

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: P194665

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194665
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-07-LED-E1-SLR-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29894 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

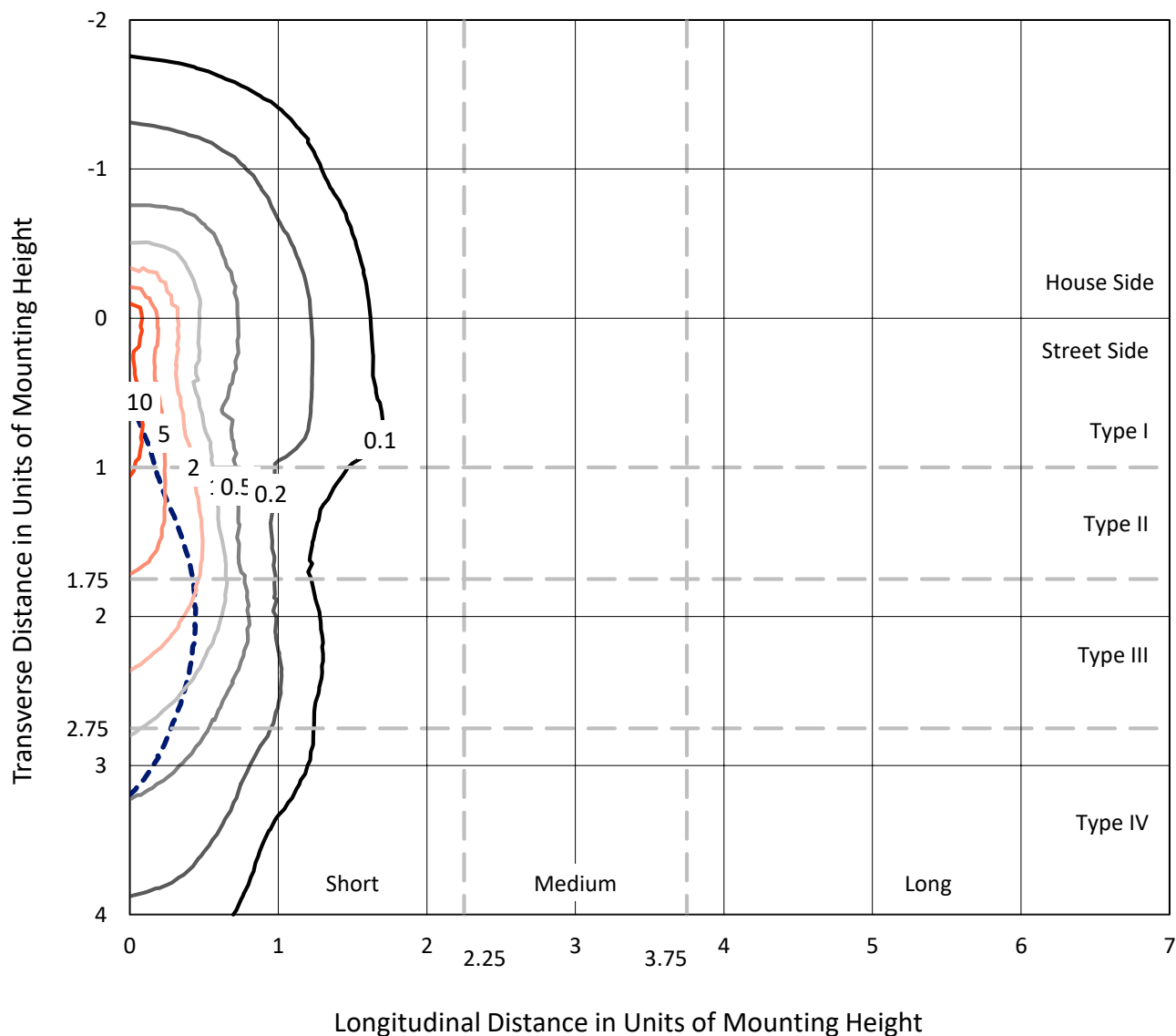


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

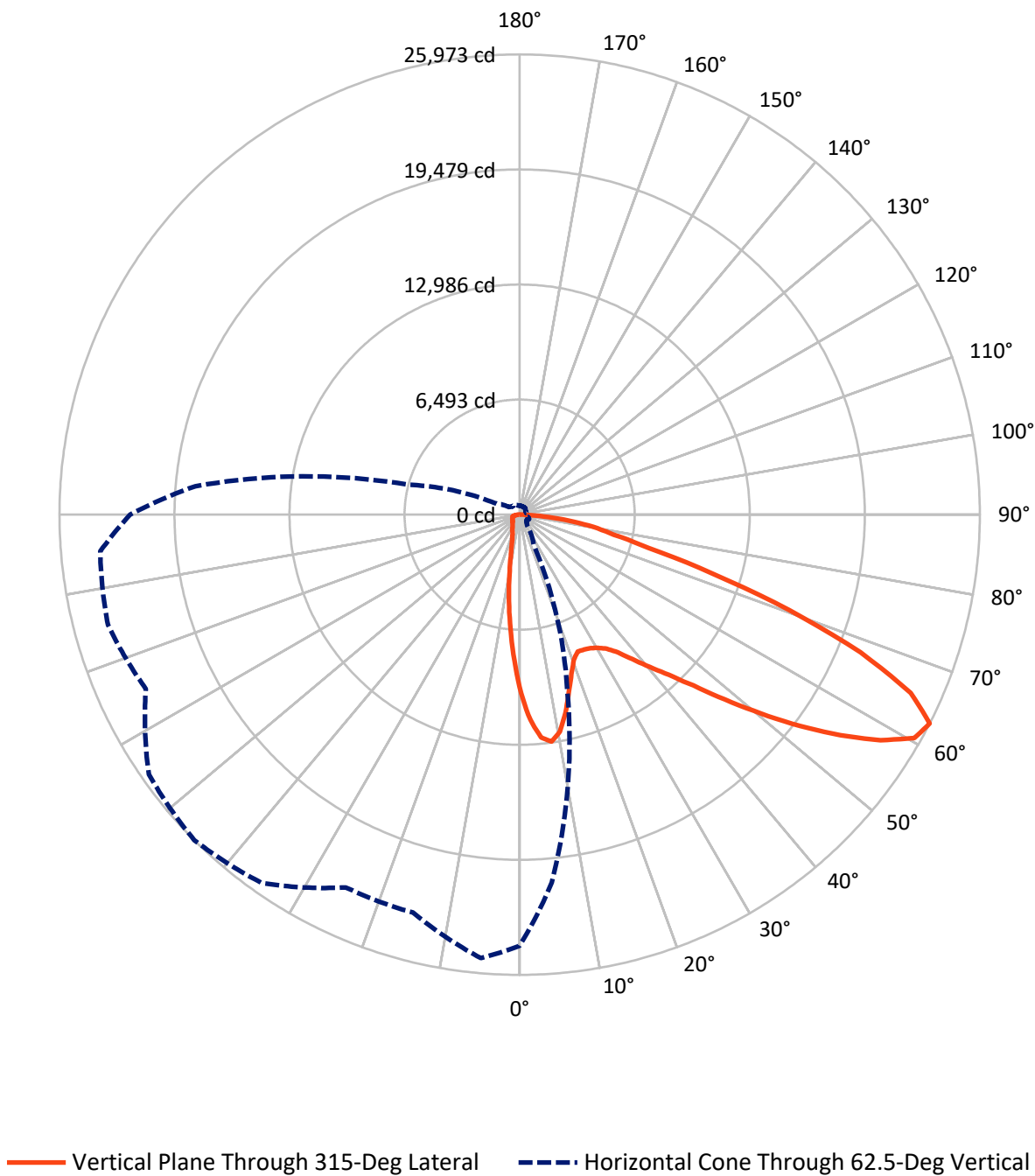


Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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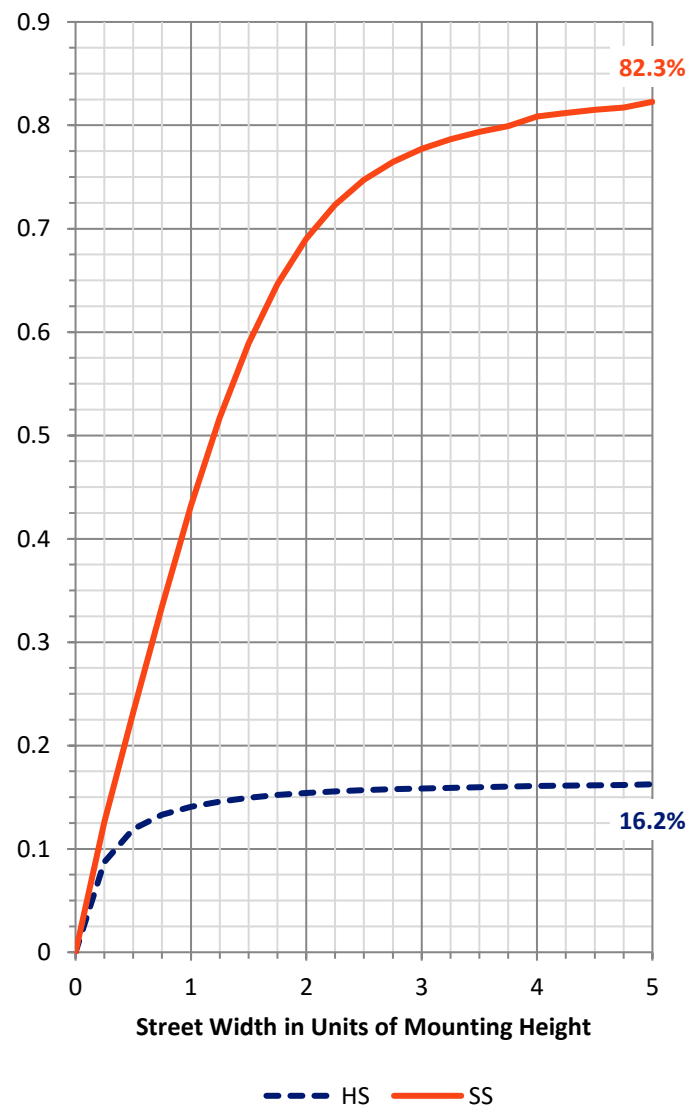
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4947.0	0.0	4947.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24947.0	0.0	24947.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	29894.0	0.0	29894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.2	2.5
10°-20°	1348.2	4.5
20°-30°	1965.7	6.6
30°-40°	3027.4	10.1
40°-50°	4455.5	14.9
50°-60°	6535.3	21.9
60°-70°	7305.6	24.4
70°-80°	3576.7	12.0
80°-90°	944.3	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°	29894.0	100.0
0°-180°	29894.0	100.0

Coefficient of Utilization



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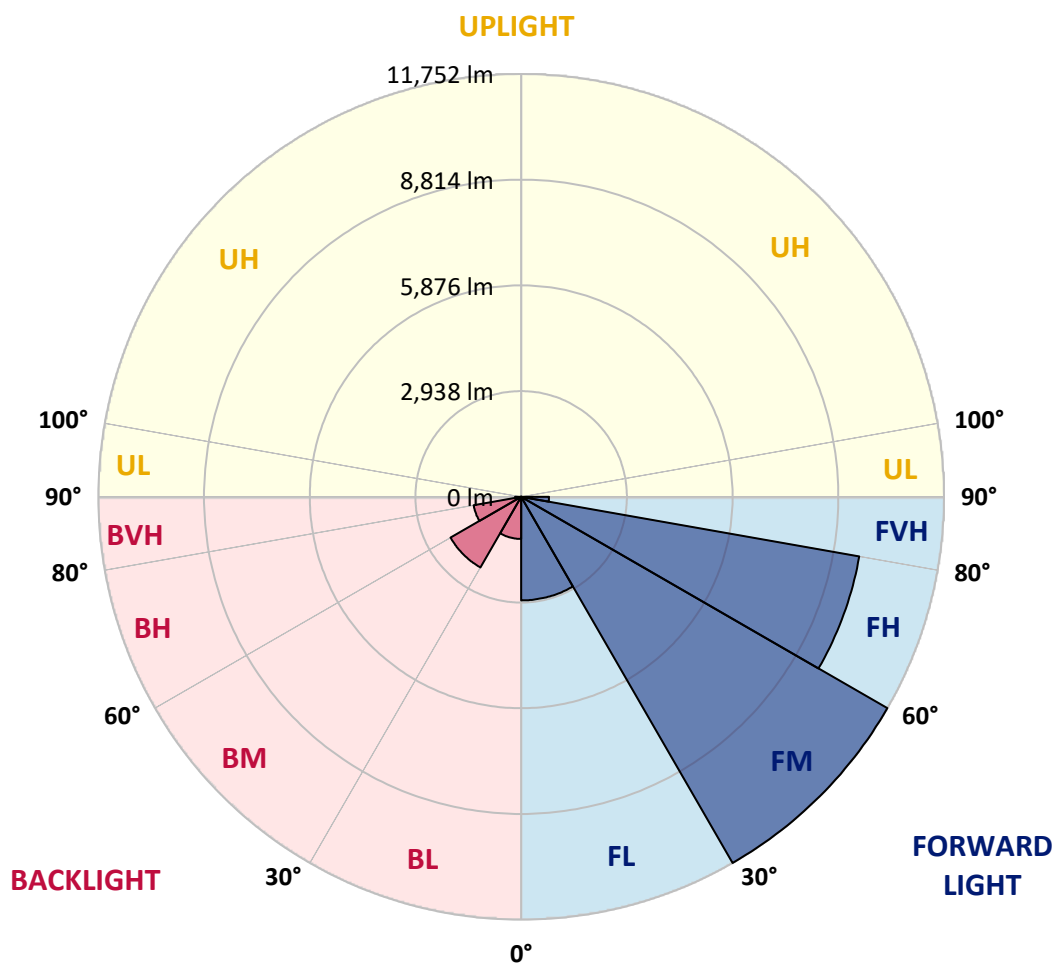
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2878.7	9.6			
FM	(30°-60°)	11751.6	39.3			
FH	(60°-80°)	9541.1	31.9			G4/12000
FVH	(80°-90°)	775.5	2.6			G5
BL	(0°-30°)	1170.4	3.9	B3/2500		
BM	(30°-60°)	2266.7	7.6	B2/2500		
