

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: P193878

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193878
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-10-LED-E1-SLR-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 42250 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

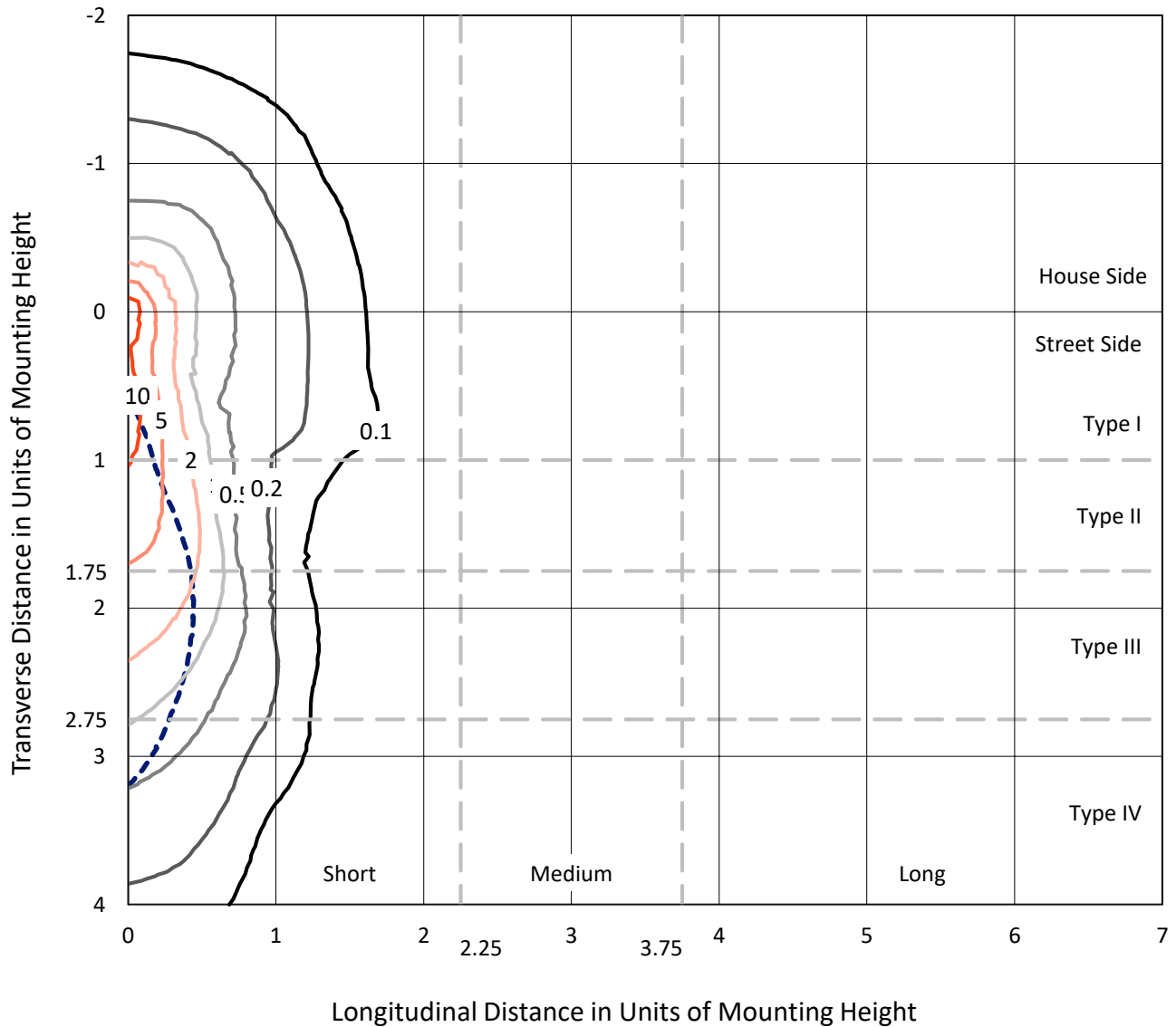
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

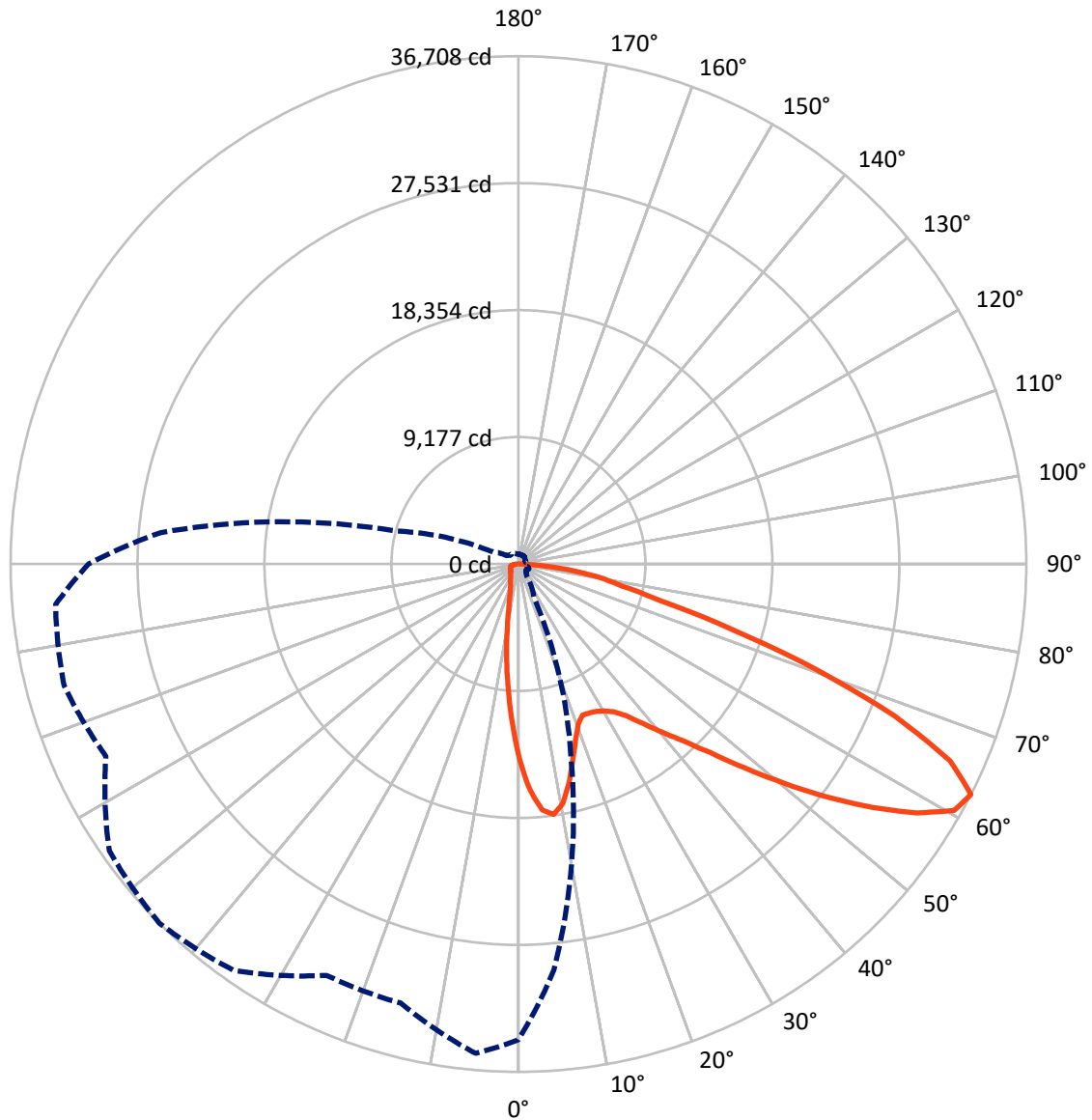
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.9 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	6991.8	0.0	6991.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	35258.2	0.0	35258.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	42250.0	0.0	42250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.1	2.5
10°-20°	1905.4	4.5
20°-30°	2778.1	6.6
30°-40°	4278.7	10.1
40°-50°	6297.2	14.9
50°-60°	9236.6	21.9
60°-70°	10325.2	24.4
70°-80°	5055.1	12.0
80°-90°	1334.7	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°	42250.0	100.0
0°-180°	42250.0	100.0



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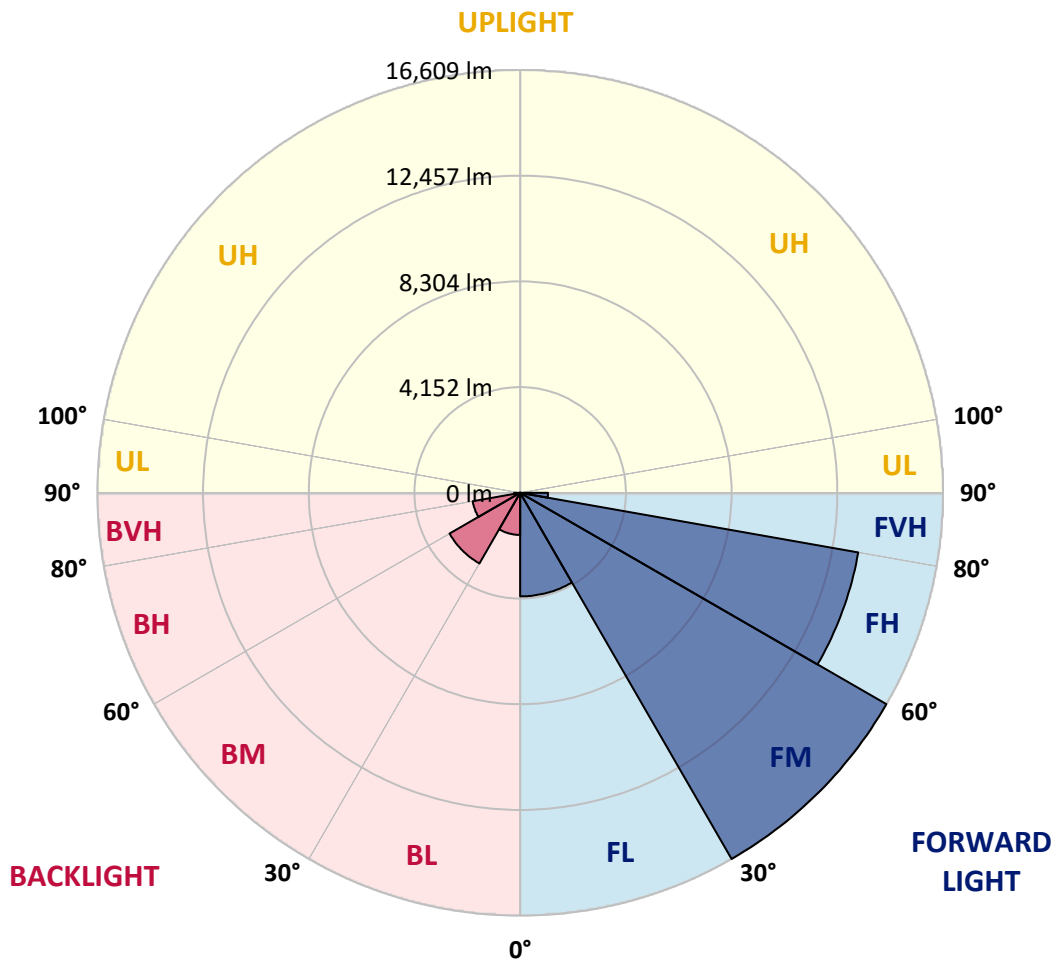
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4068.5	9.6			
FM	(30°-60°)	16608.9	39.3			
FH	(60°-80°)	13484.7	31.9			G5
FVH	(80°-90°)	1096.1	2.6			G5
BL	(0°-30°)	1654.1	3.9	B3/2500		
BM	(30°-60°)	3203.6	7.6	B3/5000		
BH	(60°-80°)	1895.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	238.6	0.6			G3/500
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°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	14831.7	14529.8	14028.1	13505.6	13187.4	12815.8	12525.5	12270.0	11759.0	11659.1	11749.7
5°	13946.8	13340.7	12395.4	11443.2	10809.1	10128.6	9599.1	9174.0	8526.0	8412.2	8549.3
7.5°	12527.8	11803.1	10553.6	9338.9	8442.4	7592.4	7021.0	6565.8	6059.5	5841.2	5855.1
