

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: P193146

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38835.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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



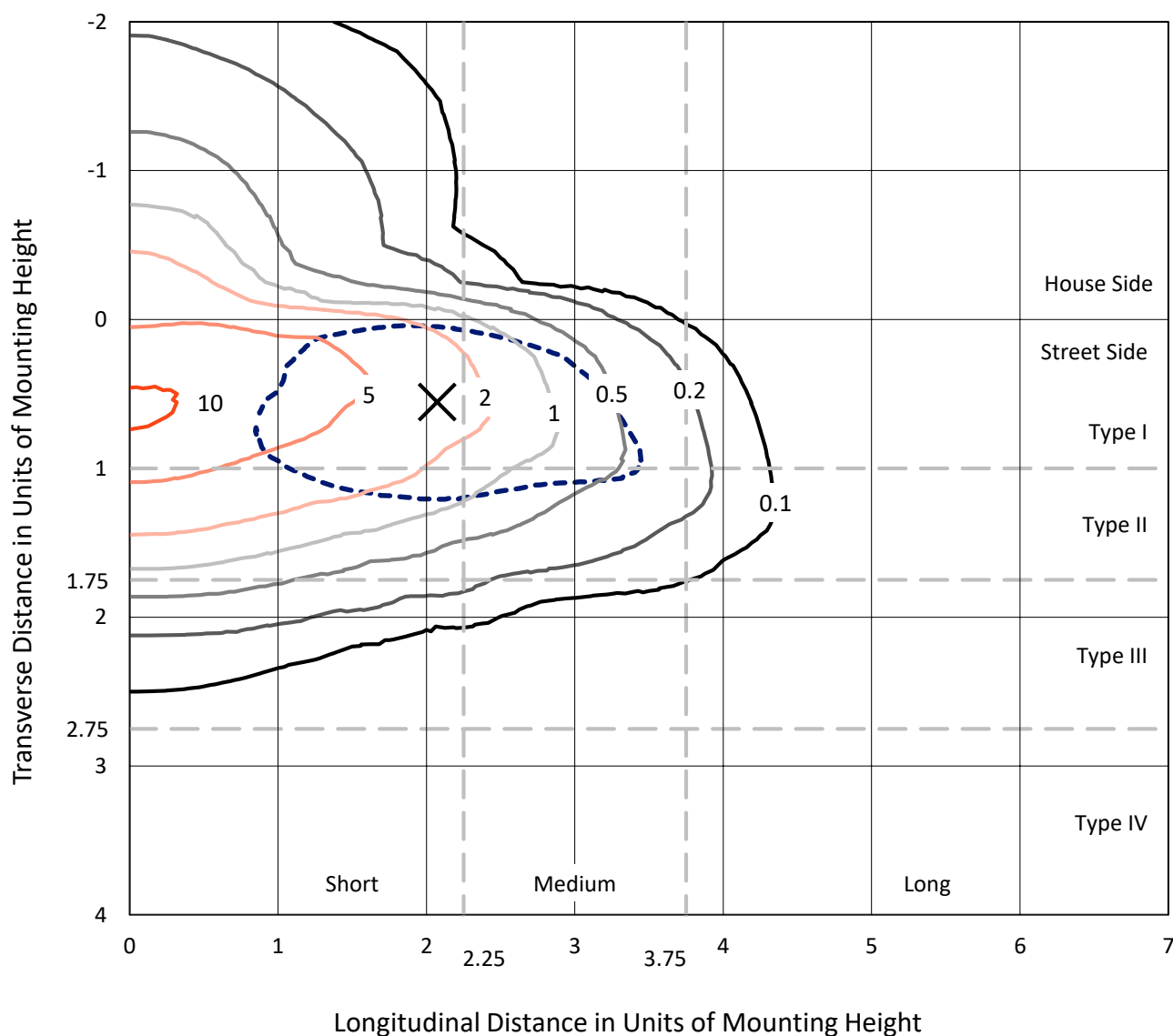
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

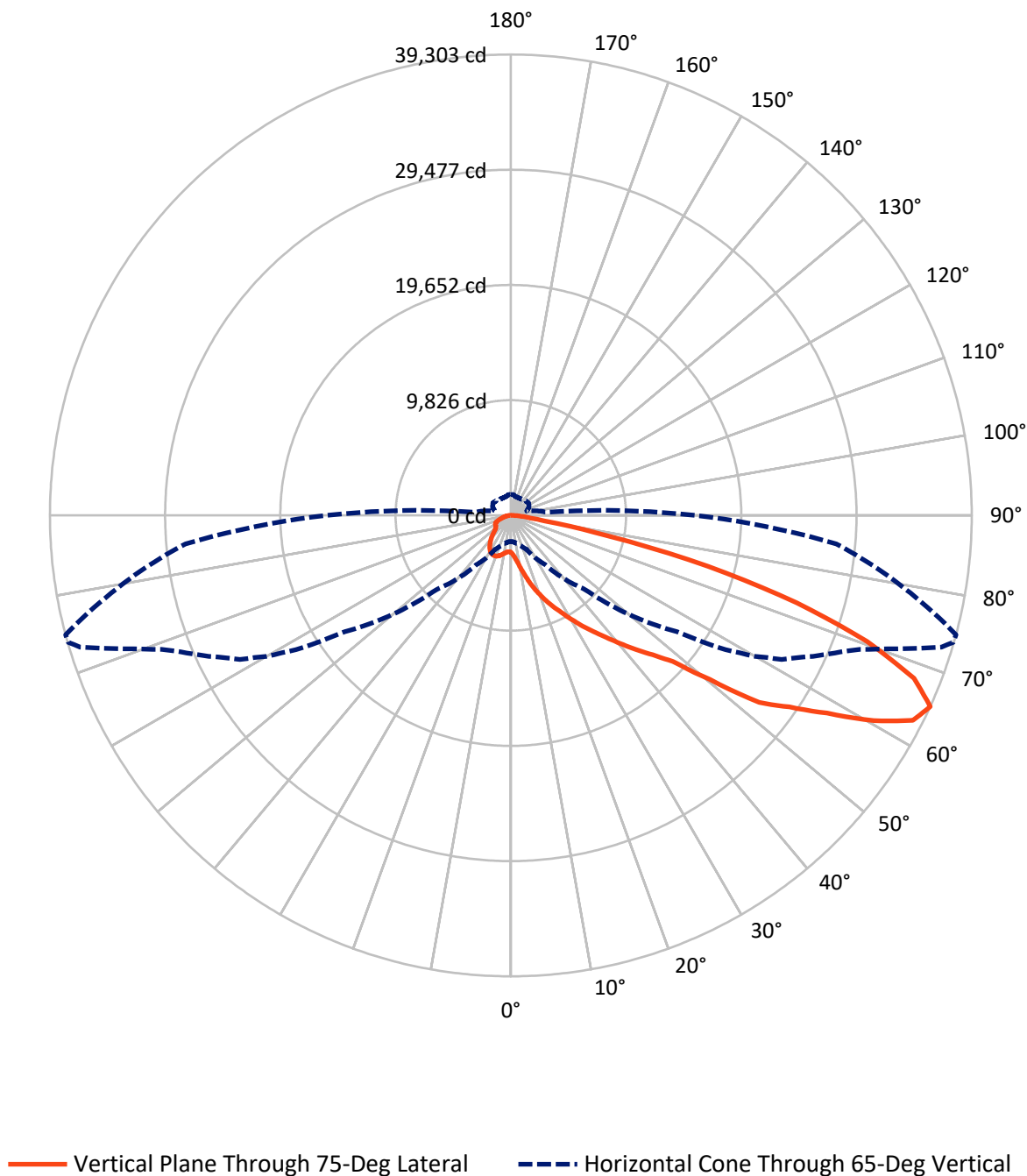


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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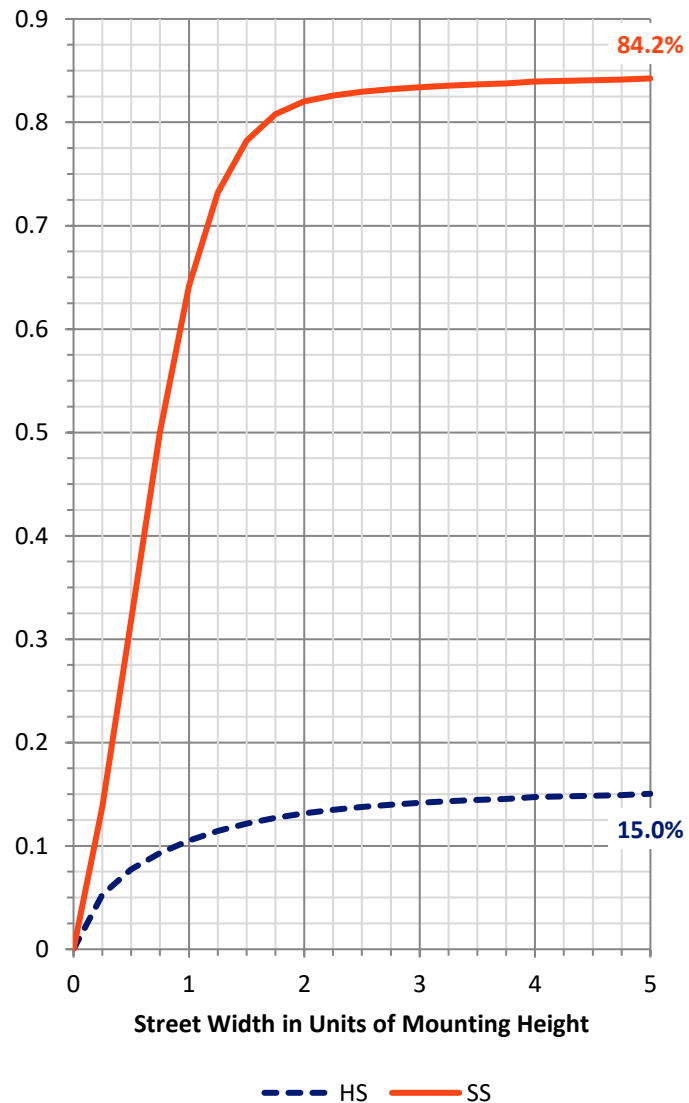
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5987.5	0.0	5987.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	32847.6	0.0	32847.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	38835.1	0.0	38835.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	1.0
10°-20°	1524.2	3.9
20°-30°	3127.2	8.1
30°-40°	5261.4	13.5
40°-50°	7269.7	18.7
50°-60°	9074.8	23.4
60°-70°	8166.4	21.0
70°-80°	3423.3	8.8
80°-90°	598.1	1.5
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°	38835.1	100.0
0°-180°	38835.1	100.0

Coefficient of Utilization



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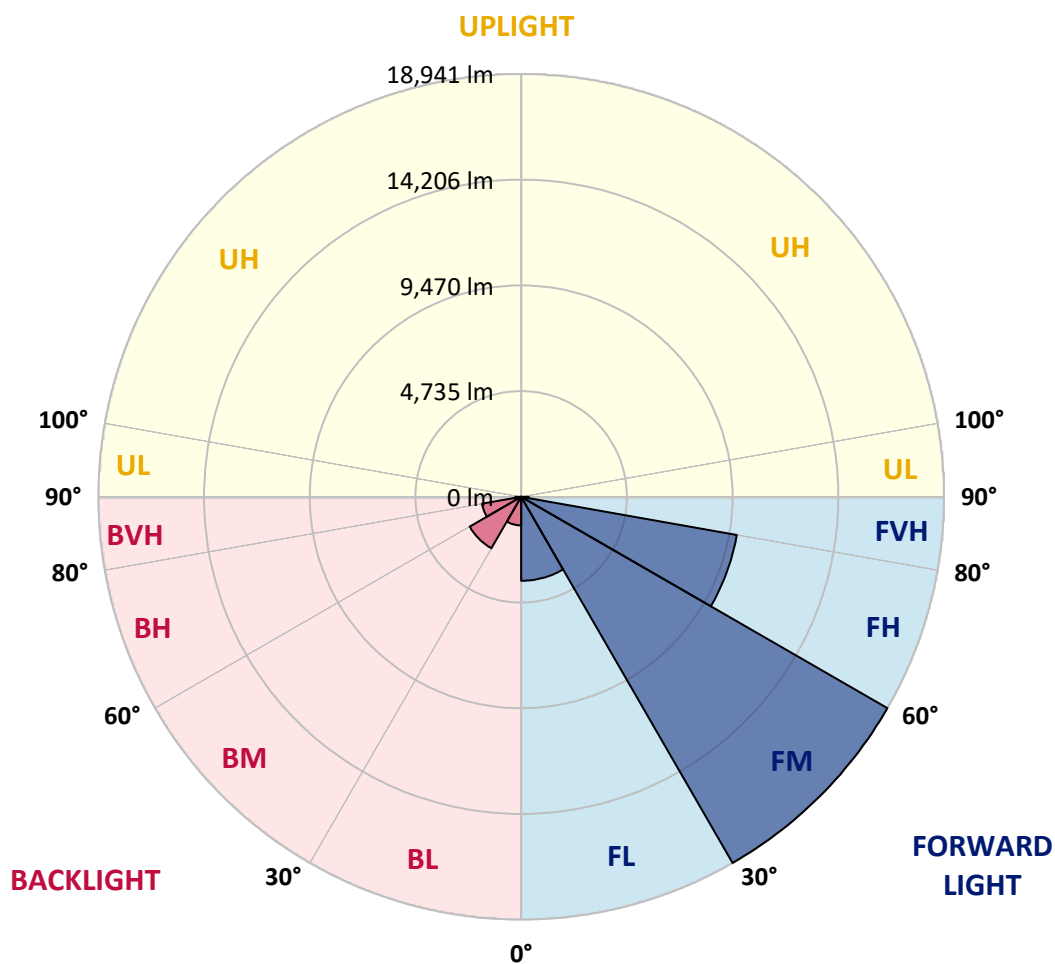
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3761.1	9.7			
FM	(30°-60°)	18940.8	48.8			
FH	(60°-80°)	9809.6	25.3			G4/12000
FVH	(80°-90°)	336.1	0.9			G3/500
BL	(0°-30°)	1280.5	3.3	B3/2500		
BM	(30°-60°)	2665.1	6.9	B3/5000		
BH	(60°-80°)	1780.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	261.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	4007.2	3963.1	3974.1	3900.5	3810.5	3692.9	3562.3	3560.5	3562.3	3549.5	3501.6