BH	(60°-80°)	1341.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	168.8	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	10494.2	10280.6	9925.6	9555.9	9330.7	9067.8	8862.4	8681.6	8320.1	8249.4	8313.5
5°	9868.1	9439.2	8770.4	8096.6	7648.0	7166.5	6791.8	6491.1	6032.6	5952.1	6049.0
7.5°	8864.0	8351.3	7467.2	6607.8	5973.4	5372.0	4967.7	4645.6	4287.4	4132.9	4142.8
10°	7998.0	7419.6	6374.4	5439.4	4920.1	4514.2	4174.0	3843.7	3480.5	3242.3	3176.5
12.5°	7513.2	6847.7	5643.1	4808.3	4326.8	3899.6	3533.1	3179.8	2792.0	2548.8	2479.8
15°	7429.4	6706.4	5368.7	4404.1	3801.0	3260.3	2828.1	2433.7	2034.4	1837.2	1796.1
17.5°	7792.6	6959.4	5280.0	4044.2	3306.3	2639.2	2108.4	1668.0	1342.6	1244.0	1235.8
20°	8489.4	7445.9	5268.5	3705.7	2818.3	2036.1	1469.1	1148.7	1005.7	977.8	979.4
22.5°	9467.1	8200.1	5409.8	3451.0	2369.7	1518.4	1104.3	961.3	905.5	879.2	879.2
25°	10732.5	9238.7	5735.2	3265.3	1980.2	1212.8	974.5	889.0	836.4	818.4	821.7
27.5°	11958.4	10249.3	6113.1	3119.0	1725.5	1101.0	923.5	846.3	800.3	782.2	790.4
30°	12914.8	11146.6	6428.6	2920.2	1595.7	1069.8	941.6	862.7	797.0	769.1	770.7
32.5°	13706.9	11932.1	6693.2	2777.2	1480.6	917.0	811.8	777.3	769.1	736.2	719.8
35°	14719.2	12788.3	6870.7	2780.5	1426.4	818.4	723.1	662.3	617.9	580.1	580.1
37.5°	15905.6	13771.0	7059.7	2818.3	1406.7	760.9	691.8	631.0	589.9	553.8	547.2
40°	17079.0	14733.9	7232.2	2854.4	1395.2	726.3	667.2	611.3	573.5	537.4	527.5
42.5°	18076.4	15526.0	7386.7	2872.5	1355.7	723.1	649.1	598.2	562.0	522.6	512.7
45°	18814.3	16189.9	7552.7	2900.4	1316.3	736.2	649.1	596.5	552.2	514.4	504.5
47.5°	19473.3	16968.9	7830.4	2900.4	1268.6	711.6	670.5	598.2	550.5	511.1	502.9