10°	11303.8	10486.3	9009.1	7687.6	6953.7	6380.0	5899.2	5432.4	4919.1	4582.4	4489.5
12.5°	10618.6	9678.0	7975.6	6795.7	6115.2	5511.4	4993.5	4494.1	3946.0	3602.3	3504.7
15°	10500.2	9478.3	7587.7	6224.4	5372.0	4607.9	3997.1	3439.7	2875.3	2596.6	2538.5
17.5°	11013.5	9836.0	7462.3	5715.8	4672.9	3730.0	2979.8	2357.4	1897.5	1758.2	1746.5
20°	11998.2	10523.4	7446.1	5237.3	3983.2	2877.6	2076.4	1623.5	1421.4	1381.9	1384.2
22.5°	13380.1	11589.5	7645.8	4877.3	3349.1	2146.0	1560.7	1358.7	1279.7	1242.6	1242.6
25°	15168.5	13057.3	8105.7	4614.9	2798.7	1714.0	1377.3	1256.5	1182.2	1156.6	1161.3
27.5°	16901.1	14485.7	8639.8	4408.2	2438.7	1556.1	1305.3	1196.1	1131.1	1105.5	1117.1
30°	18252.8	15753.8	9085.8	4127.2	2255.2	1512.0	1330.8	1219.3	1126.4	1086.9	1089.3
32.5°	19372.3	16864.0	9459.7	3925.1	2092.6	1296.0	1147.3	1098.6	1086.9	1040.5	1017.3
35°	20803.0	18074.0	9710.5	3929.7	2016.0	1156.6	1021.9	936.0	873.3	819.9	819.9
37.5°	22479.9	19462.9	9977.6	3983.2	1988.1	1075.3	977.8	891.9	833.8	782.7	773.4
40°	24138.1	20823.9	10221.5	4034.3	1971.8	1026.6	943.0	864.0	810.6	759.5	745.5
42.5°	25547.9	21943.4	10439.8	4059.8	1916.1	1021.9	917.4	845.4	794.3	738.6	724.6
45°	26590.8	22881.7	10674.4	4099.3	1860.4	1040.5	917.4	843.1	780.4	727.0	713.0
47.5°	27522.1	23982.5	11066.9	4099.3	1793.0	1005.7	947.6	845.4	778.1	722.3	710.7
50°	28769.3	25492.2	11810.1	4004.1	1697.8	968.5	998.7	836.1	757.1	713.0	699.1
52.5°	30488.0	27426.9	12990.0	3839.2	1551.5	896.5	991.7	831.5	736.2	689.8	673.5
55°	32520.2	29498.6	14276.6	3646.4	1333.1	845.4	956.9	819.9	713.0	661.9	645.7
57.5°	34106.5	30924.6	15182.4	3349.1	1142.7	817.5	847.7	808.2	685.1	631.7	617.8
60°	34738.2	30868.9	15431.0	2951.9	1049.8	794.3	740.9	905.8	661.9	608.5	592.2
62.5°	34396.8	29442.8	14734.2	2673.2	1028.9	764.1	694.4	838.4	643.3	592.2	569.0
