9964.8	9699.5	9453.9	9199.3	8946.2	8615.3	8407.9	8264.6	8237.2	8176.2
5°	9920.6	9246.6	8737.4	8296.6	7897.2	7332.9	7020.4	6761.1	6622.3	6608.6	6575.1
7.5°	8781.5	7851.4	7163.7	6540.0	5974.3	5518.3	5015.2	4780.3	4684.3	4707.2	4730.1
10°	7596.7	6556.7	5766.9	5129.5	4631.0	4246.7	3842.5	3569.6	3380.6	3342.5	3334.8
12.5°	6730.6	5590.0	4823.0	4373.2	3987.4	3626.1	3197.6	2875.8	2630.3	2546.5	2490.0
15°	6364.7	5117.3	4313.8	3828.9	3403.4	2944.4	2546.5	2209.4	1983.8	1910.6	1869.4
17.5°	6442.5	4986.3	3963.1	3342.5	2798.0	2319.2	1817.6	1529.4	1393.7	1358.6	1358.6
20°	6851.1	4961.8	3673.3	2894.2	2215.6	1660.5	1248.9	1084.2	1039.9	1035.3	1047.6
22.5°	7424.3	5047.2	3456.9	2505.4	1721.5	1212.2	972.9	911.9	892.0	896.6	910.3
25°	8278.3	5335.3	3299.7	2159.2	1351.0	992.6	867.6	831.0	821.8	834.0	850.9
27.5°	9290.9	5623.6	3202.2	1898.4	1140.5	907.3	824.9	786.7	792.9	808.2	823.4
30°	10179.8	5859.9	3048.2	1712.4	1075.0	911.9	824.9	773.1	767.0	770.1	774.6
32.5°	10977.3	6020.0	2868.2	1535.5	927.1	809.7	770.1	762.4	728.9	716.6	718.2
35°	11664.9	6020.0	2760.0	1431.9	831.0	718.2	654.1	616.0	599.3	600.8	617.6
37.5°	12328.3	5899.6	2706.6	1373.8	779.2	683.1	626.7	593.2	570.4	565.8	568.8
40°	12913.8	5724.2	2645.6	1349.5	739.5	661.8	608.3	580.9	556.5	548.9	550.4
42.5°	13383.5	5582.4	2578.5	1317.4	715.1	646.5	596.2	571.9	544.3	536.8	535.3
45°	13891.2	5535.2	2490.0	1253.4	727.3	648.0	593.2	567.3	539.7	530.7	527.6
47.5°	14560.7	5683.0	2398.6	1177.2	753.3	655.7	597.7	567.3	538.3	530.7	527.6
50°	15403.9	6030.7	2282.7	1065.9	727.3	677.1	596.2	562.6	538.3	530.7	524.6
52.5°	16486.5	6500.4	2130.2	937.8	712.2	728.9	593.2	553.5	530.7	520.0	509.2
55°	17802.4	6884.7	1948.7	832.5	677.1	715.1	588.6	542.8	518.4	503.2	494.1
57.5°	18766.2	7023.4	1715.5	763.9	628.2	692.2	582.5	529.2	503.2	491.0	478.8
60°	18575.6	6755.1	1518.7	721.2	599.3	625.2	577.9	516.9	489.5	480.3	469.6
62.5°	17049.2	6053.6	1392.2	701.5	580.9	570.4	582.5	504.7	477.3	468.1	465.1
65°	14760.4	5018.3	1341.8	696.8	565.8	538.3	541.3	491.0	463.6	455.9	452.9
67.5°	12175.9	4049.9	1297.7	712.2	545.9	515.3	500.2	472.6	449.8	442.2	436.1
70°	9601.9	3368.4	1277.8	703.0	521.5	492.5	475.8	452.9	433.1	425.4	420.8
72.5°	7732.5	2845.3	1267.2	693.8	489.5	462.0	446.8	426.9	405.6	402.5	398.0
75°	6543.1	2237.0	1160.5	664.9	452.9	425.4	414.7	396.5	375.1	375.1	372.0
77.5°	5047.2	1617.8	965.2	588.6	414.7	384.3	375.1	361.4	336.9	341.6	340.1
80°	3728.3	1055.2	754.8	488.0	367.4	338.4	333.9	320.2	294.4	300.4	300.4