50°	20355.7	18037.0	8356.2	2833.1	1201.3	685.3	706.6	591.6	535.7	504.5	494.6
52.5°	21571.8	19405.9	9191.1	2716.4	1097.7	634.3	701.7	588.3	520.9	488.1	476.6
55°	23009.7	20871.7	10101.4	2580.0	943.3	598.2	677.0	580.1	504.5	468.3	456.8
57.5°	24132.1	21880.7	10742.3	2369.7	808.5	578.4	599.8	571.9	484.8	447.0	437.1
60°	24579.0	21841.3	10918.2	2088.7	742.8	562.0	524.2	640.9	468.3	430.5	419.0
62.5°	24337.5	20832.3	10425.2	1891.5	728.0	540.7	491.4	593.2	455.2	419.0	402.6
65°	23221.7	19044.4	9118.7	1838.9	770.7	519.3	470.0	465.1	437.1	402.6	386.2
67.5°	20791.2	16372.3	7301.2	1843.8	824.9	497.9	448.6	425.6	412.5	384.5	369.7
70°	16934.3	12944.4	5442.7	1856.9	852.9	473.3	425.6	401.0	386.2	358.2	348.4
72.5°	12451.4	9976.6	3953.8	1771.5	857.8	445.3	394.4	373.0	358.2	328.7	320.4
75°	8518.9	7631.5	2742.7	1467.5	747.7	405.9	359.9	340.2	330.3	294.2	289.2
77.5°	6223.2	5728.6	1755.1	1089.5	576.8	356.6	317.2	302.4	295.8	256.4	249.8
80°	4994.0	4532.3	1097.7	746.1	422.3	299.1	266.2	258.0	251.4	212.0	207.1
82.5°	3464.1	3035.2	705.0	484.8	317.2	231.7	210.3	207.1	197.2	161.0	156.1
85°	1827.4	1648.2	447.0	330.3	230.1	159.4	146.3	146.3	141.3	106.8	103.5
87.5°	233.4	379.6	226.8	172.5	126.5	70.7	70.7	69.0	73.9	60.8	52.6
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°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	8162.3	8241.2	8165.6	8170.6	8254.4	8504.1	8617.5	8711.2	8811.4	8877.2	8906.8
5°	5915.9	6100.0	6162.4	6293.9	6487.8	6806.6	6933.1	7025.2	7086.0	7122.1	7136.9
7.5°	4045.8	4157.6	4282.5	4494.5	4916.8	5104.1	5187.9	5166.6	5097.6	5072.9	5048.3