65°	32819.8	26915.9	12887.8	2598.9	1089.3	733.9	664.2	657.3	617.8	569.0	545.8
67.5°	29384.8	23139.5	10319.0	2605.9	1165.9	703.7	634.1	601.5	583.0	543.5	522.6
70°	23933.8	18294.6	7692.2	2624.5	1205.4	668.9	601.5	566.7	545.8	506.3	492.4
72.5°	17597.9	14100.1	5588.0	2503.7	1212.4	629.4	557.4	527.2	506.3	464.5	452.9
75°	12040.0	10785.9	3876.3	2074.0	1056.8	573.7	508.6	480.8	466.8	415.7	408.8
77.5°	8795.5	8096.4	2480.5	1539.8	815.2	504.0	448.3	427.3	418.1	362.3	353.0
80°	7058.2	6405.6	1551.5	1054.4	596.9	422.7	376.3	364.6	355.3	299.6	292.6
82.5°	4895.9	4289.7	996.4	685.1	448.3	327.5	297.3	292.6	278.7	227.6	220.6
85°	2582.7	2329.5	631.7	466.8	325.2	225.3	206.7	206.7	199.7	151.0	146.3
87.5°	329.8	536.5	320.5	243.9	178.8	99.9	99.9	97.5	104.5	85.9	74.3
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°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	11536.1	11647.5	11540.7	11547.7	11666.1	12019.1	12179.4	12311.8	12453.5	12546.4	12588.2
5°	8361.1	8621.3	8709.5	8895.3	9169.4	9620.0	9798.8	9928.9	10014.8	10065.9	10086.8
7.5°	5718.1	5876.0	6052.5	6352.1	6949.0	7213.8	7332.3	7302.1	7204.5	7169.7	7134.8
10°	4310.6	4247.9	4215.4	4380.3	4863.4	5130.5	5214.1	5132.8	5079.4	5091.0	5149.1
12.5°	3339.8	3230.7	3098.3	3079.7	3397.9	3637.1	3690.5	3695.2	3792.7	3878.6	4006.4
15°	2434.0	2422.4	2357.4	2317.9	2499.1	2694.1	2717.4	2759.2	2847.4	2910.1	3021.6
17.5°	1716.4	1779.1	1830.2	1855.7	1992.7	2132.1	2106.5	2085.6	2069.4	2069.4	2122.8
20°	1384.2	1426.0	1491.1	1565.4	1704.7	1802.3	1739.6	1656.0	1595.6	1577.0	1584.0
22.5°	1247.2	1279.7	1316.9	1381.9	1507.3	1574.7	1507.3	1446.9	1386.6	1365.7	1358.7
25°	1177.5	1219.3	1254.2	1302.9	1395.8	1442.3	1377.3	1333.1	1296.0	1270.4	1251.8
27.5°	1138.0	1175.2	1184.5	1207.7	1286.7	1328.5	1296.0	1277.4	1254.2	1230.9	1207.7