5°	5556.7	5503.4	5483.1	5317.7	5075.1	4729.5	4354.5	4314.1	4297.6	4255.3	4157.9
7.5°	6687.2	6657.7	6626.5	6501.5	6281.0	5895.0	5391.3	5304.9	5222.1	5202.0	5091.7
10°	7416.9	7409.5	7343.5	7310.3	7172.5	6837.9	6347.1	6264.4	6174.3	6143.1	6027.3
12.5°	7994.1	7992.2	7960.9	7970.3	7850.8	7608.0	7185.3	7109.9	7043.7	6948.3	6865.6
15°	8393.0	8394.8	8440.8	8492.2	8473.8	8310.3	7913.2	7880.1	7823.2	7757.0	7659.5
17.5°	8720.2	8729.4	8777.2	8870.9	8972.0	8959.1	8644.8	8617.3	8567.6	8477.5	8426.1
20°	9459.1	9494.0	9402.1	9402.1	9413.1	9462.7	9312.0	9290.0	9220.2	9172.4	9131.9
22.5°	10707.2	10747.7	10539.9	10328.5	10120.8	9970.1	9819.3	9847.0	9799.1	9766.0	9742.2
25°	12328.5	12359.7	12023.3	11666.7	11244.0	10692.4	10319.3	10302.8	10277.0	10256.8	10245.8
27.5°	13854.1	13866.9	13549.0	13027.0	12536.2	11743.9	10826.7	10806.5	10775.2	10736.6	10703.5
30°	15159.1	15155.5	14828.3	14330.2	13804.5	12927.7	11596.9	11534.4	11442.5	11337.8	11256.8
32.5°	16289.7	16284.1	15925.7	15409.2	14857.7	14100.5	12652.0	12523.3	12379.9	12175.9	12052.7
35°	17179.3	17175.7	16837.4	16298.9	15666.4	15205.2	13861.5	13703.4	13521.4	13247.4	13058.2
37.5°	17515.7	17515.7	17326.4	16958.6	16400.0	16083.7	15205.2	15014.0	14819.2	14508.4	14295.3
40°	17319.0	17322.7	17363.2	17295.0	17023.0	16780.5	16458.7	16344.7	16177.5	15898.1	15675.8
42.5°	16659.1	16679.3	16947.8	17276.7	17412.7	17374.2	17570.8	17519.4	17401.7	17186.7	17010.2
45°	15822.7	15885.2	16179.3	16800.7	17521.3	17887.0	18502.7	18508.3	18486.2	18370.5	18234.4