10°	3050.0	3005.6	2982.6	3099.3	3441.1	3630.1	3689.2	3631.7	3593.9	3602.1	3643.2
12.5°	2363.1	2285.8	2192.2	2179.0	2404.2	2573.4	2611.2	2614.5	2683.5	2744.3	2834.7
15°	1722.2	1714.0	1668.0	1640.0	1768.2	1906.2	1922.7	1952.3	2014.7	2059.1	2138.0
17.5°	1214.4	1258.8	1294.9	1313.0	1410.0	1508.6	1490.5	1475.7	1464.2	1464.2	1502.0
20°	979.4	1009.0	1055.0	1107.6	1206.2	1275.2	1230.8	1171.7	1129.0	1115.8	1120.7
22.5°	882.5	905.5	931.8	977.8	1066.5	1114.2	1066.5	1023.8	981.1	966.3	961.3
25°	833.2	862.7	887.4	921.9	987.6	1020.5	974.5	943.3	917.0	898.9	885.7
27.5°	805.2	831.5	838.1	854.5	910.4	940.0	917.0	903.8	887.4	871.0	854.5
30°	775.6	770.7	759.2	760.9	805.2	834.8	833.2	836.4	834.8	829.9	826.6
32.5°	708.3	698.4	688.5	698.4	739.5	765.8	767.4	774.0	774.0	772.4	785.5
35°	589.9	608.0	619.5	649.1	698.4	721.4	711.6	695.1	665.5	647.5	645.8
37.5°	545.6	548.9	568.6	609.7	663.9	685.3	670.5	632.7	613.0	609.7	614.6
40°	524.2	527.5	539.0	576.8	631.0	652.4	639.2	611.3	593.2	591.6	599.8
42.5°	509.4	512.7	519.3	545.6	589.9	616.2	617.9	598.2	576.8	578.4	586.7
45°	501.2	502.9	501.2	514.4	555.4	586.7	599.8	586.7	568.6	571.9	581.7
47.5°	499.6	494.6	488.1	491.4	534.1	565.3	581.7	576.8	568.6	571.9	580.1
50°	493.0	481.5	473.3	471.6	514.4	547.2	562.0	562.0	565.3	571.9	580.1
52.5°	473.3	460.1	460.1	455.2	501.2	532.4	542.3	543.9	548.9	560.4	571.9
55°	448.6	443.7	448.6	440.4	491.4	520.9	525.9	529.1	532.4	542.3	558.7
57.5°	427.3	420.7	432.2	428.9	483.1	509.4	509.4	516.0	516.0	529.1	542.3
60°	415.8	402.6	407.5	410.8	471.6	499.6	496.3	502.9	506.1	517.6	527.5