30°	1096.2	1089.3	1073.0	1075.3	1138.0	1179.8	1177.5	1182.2	1179.8	1172.9	1168.2
32.5°	1001.0	987.1	973.1	987.1	1045.1	1082.3	1084.6	1093.9	1093.9	1091.6	1110.2
35°	833.8	859.3	875.6	917.4	987.1	1019.6	1005.7	982.4	940.6	915.1	912.8
37.5°	771.1	775.7	803.6	861.7	938.3	968.5	947.6	894.2	866.3	861.7	868.6
40°	740.9	745.5	761.8	815.2	891.9	922.0	903.5	864.0	838.4	836.1	847.7
42.5°	720.0	724.6	733.9	771.1	833.8	871.0	873.3	845.4	815.2	817.5	829.1
45°	708.4	710.7	708.4	727.0	785.0	829.1	847.7	829.1	803.6	808.2	822.2
47.5°	706.1	699.1	689.8	694.4	754.8	799.0	822.2	815.2	803.6	808.2	819.9
50°	696.8	680.5	668.9	666.6	727.0	773.4	794.3	794.3	799.0	808.2	819.9
52.5°	668.9	650.3	650.3	643.3	708.4	752.5	766.4	768.8	775.7	792.0	808.2
55°	634.1	627.1	634.1	622.4	694.4	736.2	743.2	747.9	752.5	766.4	789.7
57.5°	603.9	594.6	610.8	606.2	682.8	720.0	720.0	729.3	729.3	747.9	766.4
60°	587.6	569.0	576.0	580.6	666.6	706.1	701.4	710.7	715.3	731.6	745.5
62.5°	566.7	550.4	550.4	562.1	648.0	685.1	682.8	689.8	708.4	713.0	727.0
65°	541.2	534.2	527.2	541.2	629.4	661.9	664.2	673.5	689.8	694.4	706.1
67.5°	515.6	517.9	504.0	517.9	613.2	638.7	638.7	657.3	664.2	673.5	685.1
70°	487.7	490.1	478.4	494.7	601.5	613.2	610.8	636.4	641.0	648.0	659.6
72.5°	452.9	452.9	448.3	471.5	583.0	587.6	583.0	603.9	606.2	613.2	617.8
75°	415.7	415.7	411.1	443.6	571.3	559.7	545.8	562.1	566.7	571.3	571.3
77.5°	367.0	371.6	371.6	411.1	531.9	548.1	501.7	511.0	517.9	520.2	513.3
80°	306.6	318.2	322.8	373.9	445.9	506.3	448.3	455.2	457.5	457.5	448.3
82.5°	234.6	255.5	267.1	322.8	341.4	425.0	390.2	397.2	390.2	376.3	371.6
85°	162.6	190.4	204.4	246.2	257.8	327.5	325.2	325.2	311.2	292.6	290.3
87.5°	88.3	104.5	113.8	146.3	176.5	220.6	239.2	232.3	220.6	209.0	211.4
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°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	12806.5	13122.3	13626.3	14011.9	14399.7	14773.7	15177.8	15486.7	15749.1	15851.3	16162.6
