

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: P192135

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192135
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA 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: 37001 lumens
Efficiency: N/A
Efficacy: 94.6 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

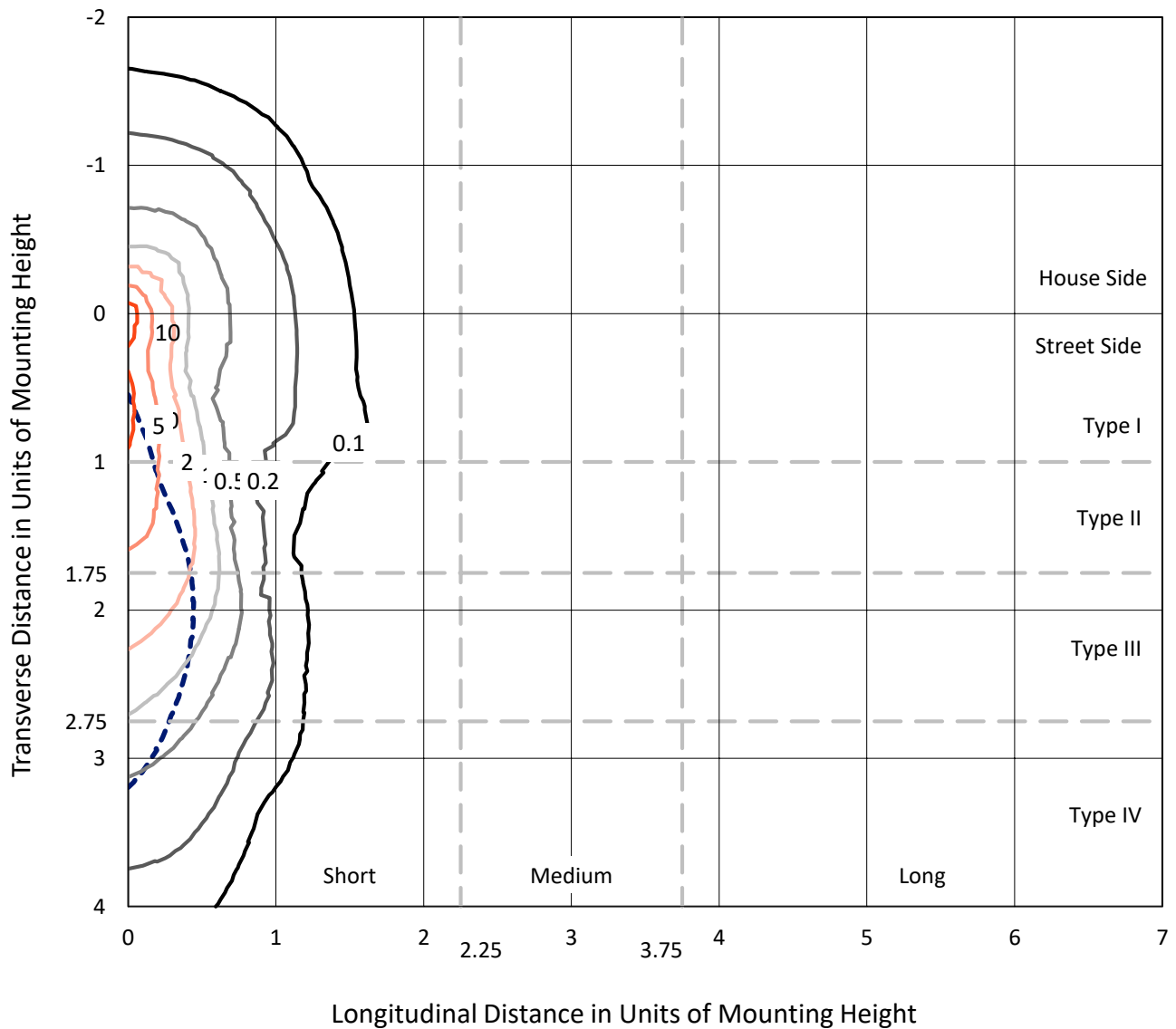
Input Watts (W): 391
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

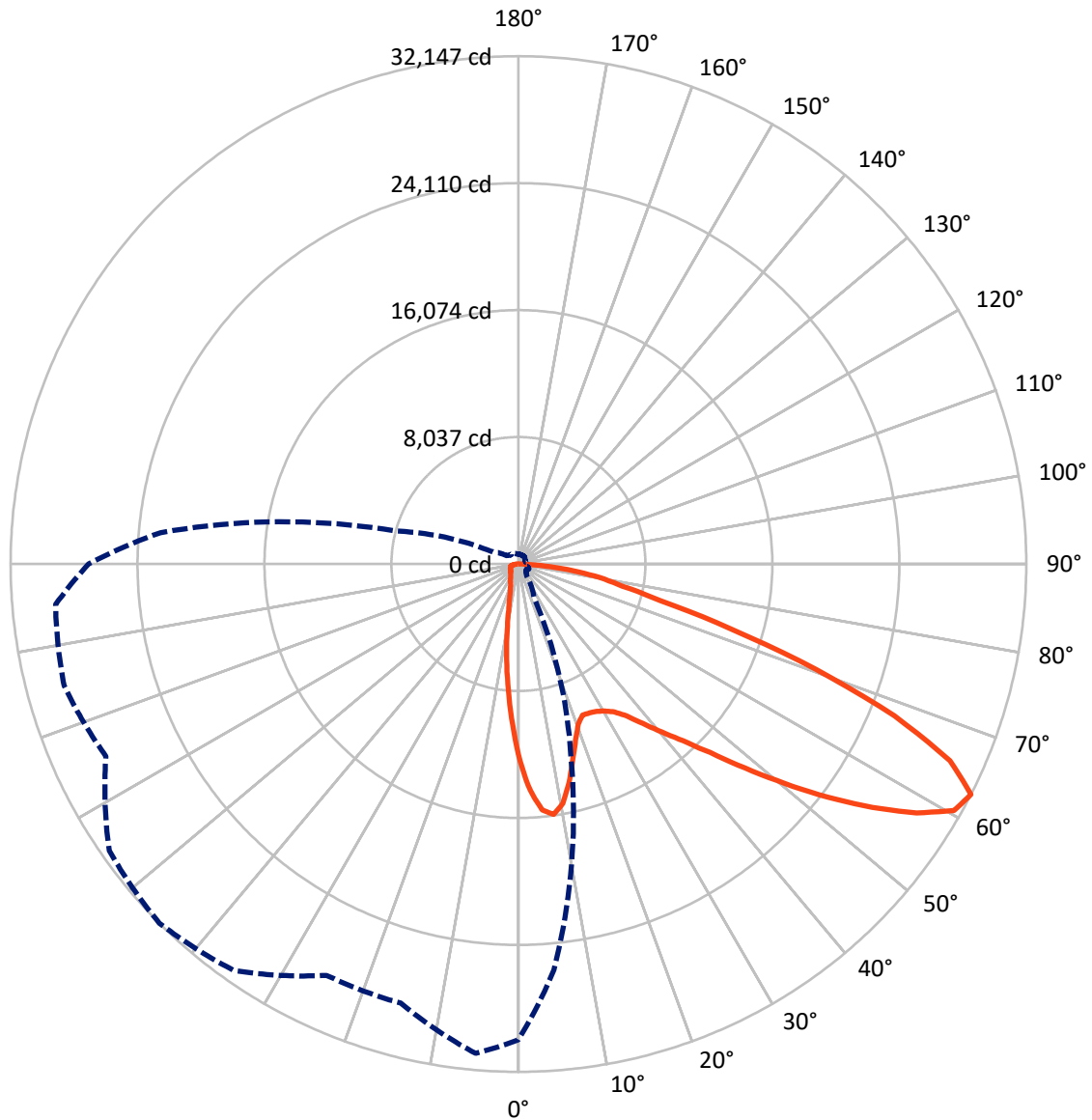
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6123.1	0.0	6123.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	30877.8	0.0	30877.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	37001.0	0.0	37001.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.0	2.5
10°-20°	1668.7	4.5
20°-30°	2433.0	6.6
30°-40°	3747.1	10.1
40°-50°	5514.8	14.9
50°-60°	8089.1	21.9
60°-70°	9042.4	24.4
70°-80°	4427.0	12.0
80°-90°	1168.8	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°	37001.0	100.0
0°-180°	37001.0	100.0



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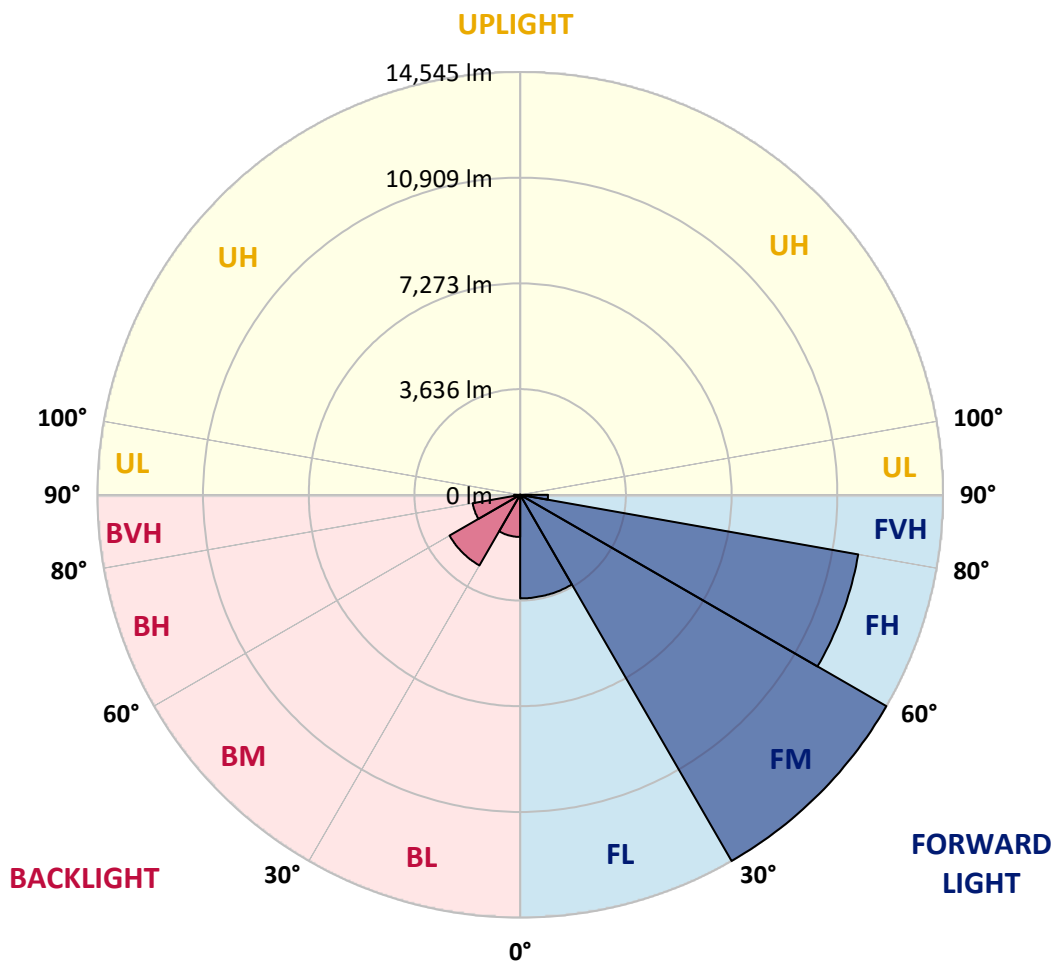
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3563.1	9.6			
FM (30°-60°)	14545.4	39.3			
FH (60°-80°)	11809.4	31.9			G4/12000
FVH (80°-90°)	959.9	2.6			G5
BL (0°-30°)	1448.6	3.9	B3/2500		
BM (30°-60°)	2805.6	7.6	B3/5000		
BH (60°-80°)	1660.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	208.9	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°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	12989.1	12724.7	12285.3	11827.7	11549.0	11223.6	10969.3	10745.6	10298.1	10210.7	10290.0
5°	12214.1	11683.3	10855.4	10021.5	9466.2	8870.3	8406.5	8034.3	7466.8	7367.1	7487.1
7.5°	10971.4	10336.8	9242.5	8178.7	7393.6	6649.1	6148.8	5750.1	5306.7	5115.5	5127.7