82.5°	2554.2	692.2	542.8	399.6	314.1	286.7	286.7	272.9	243.9	247.0	256.2
85°	1282.3	475.8	405.6	309.5	243.9	230.2	230.2	219.6	190.6	192.1	204.4
87.5°	390.4	286.7	268.3	221.1	175.4	172.3	164.7	157.0	138.8	137.2	144.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	8083.1	7996.2	7891.0	7659.3	7581.5	7576.9	7647.0	7573.9	7714.1	7654.7	7720.3
5°	6518.6	6433.3	6315.8	6020.0	5840.1	5718.1	5660.1	5489.4	5612.8	5522.9	5597.7
7.5°	4794.1	4813.9	4736.2	4562.3	4170.4	3973.8	3857.8	3754.1	3844.1	3835.0	3978.3
10°	3369.9	3423.2	3368.4	3193.0	2875.8	2767.5	2789.0	2830.2	2947.5	3008.5	3229.6
12.5°	2426.0	2423.0	2387.9	2230.8	2022.0	2034.1	2121.0	2192.8	2301.0	2365.0	2590.6
15°	1811.5	1784.1	1768.8	1640.7	1521.8	1547.6	1590.4	1598.0	1666.6	1704.8	1887.8
17.5°	1369.3	1383.0	1399.8	1308.3	1218.4	1201.6	1168.0	1126.9	1146.6	1154.4	1245.8
20°	1087.2	1142.1	1183.3	1119.3	1027.7	979.0	936.3	908.8	908.8	907.3	933.2
22.5°	950.0	989.7	1033.8	989.7	907.3	864.6	840.2	818.8	815.8	815.8	840.2
25°	875.2	904.2	947.0	916.4	855.4	823.4	800.6	773.1	762.4	759.4	776.2
27.5°	838.7	850.9	872.2	844.8	792.9	777.7	771.6	747.3	733.4	725.8	742.6
30°	776.2	773.1	774.6	747.3	706.1	704.5	715.1	719.7	715.1	713.6	739.5
32.5°	718.2	712.2	710.6	686.1	648.0	638.9	648.0	657.2	667.9	683.1	713.6
35°	644.9	660.3	669.4	648.0	602.3	574.8	564.3	547.4	538.3	538.3	573.4
37.5°	587.0	622.1	635.9	616.0	565.8	527.6	509.2	506.2	507.7	513.8	547.4
40°	567.3	593.2	605.4	585.5	535.3	500.2	489.5	486.4	489.5	498.7	532.2
42.5°	555.0	573.4	571.9	547.4	506.2	481.9	475.8	472.6	475.8	484.9	521.5
45°	544.3	556.5	544.3	515.3	477.3	465.1	466.6	465.1	468.1	477.3	512.3
47.5°	535.3	539.7	524.6	495.6	455.9	452.9	459.0	463.6	466.6	474.1	510.8
50°	521.5	521.5	507.7	477.3	437.6	439.1	446.8	457.5	459.0	468.1	497.1
52.5°	504.7	503.2	494.1	465.1	422.4	426.9	426.9	439.1	442.2	452.9	483.4
55°	491.0	488.0	483.4	455.9	408.6	416.3	411.7	416.3	423.9	434.6	468.1
57.5°	478.8	472.6	472.6	448.3	398.0	401.0	390.4	396.5	405.6	414.7	449.8
60°	466.6	460.5	463.6	437.6	381.2	378.1	373.5	385.8	388.9	399.6	434.6
62.5°	452.9	448.3	449.8	425.4	369.0	361.4	361.4	372.0	373.5	388.9	422.4
65°	442.2	436.1	434.6	413.2	355.3	346.2	350.7	355.3	358.4	373.5	405.6
67.5°	431.6	419.3	419.3	402.5	340.1	330.8	340.1	338.4	343.1	356.8	382.7
70°	417.8	401.0	402.5	395.0	324.8	314.1	321.8	320.2	323.3	332.3	358.4
72.5°	396.5	382.7	385.8	382.7	309.5	294.4	297.3	297.3	297.3	305.0	332.3
75°	369.0	358.4	367.4	375.1	291.2	269.9	272.9	272.9	268.3	272.9	306.5
77.5°	335.4	329.4	359.9	349.2	269.9	243.9	243.9	240.9	231.7	237.8	274.5