47.5°	14673.9	14762.1	15150.0	15990.0	17267.6	18385.2	19449.5	19499.1	19545.0	19469.7	19407.1
50°	13148.3	13253.0	13833.9	14947.8	16751.0	18901.7	21238.0	21462.3	21671.7	21646.0	21688.3
52.5°	11514.2	11637.3	12348.7	13589.4	15863.3	19021.2	22381.2	22747.0	23112.8	23412.5	23730.4
55°	10040.0	9973.7	10685.1	11992.1	14403.7	18482.6	23408.8	23849.9	24258.0	24625.6	25004.3
57.5°	8041.9	8150.3	8863.5	10155.7	12471.8	16962.4	24116.5	24761.7	25348.0	25956.5	26493.1
60°	5878.3	5986.9	6760.8	8073.1	10374.5	14657.3	23576.1	24554.0	25493.3	26425.2	27153.1
62.5°	3549.5	3630.3	4312.3	5562.3	7999.6	11924.0	21168.1	22451.1	23833.4	24947.2	26063.0
65°	2209.4	2255.4	2507.3	3194.7	5137.6	8902.1	17295.0	18693.9	20182.8	21596.4	22756.2
67.5°	1808.8	1825.2	1871.3	2018.2	2821.5	5804.8	12872.5	14111.5	15455.2	16822.7	18113.1
70°	1626.8	1615.7	1615.7	1624.9	1808.8	3121.2	8427.9	9234.8	10354.3	11543.6	12723.7
72.5°	1468.7	1457.6	1437.5	1409.9	1476.0	1904.3	4356.3	4964.8	5771.7	6828.7	7959.2
75°	1319.8	1305.1	1281.2	1246.2	1292.2	1437.5	2091.8	2347.3	2740.7	3303.1	3933.7
77.5°	1165.4	1147.0	1125.0	1099.2	1158.0	1117.6	1226.0	1318.0	1468.7	1648.8	1886.0
80°	990.8	974.3	966.8	954.1	1023.9	851.0	865.8	922.7	1010.9	1108.4	1218.7
82.5°	775.7	775.7	805.1	810.6	887.8	612.1	647.1	696.6	742.6	794.1	845.5
85°	511.0	514.7	613.9	652.5	700.4	411.8	485.2	501.8	538.5	568.0	590.0
87.5°	159.9	172.7	375.0	415.4	402.5	233.5	297.7	305.2	330.8	351.0	369.6
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	3501.6	3479.6	3459.3	3457.5	3442.9	3422.6	3429.9	3398.7	3400.5	3384.0	3365.6