5°	10298.1	10693.0	11169.1	12028.4	12636.9	13308.1	14083.9	15110.4	15505.3	16051.1	16945.2
7.5°	7281.2	7638.8	8405.3	9099.7	9961.4	10911.3	11958.8	13375.5	13893.4	14769.0	16225.3
10°	5437.1	5852.8	6468.3	7053.6	7813.0	8783.8	9986.9	11570.9	12200.3	13150.2	14827.1
12.5°	4380.3	4870.4	5523.0	6073.4	6661.0	7346.2	8514.4	10251.7	11094.8	11926.2	13621.7
15°	3365.4	3878.6	4484.8	5183.9	5831.9	6570.5	7794.4	9694.3	10665.1	11531.4	12978.3
17.5°	2329.5	2768.5	3532.6	4261.9	5091.0	6036.3	7594.7	9812.7	10971.7	11970.4	13089.8
20°	1651.3	1902.2	2529.2	3374.6	4408.2	5595.0	7557.5	10435.2	11942.5	13082.9	13805.2
22.5°	1388.9	1481.8	1846.4	2622.1	3815.9	5265.2	7687.6	11308.4	13252.4	14708.6	14945.5
25°	1265.8	1321.5	1512.0	2057.8	3288.7	5026.0	8126.6	12609.1	14873.5	16334.4	16292.6
27.5°	1198.4	1256.5	1381.9	1737.3	2891.6	4877.3	8565.5	14151.2	16726.9	18099.5	17579.3
30°	1177.5	1256.5	1388.9	1637.4	2608.2	4642.8	8925.5	15505.3	18153.0	19291.0	18164.6
32.5°	1161.3	1172.9	1233.3	1412.1	2338.8	4368.7	9169.4	16720.0	19548.8	20424.4	19007.7
35°	938.3	996.4	1093.9	1265.8	2180.9	4203.8	9169.4	17767.4	20923.8	21569.4	19811.3
37.5°	903.5	954.6	1040.5	1186.8	2092.6	4122.5	8985.9	18777.7	22328.9	22867.7	20473.2
40°	884.9	926.7	1008.0	1126.4	2055.4	4029.6	8718.8	19669.6	23701.5	24168.3	21091.0
42.5°	871.0	908.1	984.8	1089.3	2006.7	3927.4	8502.8	20384.9	24893.0	25278.5	21680.9
45°	864.0	903.5	987.1	1107.9	1909.1	3792.7	8430.8	21158.3	25873.1	26205.2	22319.6
47.5°	864.0	910.4	998.7	1147.3	1793.0	3653.4	8656.1	22177.9	26799.8	26962.4	23072.1
50°	857.0	908.1	1031.2	1107.9	1623.5	3476.8	9185.6	23462.3	27803.1	27821.7	24024.3
52.5°	843.1	903.5	1110.2	1084.6	1428.4	3244.6	9901.0	25111.3	29287.2	29398.7	25515.4