10°	9899.5	9183.5	7889.9	6732.5	6089.8	5587.4	5166.3	4757.5	4308.0	4013.1	3931.7
12.5°	9299.4	8475.7	6984.7	5951.5	5355.5	4826.7	4373.1	3935.8	3455.8	3154.7	3069.3
15°	9195.7	8300.7	6645.1	5451.1	4704.6	4035.4	3500.5	3012.3	2518.1	2274.0	2223.2
17.5°	9645.2	8614.0	6535.2	5005.7	4092.4	3266.6	2609.6	2064.5	1661.8	1539.7	1529.6
20°	10507.6	9216.0	6521.0	4586.7	3488.3	2520.1	1818.4	1421.8	1244.8	1210.2	1212.3
22.5°	11717.8	10149.6	6695.9	4271.4	2933.0	1879.4	1366.8	1189.9	1120.7	1088.2	1088.2
25°	13284.0	11435.1	7098.6	4041.5	2451.0	1501.1	1206.2	1100.4	1035.3	1012.9	1017.0
27.5°	14801.4	12686.0	7566.5	3860.5	2135.7	1362.8	1143.1	1047.5	990.6	968.2	978.4
30°	15985.2	13796.6	7957.0	3614.4	1975.0	1324.1	1165.5	1067.8	986.5	951.9	953.9
32.5°	16965.5	14768.8	8284.5	3437.5	1832.6	1135.0	1004.8	962.1	951.9	911.2	890.9
35°	18218.5	15828.5	8504.1	3441.5	1765.5	1012.9	895.0	819.7	764.8	718.0	718.0
37.5°	19687.0	17044.9	8738.0	3488.3	1741.1	941.7	856.3	781.1	730.2	685.5	677.3
40°	21139.3	18236.8	8951.6	3533.0	1726.9	899.0	825.8	756.6	709.9	665.1	652.9
42.5°	22373.9	19217.2	9142.8	3555.4	1678.0	895.0	803.4	740.4	695.6	646.8	634.6
45°	23287.2	20038.9	9348.2	3590.0	1629.2	911.2	803.4	738.3	683.4	636.6	624.4
47.5°	24102.8	21003.0	9692.0	3590.0	1570.2	880.7	829.9	740.4	681.4	632.6	622.4
50°	25195.1	22325.1	10342.9	3506.6	1486.9	848.2	874.6	732.2	663.1	624.4	612.2
52.5°	26700.2	24019.4	11376.1	3362.2	1358.7	785.1	868.5	728.2	644.8	604.1	589.9
55°	28480.0	25833.8	12503.0	3193.4	1167.5	740.4	838.0	718.0	624.4	579.7	565.5
57.5°	29869.2	27082.6	13296.2	2933.0	1000.7	716.0	742.4	707.8	600.0	553.2	541.0
60°	30422.5	27033.8	13513.9	2585.2	919.4	695.6	648.8	793.3	579.7	532.9	518.7
62.5°	30123.5	25784.9	12903.7	2341.1	901.1	669.2	608.2	734.3	563.4	518.7	498.3