5°	4117.4	4102.8	4029.3	4008.9	3953.9	3918.9	3913.4	3839.9	3830.7	3788.4	3742.4
7.5°	5003.4	4955.7	4852.8	4803.0	4709.3	4639.4	4606.4	4509.0	4461.2	4350.9	4301.2
10°	5931.6	5871.0	5744.2	5674.4	5584.2	5472.1	5411.5	5270.0	5214.8	5113.8	4992.4
12.5°	6792.0	6731.3	6600.8	6547.5	6427.9	6308.5	6242.3	6082.5	6010.8	5848.9	5753.4
15°	7587.8	7527.2	7413.2	7358.1	7238.7	7141.1	7053.0	6895.0	6810.3	6659.6	6534.6
17.5°	8359.9	8295.5	8196.3	8146.7	8030.9	7931.5	7836.0	7687.2	7600.7	7450.0	7337.9
20°	9076.7	9028.9	8957.3	8891.1	8775.2	8685.2	8571.3	8442.6	8317.6	8207.3	8100.7
22.5°	9701.7	9683.3	9606.2	9576.7	9477.4	9400.2	9301.0	9174.2	9084.2	8944.4	8845.2
25°	10240.4	10234.8	10198.0	10188.9	10118.9	10045.6	10023.5	9918.7	9835.9	9712.7	9609.8
27.5°	10703.5	10709.0	10699.9	10725.6	10707.2	10674.1	10675.9	10641.0	10593.2	10490.3	10400.3
30°	11218.2	11188.8	11205.3	11242.1	11253.1	11256.8	11317.5	11337.8	11334.0	11265.9	11221.9
32.5°	11946.1	11876.3	11811.9	11806.4	11843.1	11857.9	11960.8	12014.1	12060.0	12076.7	12084.0
35°	12874.3	12734.7	12600.5	12528.8	12466.3	12482.9	12556.4	12642.7	12743.9	12813.7	12896.4
37.5°	14043.4	13872.4	13635.3	13466.2	13424.0	13332.1	13379.9	13447.8	13547.2	13655.6	13799.0
40°	15460.6	15201.5	14934.9	14710.6	14589.4	14420.2	14418.4	14405.5	14466.3	14567.3	14769.4
42.5°	16824.5	16594.8	16311.8	16076.4	15918.3	15692.3	15646.3	15526.9	15554.3	15642.6	15839.4
45°	18102.1	17912.7	17740.0	17468.0	17333.8	17089.2	17012.0	16870.5	16791.5	16831.9	17028.6
47.5°	19339.1	19217.8	19037.7	18861.2	18758.2	18539.5	18440.2	18339.1	18238.1	18234.4	18440.2