62.5°	401.0	389.5	389.5	397.7	458.5	484.8	483.1	488.1	501.2	504.5	514.4
65°	382.9	378.0	373.0	382.9	445.3	468.3	470.0	476.6	488.1	491.4	499.6
67.5°	364.8	366.5	356.6	366.5	433.8	451.9	451.9	465.1	470.0	476.6	484.8
70°	345.1	346.7	338.5	350.0	425.6	433.8	432.2	450.3	453.6	458.5	466.7
72.5°	320.4	320.4	317.2	333.6	412.5	415.8	412.5	427.3	428.9	433.8	437.1
75°	294.2	294.2	290.9	313.9	404.3	396.0	386.2	397.7	401.0	404.3	404.3
77.5°	259.6	262.9	262.9	290.9	376.3	387.8	355.0	361.5	366.5	368.1	363.2
80°	216.9	225.1	228.4	264.6	315.5	358.2	317.2	322.1	323.7	323.7	317.2
82.5°	166.0	180.8	189.0	228.4	241.6	300.7	276.1	281.0	276.1	266.2	262.9
85°	115.0	134.8	144.6	174.2	182.4	231.7	230.1	230.1	220.2	207.1	205.4
87.5°	62.4	73.9	80.5	103.5	124.9	156.1	169.3	164.3	156.1	147.9	149.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	9061.2	9284.7	9641.3	9914.1	10188.5	10453.1	10739.1	10957.6	11143.3	11215.6	11435.8
5°	7286.5	7565.8	7902.7	8510.7	8941.3	9416.2	9965.1	10691.4	10970.8	11356.9	11989.6
7.5°	5151.8	5404.9	5947.2	6438.5	7048.2	7720.3	8461.4	9463.8	9830.3	10449.8	11480.2
10°	3847.0	4141.1	4576.6	4990.7	5528.1	6215.0	7066.2	8187.0	8632.3	9304.4	10490.9
12.5°	3099.3	3446.0	3907.8	4297.3	4713.0	5197.8	6024.4	7253.6	7850.1	8438.4	9638.0
15°	2381.2	2744.3	3173.2	3667.9	4126.4	4648.9	5515.0	6859.2	7546.1	8159.1	9182.8
17.5°	1648.2	1958.8	2499.5	3015.5	3602.1	4271.0	5373.6	6943.0	7763.0	8469.6	9261.7
20°	1168.4	1345.9	1789.6	2387.7	3119.0	3958.7	5347.3	7383.4	8449.9	9256.8	9767.9