65°	28742.4	23572.0	11286.6	2276.0	953.9	642.7	581.7	575.6	541.0	498.3	478.0
67.5°	25734.1	20264.7	9037.0	2282.1	1021.1	616.3	555.3	526.8	510.5	476.0	457.6
70°	20960.3	16021.8	6736.6	2298.4	1055.6	585.8	526.8	496.3	478.0	443.4	431.2
72.5°	15411.6	12348.4	4893.8	2192.6	1061.7	551.2	488.2	461.7	443.4	406.8	396.6
75°	10544.2	9445.9	3394.7	1816.4	925.5	502.4	445.4	421.0	408.8	364.1	358.0
77.5°	7702.7	7090.5	2172.3	1348.5	713.9	441.4	392.6	374.3	366.1	317.3	309.2
80°	6181.3	5609.8	1358.7	923.4	522.7	370.2	329.5	319.3	311.2	262.4	256.3
82.5°	4287.7	3756.8	872.6	600.0	392.6	286.8	260.4	256.3	244.1	199.3	193.2
85°	2261.8	2040.1	553.2	408.8	284.8	197.3	181.0	181.0	174.9	132.2	128.1
87.5°	288.8	469.9	280.7	213.6	156.6	87.5	87.5	85.4	91.5	75.3	65.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	10102.9	10200.5	10106.9	10113.0	10216.8	10525.9	10666.3	10782.2	10906.3	10987.6	11024.3
5°	7322.4	7550.2	7627.5	7790.2	8030.2	8424.8	8581.4	8695.3	8770.6	8815.3	8833.6
7.5°	5007.7	5146.0	5300.6	5563.0	6085.7	6317.6	6421.3	6394.9	6309.5	6278.9	6248.4
10°	3775.1	3720.2	3691.7	3836.1	4259.2	4493.1	4566.3	4495.1	4448.3	4458.5	4509.4
12.5°	2924.9	2829.3	2713.3	2697.1	2975.7	3185.2	3232.0	3236.1	3321.5	3396.8	3508.6
15°	2131.6	2121.5	2064.5	2029.9	2188.6	2359.4	2379.8	2416.4	2493.7	2548.6	2646.2
17.5°	1503.1	1558.0	1602.8	1625.2	1745.2	1867.2	1844.8	1826.5	1812.3	1812.3	1859.1
20°	1212.3	1248.9	1305.8	1370.9	1493.0	1578.4	1523.5	1450.2	1397.4	1381.1	1387.2
22.5°	1092.3	1120.7	1153.3	1210.2	1320.1	1379.0	1320.1	1267.2	1214.3	1196.0	1189.9
25°	1031.2	1067.8	1098.4	1141.1	1222.4	1263.1	1206.2	1167.5	1135.0	1112.6	1096.3
27.5°	996.7	1029.2	1037.3	1057.7	1126.8	1163.4	1135.0	1118.7	1098.4	1078.0	1057.7
30°	960.0	953.9	939.7	941.7	996.7	1033.3	1031.2	1035.3	1033.3	1027.2	1023.1