50°	21750.8	21686.5	21473.3	21289.3	21339.0	21070.6	21087.2	20815.2	20938.3	20952.9	21385.0
52.5°	24017.3	24241.5	24399.6	24592.5	24717.5	24741.4	24824.1	24947.2	25096.2	25390.3	25790.9
55°	25315.0	25596.1	25759.7	25906.8	26149.4	26200.9	26338.8	26502.4	26632.9	26963.8	27303.8
57.5°	26857.1	27379.2	27632.9	27866.2	28193.5	28318.5	28548.3	28726.6	28895.7	29287.2	29699.0
60°	27807.5	28443.5	28959.9	29329.4	29739.4	30033.4	30380.8	30660.3	31057.3	31526.0	32139.9
62.5°	27051.9	27985.7	28671.4	29305.5	29862.5	30425.0	30923.1	31445.2	32048.0	32757.6	33709.8
65°	24042.9	24993.3	26167.8	26825.9	27563.0	28430.6	29187.9	30033.4	30855.2	31888.2	33296.2
67.5°	19355.8	20460.4	21780.2	22443.7	23291.2	24259.8	25109.1	26142.1	27101.6	28353.5	30094.2
70°	13951.6	15379.8	16490.0	17182.9	18171.9	19170.0	19989.8	21191.9	21986.0	23269.1	25068.7
72.5°	8834.1	9960.9	11321.1	12194.2	13072.9	14083.8	14922.1	15958.7	16699.5	17868.6	19499.1
75°	4749.7	5580.6	6775.3	7604.5	8545.5	9409.5	10391.0	11085.9	11633.6	12558.3	13881.7
77.5°	2226.0	2731.5	3336.2	3974.1	4612.0	5277.3	5924.4	6486.8	6722.0	7251.5	8032.7
80°	1351.0	1514.7	1691.2	1887.8	2154.3	2369.4	2654.2	2860.2	2874.8	3042.1	3281.0
82.5°	902.5	963.2	1016.5	1066.2	1134.1	1187.4	1248.1	1319.8	1349.3	1387.8	1464.9
85°	615.7	645.1	656.2	687.5	680.1	698.5	722.4	746.2	759.2	757.2	792.2
87.5°	378.7	393.4	400.8	408.1	402.5	395.2	406.2	419.1	422.8	411.8	415.4
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	3369.3	3352.7	3336.2	3325.2	3321.5	3224.1	3181.8	3154.2	3095.5	3047.7	3009.0