55°	826.8	896.5	1089.3	1031.2	1268.1	2968.2	10486.3	27115.6	31372.9	31681.8	27707.9
57.5°	805.9	887.2	1054.4	956.9	1163.6	2612.9	10697.6	28583.5	32829.1	33604.8	30179.1
60°	787.3	880.2	952.2	912.8	1098.6	2313.2	10288.8	28293.2	32729.2	34401.5	32369.2
62.5°	768.8	887.2	868.6	884.9	1068.4	2120.5	9220.5	25968.3	31073.3	33579.3	33992.7
65°	747.9	824.5	819.9	861.7	1061.4	2043.8	7643.5	22482.2	27872.8	30980.4	34375.9
67.5°	720.0	761.8	785.0	831.5	1084.6	1976.5	6168.7	18545.5	23425.1	27085.5	32378.5
70°	689.8	724.6	750.2	794.3	1070.7	1946.3	5130.5	14625.0	18587.3	22198.8	28437.2
72.5°	650.3	680.5	703.7	745.5	1056.8	1930.0	4333.9	11777.6	13877.2	16490.0	23120.9
75°	603.9	631.7	648.0	689.8	1012.6	1767.5	3407.2	9966.0	10384.1	11471.0	18415.4
77.5°	550.4	571.3	585.3	631.7	896.5	1470.2	2464.2	7687.6	8063.9	8328.6	14118.7
80°	487.7	508.6	515.6	559.7	743.2	1149.7	1607.2	5678.6	6031.6	6092.0	9220.5
82.5°	415.7	436.6	436.6	478.4	608.5	826.8	1054.4	3890.3	3959.9	4164.3	6517.0
85°	334.4	350.7	350.7	371.6	471.5	617.8	724.6	1953.3	1932.4	2206.4	5646.1
87.5°	239.2	250.8	262.4	267.1	336.8	408.8	436.6	594.6	392.5	450.6	3625.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3	14274.3
2.5°	16397.1	16529.5	16394.8	16297.3	15876.9	15530.8	15068.6	14831.7
5°	17625.7	17962.5	17848.7	17439.9	16562.0	15574.9	14453.2	13946.8
7.5°	17477.1	18259.8	18278.4	17514.3	16220.6	14766.7	13247.8	12527.8
10°	16320.5	17321.5	17607.2	16866.3	15493.7	13867.9	12126.0	11303.8
12.5°	15029.2	16009.3	16227.6	15972.1	14824.8	13192.0	11424.6	10618.6
15°	13972.4	14411.4	14671.5	14894.4	14251.1	12922.6	11385.1	10500.2
17.5°	13329.1	13280.3	13354.6	13742.5	13851.6	13231.5	11988.9	11013.5
20°	13096.8	12351.3	12332.7	12866.9	13663.5	13967.8	13168.8	11998.2
22.5°	13224.5	12016.8	11863.5	12497.6	13763.4	15029.2	14715.6	13380.1