32.5°	876.7	864.4	852.2	864.4	915.3	947.8	949.9	958.0	958.0	956.0	972.2
35°	730.2	752.6	766.8	803.4	864.4	892.9	880.7	860.4	823.8	801.4	799.4
37.5°	675.3	679.4	703.8	754.6	821.7	848.2	829.9	783.1	758.7	754.6	760.7
40°	648.8	652.9	667.2	713.9	781.1	807.5	791.2	756.6	734.3	732.2	742.4
42.5°	630.5	634.6	642.7	675.3	730.2	762.7	764.8	740.4	713.9	716.0	726.1
45°	620.4	622.4	620.4	636.6	687.5	726.1	742.4	726.1	703.8	707.8	720.0
47.5°	618.3	612.2	604.1	608.2	661.0	699.7	720.0	713.9	703.8	707.8	718.0
50°	610.2	596.0	585.8	583.8	636.6	677.3	695.6	695.6	699.7	707.8	718.0
52.5°	585.8	569.5	569.5	563.4	620.4	659.0	671.2	673.3	679.4	693.6	707.8
55°	555.3	549.2	555.3	545.1	608.2	644.8	650.9	654.9	659.0	671.2	691.6
57.5°	528.8	520.7	534.9	530.9	598.0	630.5	630.5	638.7	638.7	654.9	671.2
60°	514.6	498.3	504.4	508.5	583.8	618.3	614.3	622.4	626.5	640.7	652.9
62.5°	496.3	482.1	482.1	492.2	567.5	600.0	598.0	604.1	620.4	624.4	636.6
65°	473.9	467.8	461.7	473.9	551.2	579.7	581.7	589.9	604.1	608.2	618.3
67.5°	451.5	453.6	441.4	453.6	537.0	559.3	559.3	575.6	581.7	589.9	600.0
70°	427.1	429.2	419.0	433.2	526.8	537.0	534.9	557.3	561.4	567.5	577.7
72.5°	396.6	396.6	392.6	412.9	510.5	514.6	510.5	528.8	530.9	537.0	541.0
75°	364.1	364.1	360.0	388.5	500.4	490.2	478.0	492.2	496.3	500.4	500.4
77.5°	321.4	325.4	325.4	360.0	465.8	480.0	439.3	447.5	453.6	455.6	449.5
80°	268.5	278.7	282.7	327.5	390.5	443.4	392.6	398.7	400.7	400.7	392.6
82.5°	205.4	223.7	233.9	282.7	299.0	372.2	341.7	347.8	341.7	329.5	325.4
85°	142.4	166.8	179.0	215.6	225.8	286.8	284.8	284.8	272.6	256.3	254.2
87.5°	77.3	91.5	99.7	128.1	154.6	193.2	209.5	203.4	193.2	183.1	185.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	11215.4	11492.1	11933.4	12271.1	12610.8	12938.2	13292.2	13562.7	13792.5	13882.0	14154.6