22.5°	982.7	1048.4	1306.4	1855.3	2700.0	3725.4	5439.4	8001.3	9376.7	10407.1	10574.7
25°	895.6	935.0	1069.8	1456.0	2326.9	3556.1	5750.0	8921.5	10523.8	11557.4	11527.8
27.5°	847.9	889.0	977.8	1229.2	2045.9	3451.0	6060.5	10012.7	11835.1	12806.3	12438.2
30°	833.2	889.0	982.7	1158.5	1845.4	3285.0	6315.3	10970.8	12844.1	13649.4	12852.4
32.5°	821.7	829.9	872.6	999.1	1654.8	3091.1	6487.8	11830.2	13831.8	14451.3	13448.9
35°	663.9	705.0	774.0	895.6	1543.1	2974.4	6487.8	12571.3	14804.6	15261.5	14017.5
37.5°	639.2	675.4	736.2	839.7	1480.6	2916.9	6358.0	13286.2	15798.8	16180.1	14485.8
40°	626.1	655.7	713.2	797.0	1454.3	2851.1	6169.0	13917.2	16770.0	17100.3	14922.9
42.5°	616.2	642.5	696.8	770.7	1419.8	2778.8	6016.2	14423.4	17613.0	17885.8	15340.3
45°	611.3	639.2	698.4	783.9	1350.8	2683.5	5965.2	14970.6	18306.5	18541.5	15792.2
47.5°	611.3	644.2	706.6	811.8	1268.6	2584.9	6124.6	15692.0	18962.2	19077.2	16324.7
50°	606.4	642.5	729.6	783.9	1148.7	2460.0	6499.3	16600.8	19672.1	19685.2	16998.4
52.5°	596.5	639.2	785.5	767.4	1010.6	2295.7	7005.4	17767.5	20722.2	20801.1	18053.4
55°	585.0	634.3	770.7	729.6	897.2	2100.2	7419.6	19185.7	22197.9	22416.4	19604.7
57.5°	570.2	627.7	746.1	677.0	823.3	1848.7	7569.1	20224.3	23228.2	23777.1	21353.2
60°	557.1	622.8	673.8	645.8	777.3	1636.7	7279.9	20018.8	23157.6	24340.8	22902.9
62.5°	543.9	627.7	614.6	626.1	755.9	1500.3	6524.0	18373.9	21985.9	23759.0	24051.5
65°	529.1	583.4	580.1	609.7	751.0	1446.1	5408.1	15907.3	19721.4	21920.2	24322.7
67.5°	509.4	539.0	555.4	588.3	767.4	1398.5	4364.6	13121.9	16574.5	19164.3	22909.4