5°	3716.8	3681.8	3654.2	3621.2	3602.8	3356.5	3266.5	3203.9	3101.0	3040.2	2985.2
7.5°	4275.6	4178.1	4121.2	4056.8	4001.6	3556.8	3407.9	3310.4	3167.1	3086.2	3023.7
10°	4909.7	4808.6	4718.5	4619.3	4532.8	3823.3	3606.4	3455.8	3266.5	3161.6	3078.9
12.5°	5617.3	5518.1	5404.2	5277.3	5167.0	4161.5	3860.1	3645.0	3385.8	3246.2	3130.4
15°	6453.7	6279.1	6141.3	5994.2	5865.5	4566.0	4156.0	3858.3	3512.6	3323.3	3168.9
17.5°	7231.3	7047.4	6860.0	6731.3	6582.5	5020.0	4453.9	4075.2	3617.5	3373.0	3176.2
20°	7990.4	7790.0	7628.3	7455.6	7299.3	5490.5	4771.8	4266.3	3685.6	3374.8	3130.4
22.5°	8659.5	8534.5	8354.4	8166.9	8008.8	5961.0	5069.6	4428.1	3711.2	3332.5	3049.5
25°	9420.5	9288.1	9067.5	8909.4	8733.0	6440.9	5361.9	4553.1	3696.5	3253.5	2924.6
27.5°	10233.0	10085.9	9859.8	9694.3	9481.2	6938.9	5630.2	4643.2	3641.4	3124.9	2757.2
30°	11080.3	10946.1	10723.7	10556.5	10341.4	7466.6	5929.8	4703.8	3531.0	2946.5	2562.3
32.5°	11990.2	11878.1	11657.5	11482.9	11253.1	8038.2	6209.2	4722.1	3363.8	2735.2	2356.5
35°	12854.2	12777.0	12591.2	12427.7	12188.8	8578.6	6505.2	4713.0	3165.2	2503.5	2169.1
37.5°	13826.5	13780.6	13688.6	13481.0	13188.6	9312.0	6860.0	4674.4	2922.6	2273.8	2025.6
40°	14863.2	14866.9	14767.7	14626.1	14354.1	10201.7	7282.7	4599.0	2658.0	2071.5	1895.1
42.5°	15960.6	16017.6	15969.8	15868.7	15607.6	11098.8	7788.2	4507.2	2400.7	1874.9	1766.5
45°	17217.9	17287.8	17361.3	17212.3	16958.6	12282.5	8453.6	4387.7	2123.0	1711.3	1678.2
47.5°	18668.2	18778.5	18844.7	18846.4	18592.8	13749.3	9534.5	4316.0	1876.7	1600.9	1635.9
50°	21728.7	21763.7	21919.9	22191.9	21997.0	17144.4	11422.2	4271.8	1709.5	1533.0	1604.7