5°	9018.7	9364.5	9781.5	10534.1	11067.0	11654.8	12334.1	13233.2	13578.9	14056.9	14840.0
7.5°	6376.6	6689.8	7361.0	7969.2	8723.8	9555.7	10473.0	11713.8	12167.4	12934.2	14209.5
10°	4761.6	5125.7	5664.7	6177.2	6842.4	7692.6	8746.2	10133.4	10684.6	11516.5	12985.0
12.5°	3836.1	4265.3	4836.8	5318.9	5833.5	6433.5	7456.6	8978.1	9716.4	10444.6	11929.4
15°	2947.3	3396.8	3927.6	4539.9	5107.4	5754.2	6826.1	8489.9	9340.1	10098.8	11366.0
17.5°	2040.1	2424.5	3093.7	3732.4	4458.5	5286.4	6651.2	8593.6	9608.6	10483.2	11463.6
20°	1446.2	1665.8	2215.0	2955.4	3860.5	4899.9	6618.6	9138.7	10458.8	11457.5	12090.1
22.5°	1216.3	1297.7	1617.0	2296.4	3341.9	4611.1	6732.5	9903.5	11606.0	12881.3	13088.8
25°	1108.5	1157.3	1324.1	1802.1	2880.1	4401.6	7116.9	11042.6	13025.7	14305.1	14268.5
27.5°	1049.5	1100.4	1210.2	1521.4	2532.3	4271.4	7501.4	12393.1	14648.8	15850.9	15395.3
30°	1031.2	1100.4	1216.3	1434.0	2284.2	4066.0	7816.6	13578.9	15897.7	16894.4	15907.9
32.5°	1017.0	1027.2	1080.1	1236.7	2048.2	3825.9	8030.2	14642.7	17120.1	17886.9	16646.2
35°	821.7	872.6	958.0	1108.5	1909.9	3681.5	8030.2	15560.1	18324.3	18889.7	17350.0
37.5°	791.2	836.0	911.2	1039.4	1832.6	3610.3	7869.5	16444.8	19554.8	20026.7	17929.7
40°	775.0	811.6	882.8	986.5	1800.1	3529.0	7635.6	17225.9	20756.9	21165.7	18470.7
42.5°	762.7	795.3	862.4	953.9	1757.4	3439.5	7446.5	17852.4	21800.4	22138.0	18987.3
45°	756.6	791.2	864.4	970.2	1671.9	3321.5	7383.4	18529.7	22658.7	22949.6	19546.7
47.5°	756.6	797.3	874.6	1004.8	1570.2	3199.5	7580.7	19422.6	23470.3	23612.6	20205.7
50°	750.5	795.3	903.1	970.2	1421.8	3044.9	8044.4	20547.4	24348.9	24365.2	21039.6
52.5°	738.3	791.2	972.2	949.9	1250.9	2841.5	8670.9	21991.5	25648.7	25746.3	22345.5
55°	724.1	785.1	953.9	903.1	1110.6	2599.4	9183.5	23746.9	27475.2	27745.7	24265.6