70°	488.1	512.7	530.8	562.0	757.6	1377.1	3630.1	10347.9	13151.4	15706.8	20120.7
72.5°	460.1	481.5	497.9	527.5	747.7	1365.6	3066.4	8333.2	9818.8	11667.5	16359.2
75°	427.3	447.0	458.5	488.1	716.5	1250.6	2410.7	7051.5	7347.3	8116.3	13029.8
77.5°	389.5	404.3	414.1	447.0	634.3	1040.2	1743.6	5439.4	5705.6	5892.9	9989.7
80°	345.1	359.9	364.8	396.0	525.9	813.4	1137.2	4017.9	4267.7	4310.4	6524.0
82.5°	294.2	308.9	308.9	338.5	430.5	585.0	746.1	2752.5	2801.8	2946.5	4611.1
85°	236.6	248.1	248.1	262.9	333.6	437.1	512.7	1382.0	1367.2	1561.1	3994.9
87.5°	169.3	177.5	185.7	189.0	238.3	289.2	308.9	420.7	277.7	318.8	2565.2
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°	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8	10099.8
2.5°	11601.8	11695.5	11600.1	11531.1	11233.7	10988.8	10661.8	10494.2
5°	12471.1	12709.4	12628.9	12339.6	11718.5	11020.1	10226.3	9868.1
7.5°	12365.9	12919.7	12932.9	12392.2	11476.9	10448.2	9373.5	8864.0
10°	11547.6	12255.8	12458.0	11933.7	10962.5	9812.2	8579.7	7998.0
12.5°	10633.9	11327.4	11481.8	11301.1	10489.3	9334.0	8083.5	7513.2
15°	9886.2	10196.8	10380.8	10538.6	10083.4	9143.4	8055.5	7429.4
17.5°	9431.0	9396.5	9449.1	9723.5	9800.7	9362.0	8482.8	7792.6
20°	9266.6	8739.1	8726.0	9104.0	9667.6	9882.9	9317.6	8489.4
22.5°	9357.0	8502.5	8394.0	8842.7	9738.3	10633.9	10412.0	9467.1
25°	9669.3	8522.2	8435.1	8869.0	9994.6	11434.2	11593.6	10732.5
27.5°	10160.6	8647.1	8532.1	8977.4	10334.8	12106.3	12757.0	11958.4
30°	10627.3	8864.0	8721.1	9191.1	10645.4	12372.5	13470.2	12914.8
32.5°	11194.3	9269.9	9018.5	9583.8	11029.9	12796.5	14106.2	13706.9