80°	298.9	294.4	332.3	292.9	245.5	212.0	208.9	201.2	192.1	196.6	233.3
82.5°	260.7	256.2	279.0	224.2	212.0	175.4	167.7	154.0	144.9	149.4	183.0
85°	213.5	213.5	215.0	169.3	161.6	134.2	125.0	106.7	96.0	99.1	131.1
87.5°	152.5	157.0	144.9	116.0	96.0	74.8	68.7	57.9	48.8	56.4	68.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6	9371.6
2.5°	8055.6	8223.4	8414.0	8658.0	8866.9	9210.0	9539.4	9737.6
5°	6023.1	6302.2	6649.8	7096.6	7512.8	8138.0	8758.7	9156.7
7.5°	4310.8	4609.5	4984.7	5542.8	6131.4	6928.9	7749.2	8224.9
10°	3566.6	3873.1	4188.7	4565.4	5047.2	5914.9	6884.7	7421.3
12.5°	2950.5	3278.5	3618.4	4014.8	4461.7	5236.2	6354.0	6971.5
15°	2258.3	2624.2	3025.3	3527.0	4086.6	4981.6	6222.9	6893.8
17.5°	1547.6	1956.4	2448.9	3068.0	3752.6	4899.3	6457.7	7230.8
20°	1065.9	1363.2	1889.3	2615.1	3438.5	4888.6	6909.0	7877.3
22.5°	892.0	1024.8	1408.9	2198.9	3202.2	5019.8	7609.0	8784.6
25°	824.9	904.2	1125.4	1837.4	3029.9	5321.7	8572.6	9958.7
27.5°	785.2	856.9	1021.7	1601.0	2894.2	5672.4	9510.4	11096.3
30°	800.6	873.7	992.6	1480.6	2709.6	5965.1	10342.9	11983.7
32.5°	721.2	753.3	850.9	1373.8	2577.0	6210.7	11071.8	12718.7
35°	614.5	671.0	759.4	1323.5	2580.0	6375.4	11866.3	13658.0
37.5°	585.5	642.0	706.1	1305.2	2615.1	6550.7	12778.1	14758.8
40°	567.3	619.1	674.0	1294.6	2648.7	6710.8	13671.7	15847.6
42.5°	555.0	602.3	671.0	1258.0	2665.4	6854.2	14406.6	16773.2
45°	553.5	602.3	683.1	1221.4	2691.4	7008.1	15022.7	17457.9
47.5°	555.0	622.1	660.3	1177.2	2691.4	7265.8	15745.5	18069.3
50°	548.9	655.7	635.9	1114.7	2628.8	7753.8	16736.6	18888.2
52.5°	545.9	651.0	588.6	1018.7	2520.5	8528.4	18006.8	20016.6
55°	538.3	628.2	555.0	875.2	2394.0	9373.2	19367.0	21350.8
57.5°	530.7	556.5	536.8	750.2	2198.9	9967.8	20303.2	22392.2
60°	594.7	486.4	521.5	689.2	1938.0	10130.9	20266.6	22807.0
62.5°	550.4	455.9	501.7	675.6	1755.0	9673.6	19330.3	22582.8
65°	431.6	436.1	481.9	715.1	1706.3	8461.4	17671.4	21547.4
67.5°	395.0	416.3	462.0	765.5	1710.9	6774.8	15192.0	19292.2
70°	372.0	395.0	439.1	791.4	1723.0	5050.3	12011.1	15713.4
72.5°	346.2	365.9	413.2	796.0	1643.8	3668.7	9257.3	11553.7
75°	315.6	333.9	376.6	693.8	1361.7	2544.9	7081.3	7904.8
77.5°	280.6	294.4	330.8	535.3	1010.9	1628.5	5315.6	5774.6
80°	239.4	247.0	277.5	391.9	692.2	1018.7	4205.5	4634.0
82.5°	192.1	195.1	215.0	294.4	449.8	654.1	2816.3	3214.4
85°	135.7	135.7	147.9	213.5	306.5	414.7	1529.4	1695.6
87.5°	64.0	65.5	65.5	117.5	160.1	210.5	352.3	216.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)