57.5°	705.8	777.0	923.4	838.0	1019.0	2288.2	9368.6	25032.4	28750.5	29429.9	26429.7
60°	689.5	770.9	833.9	799.4	962.1	2025.9	9010.6	24778.1	28663.1	30127.5	28347.8
62.5°	673.3	777.0	760.7	775.0	935.6	1857.0	8075.0	22742.1	27212.8	29407.5	29769.5
65°	654.9	722.1	718.0	754.6	929.5	1789.9	6693.9	19689.1	24410.0	27131.5	30105.2
67.5°	630.5	667.2	687.5	728.2	949.9	1730.9	5402.3	16241.4	20514.9	23720.4	28355.9
70°	604.1	634.6	657.0	695.6	937.7	1704.5	4493.1	12808.1	16278.1	19440.9	24904.2
72.5°	569.5	596.0	616.3	652.9	925.5	1690.2	3795.4	10314.4	12153.1	14441.4	20248.4
75°	528.8	553.2	567.5	604.1	886.8	1547.9	2983.9	8727.9	9094.0	10045.9	16127.5
77.5°	482.1	500.4	512.6	553.2	785.1	1287.5	2158.1	6732.5	7062.0	7293.9	12364.7
80°	427.1	445.4	451.5	490.2	650.9	1006.8	1407.5	4973.1	5282.3	5335.2	8075.0
82.5°	364.1	382.4	382.4	419.0	532.9	724.1	923.4	3406.9	3468.0	3647.0	5707.4
85°	292.9	307.1	307.1	325.4	412.9	541.0	634.6	1710.6	1692.3	1932.3	4944.6
87.5°	209.5	219.7	229.8	233.9	294.9	358.0	382.4	520.7	343.7	394.6	3175.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9	12500.9
2.5°	14360.0	14475.9	14358.0	14272.5	13904.4	13601.3	13196.6	12989.1
5°	15436.0	15730.9	15631.2	15273.3	14504.4	13640.0	12657.5	12214.1
7.5°	15305.8	15991.3	16007.5	15338.4	14205.4	12932.1	11601.9	10971.4
10°	14292.9	15169.5	15419.7	14770.9	13568.8	12145.0	10619.5	9899.5
12.5°	13162.0	14020.3	14211.5	13987.8	12983.0	11553.1	10005.2	9299.4
15°	12236.5	12620.9	12848.7	13044.0	12480.6	11317.1	9970.6	9195.7
17.5°	11673.1	11630.4	11695.5	12035.1	12130.7	11587.7	10499.5	9645.2
20°	11469.7	10816.8	10800.5	11268.3	11966.0	12232.4	11532.7	10507.6
22.5°	11581.6	10523.9	10389.6	10944.9	12053.5	13162.0	12887.4	11717.8
25°	11968.0	10548.3	10440.5	10977.5	12370.8	14152.5	14349.8	13284.0