35°	11749.7	9848.4	9536.1	10190.2	11458.8	13324.0	14832.5	14719.2
37.5°	12359.4	10604.3	10346.3	10974.0	12045.5	13821.9	15759.4	15905.6
40°	13010.1	11606.7	11301.1	12117.8	12955.9	14446.4	16727.3	17079.0
42.5°	13665.8	12719.2	12354.4	13182.7	13956.7	15062.6	17555.5	18076.4
45°	14416.8	13927.1	13754.5	14650.1	14918.0	15649.3	18166.8	18814.3
47.5°	15291.0	15297.6	15575.3	15933.6	15887.6	16313.2	18781.4	19473.3
50°	16311.5	17008.3	17621.2	17859.5	16886.7	17026.4	19634.3	20355.7
52.5°	17537.4	19054.2	19813.4	19657.3	17963.1	17897.3	20985.1	21571.8
55°	19070.7	21220.1	21974.4	21862.6	19200.5	19083.8	22667.9	23009.7
57.5°	20845.4	23318.6	24012.1	23509.2	20686.0	20385.3	24059.7	24132.1
60°	22404.9	24981.6	25589.7	25032.6	22184.7	21770.6	24929.1	24579.0
62.5°	23272.6	25545.3	25972.6	25372.8	23211.8	23246.3	25119.7	24337.5
65°	22884.8	24120.6	24258.6	24209.3	22947.2	24102.5	24434.4	23221.7
67.5°	20761.6	20518.4	20750.1	21070.6	20679.5	22975.2	22536.4	20791.2
70°	17021.4	15685.4	16147.2	16362.5	16539.9	19770.7	19560.4	16934.3
72.5°	12827.7	10988.8	11353.7	11309.3	12130.9	15858.0	15212.2	12451.4
75°	9089.2	7450.8	7496.8	7478.7	8464.7	12407.0	11015.1	8518.9
77.5°	6359.6	5398.3	5422.9	5524.8	5690.8	9357.0	7869.8	6223.2
80°	4372.9	4096.8	4233.2	4241.4	3944.0	6285.7	5814.0	4994.0
82.5°	3257.0	2847.9	2815.0	2862.7	3091.1	5092.6	4468.2	3464.1
85°	2667.1	1686.0	1355.7	1699.2	2739.4	5043.3	2967.8	1827.4
87.5°	1502.0	800.3	361.5	670.5	1092.8	3339.2	857.8	233.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)