25°	13665.8	12044.7	11921.6	12534.7	14125.7	16160.2	16385.5	15168.5
27.5°	14360.3	12221.2	12058.6	12688.0	14606.4	17110.1	18029.9	16901.1
30°	15019.9	12527.8	12325.7	12990.0	15045.4	17486.4	19037.9	18252.8
32.5°	15821.1	13101.4	12746.1	13545.0	15588.9	18085.6	19936.7	19372.3
35°	16606.2	13919.0	13477.7	14402.1	16195.1	18831.1	20963.2	20803.0
37.5°	17467.8	14987.3	14622.7	15509.9	17024.2	19534.9	22273.2	22479.9
40°	18387.5	16404.1	15972.1	17126.4	18310.9	20417.4	23641.1	24138.1
42.5°	19314.2	17976.5	17460.8	18631.4	19725.3	21288.4	24811.7	25547.9
45°	20375.6	19683.5	19439.7	20705.4	21084.0	22117.5	25675.7	26590.8
47.5°	21611.2	21620.5	22013.0	22519.3	22454.3	23055.8	26544.3	27522.1
50°	23053.5	24038.3	24904.6	25241.4	23866.4	24063.8	27749.7	28769.3
52.5°	24786.1	26929.8	28002.9	27782.2	25387.7	25294.8	29658.8	30488.0
55°	26953.1	29990.9	31057.0	30899.1	27136.5	26971.6	32037.1	32520.2
57.5°	29461.4	32956.8	33936.9	33226.2	29236.1	28811.1	34004.3	34106.5
60°	31665.5	35307.2	36166.6	35379.2	31354.3	30769.0	35232.9	34738.2
62.5°	32891.8	36103.9	36707.7	35860.0	32805.9	32854.6	35502.3	34396.8
65°	32343.7	34090.2	34285.3	34215.6	32431.9	34064.7	34533.8	32819.8
67.5°	29343.0	28999.2	29326.7	29779.6	29226.8	32471.4	31851.3	29384.8
70°	24056.9	22168.6	22821.3	23125.5	23376.4	27942.5	27645.2	23933.8
72.5°	18129.7	15530.8	16046.4	15983.7	17145.0	22412.5	21499.7	17597.9
75°	12846.0	10530.4	10595.4	10569.9	11963.4	17535.2	15568.0	12040.0
77.5°	8988.2	7629.5	7664.4	7808.4	8043.0	13224.5	11122.6	8795.5
80°	6180.3	5790.1	5982.9	5994.5	5574.1	8883.7	8217.1	7058.2
82.5°	4603.3	4025.0	3978.5	4045.9	4368.7	7197.5	6315.0	4895.9
85°	3769.5	2382.9	1916.1	2401.5	3871.7	7127.9	4194.5	2582.7
87.5°	2122.8	1131.1	511.0	947.6	1544.5	4719.4	1212.4	329.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)