52.5°	26138.4	26522.5	26792.8	26774.4	26509.7	19300.5	12462.6	4043.9	1610.3	1507.2	1590.0
55°	27934.4	28414.1	28914.1	29046.3	28840.5	21140.5	13446.0	3816.0	1562.4	1525.7	1595.5
57.5°	30327.5	31136.3	31822.0	32110.5	31812.8	23495.2	14740.0	3696.5	1547.7	1575.3	1630.4
60°	33123.4	34123.3	35024.0	35542.4	35542.4	26200.9	16082.0	3646.8	1527.5	1648.8	1689.2
62.5°	34919.3	36387.9	37748.2	38507.4	38485.3	28085.0	16677.5	3477.7	1481.5	1700.3	1770.1
65°	34926.6	36672.9	38406.2	39259.1	39303.2	27853.5	15694.1	3071.5	1397.0	1707.6	1851.0
67.5°	32014.9	33877.0	35897.1	36851.2	37071.6	25640.3	13585.8	2525.6	1259.1	1634.1	1880.5
70°	27039.2	28857.0	30919.5	31856.9	32248.4	21857.5	10942.6	1946.6	1082.6	1472.4	1819.7
72.5°	21302.3	23085.3	24520.8	25206.4	25511.6	16707.0	7968.4	1470.5	887.8	1240.7	1656.2
75°	15081.9	16420.1	17182.9	17335.5	17383.3	10071.2	4841.8	1093.6	731.6	965.0	1398.8
77.5°	8512.5	9086.0	9023.5	9091.5	8525.3	3887.7	2108.3	783.1	602.9	733.4	1084.5
80°	3323.3	3426.3	3218.6	3154.2	2893.3	1446.6	930.2	546.0	481.7	555.1	759.2
82.5°	1464.9	1512.8	1468.7	1479.7	1415.4	746.2	557.0	395.2	367.6	406.2	503.6
85°	807.0	821.6	818.1	841.9	807.0	297.7	264.7	242.7	257.3	275.8	323.5
87.5°	393.4	397.0	384.1	404.4	391.4	150.8	130.4	137.8	150.8	154.4	154.4
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):

	135°	145°	155°	165°	175°	180°
0°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	2981.4	2966.7	2968.6	2965.0	2957.5	2957.5
5°	2955.8	2941.0	2941.0	2937.3	2928.1	2930.0
7.5°	2981.4	2957.5	2948.4	2935.5	2922.6	2922.6