27.5°	12576.2	10702.9	10560.5	11111.7	12791.8	14984.4	15789.9	14801.4
30°	13153.8	10971.4	10794.4	11376.1	13176.2	15313.9	16672.7	15985.2
32.5°	13855.6	11473.8	11162.6	11862.3	13652.2	15838.7	17459.8	16965.5
35°	14543.1	12189.7	11803.3	12612.8	14183.0	16491.6	18358.8	18218.5
37.5°	15297.7	13125.4	12806.0	13583.0	14909.2	17107.9	19506.0	19687.0
40°	16103.1	14366.1	13987.8	14998.7	16036.0	17880.8	20704.0	21139.3
42.5°	16914.7	15743.1	15291.6	16316.7	17274.7	18643.6	21729.2	22373.9
45°	17844.2	17238.1	17024.5	18133.1	18464.6	19369.7	22485.8	23287.2
47.5°	18926.3	18934.5	19278.2	19721.6	19664.7	20191.5	23246.5	24102.8
50°	20189.4	21051.8	21810.5	22105.5	20901.3	21074.2	24302.2	25195.1
52.5°	21706.8	23584.2	24523.9	24330.6	22233.6	22152.2	25974.1	26700.2
55°	23604.5	26265.0	27198.6	27060.3	23765.2	23620.8	28056.9	28480.0
57.5°	25801.2	28862.4	29720.7	29098.3	25603.9	25231.7	29779.7	29869.2
60°	27731.5	30920.8	31673.4	30983.8	27458.9	26946.4	30855.7	30422.5
62.5°	28805.4	31618.4	32147.3	31404.9	28730.2	28772.9	31091.6	30123.5
65°	28325.4	29855.0	30025.8	29964.8	28402.7	29832.6	30243.5	28742.4
67.5°	25697.5	25396.5	25683.3	26079.9	25595.8	28437.3	27894.2	25734.1
70°	21068.1	19414.5	19986.0	20252.5	20472.2	24471.0	24210.6	20960.3
72.5°	15877.4	13601.3	14052.9	13998.0	15014.9	19628.0	18828.7	15411.6
75°	11250.0	9222.1	9279.1	9256.7	10477.1	15356.7	13633.9	10544.2
77.5°	7871.6	6681.7	6712.2	6838.3	7043.7	11581.6	9740.8	7702.7
80°	5412.5	5070.7	5239.6	5249.7	4881.6	7780.0	7196.3	6181.3
82.5°	4031.4	3524.9	3484.2	3543.2	3825.9	6303.3	5530.4	4287.7
85°	3301.2	2086.9	1678.0	2103.2	3390.7	6242.3	3673.4	2261.8
87.5°	1859.1	990.6	447.5	829.9	1352.6	4133.1	1061.7	288.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)