10°	3010.8	2968.6	2942.9	2920.8	2904.2	2904.2
12.5°	3032.9	2966.7	2924.6	2895.1	2878.6	2878.6
15°	3040.2	2954.0	2895.1	2860.2	2845.4	2843.6
17.5°	3016.4	2904.2	2832.5	2792.1	2773.8	2768.2
20°	2942.9	2814.2	2727.7	2681.9	2656.1	2647.0
22.5°	2832.5	2685.5	2584.4	2536.7	2503.5	2498.0
25°	2678.2	2520.1	2420.8	2374.9	2356.5	2351.0
27.5°	2498.0	2351.0	2266.5	2237.0	2220.4	2218.6
30°	2327.1	2202.1	2139.7	2117.6	2097.3	2093.6
32.5°	2167.1	2088.2	2064.2	2033.0	1985.2	1979.7
35°	2053.2	2045.9	2029.3	1959.4	1900.7	1884.0
37.5°	1983.4	2051.4	1966.7	1829.0	1786.7	1783.0
40°	1942.9	1994.4	1849.2	1801.3	1805.1	1801.3
42.5°	1851.0	1904.3	1852.8	1830.7	1845.5	1849.2
45°	1759.1	1818.0	1880.5	1865.7	1900.7	1900.7
47.5°	1707.6	1795.9	1878.6	1878.6	1930.1	1948.4
50°	1648.8	1777.5	1849.2	1874.9	1915.4	1900.7
52.5°	1645.1	1746.3	1806.9	1852.8	1871.3	1854.6
55°	1650.7	1720.5	1764.6	1816.1	1838.2	1840.0
57.5°	1658.0	1705.7	1735.2	1759.1	1825.2	1825.2
60°	1676.4	1693.0	1709.5	1722.4	1808.8	1810.5
62.5°	1705.7	1680.1	1676.4	1689.2	1799.5	1792.2
65°	1751.8	1661.8	1634.1	1647.0	1790.3	1768.3
67.5°	1814.2	1634.1	1580.8	1590.0	1783.0	1735.2
70°	1871.3	1590.0	1514.7	1505.5	1713.1	1628.6
72.5°	1876.7	1538.5	1422.8	1395.1	1488.8	1408.1
75°	1784.9	1503.6	1321.6	1240.7	1229.7	1218.7
77.5°	1608.4	1483.4	1204.0	1077.2	1055.1	1062.4
80°	1345.5	1408.1	1062.4	911.8	1031.2	1018.3
82.5°	1005.5	1242.6	902.5	807.0	805.1	711.4
85°	558.8	968.7	735.2	604.8	420.9	408.1
87.5°	156.2	538.5	514.7	341.9	233.5	242.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)