

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: P194764

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194764
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-06-LED-E1-T2R-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40687 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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



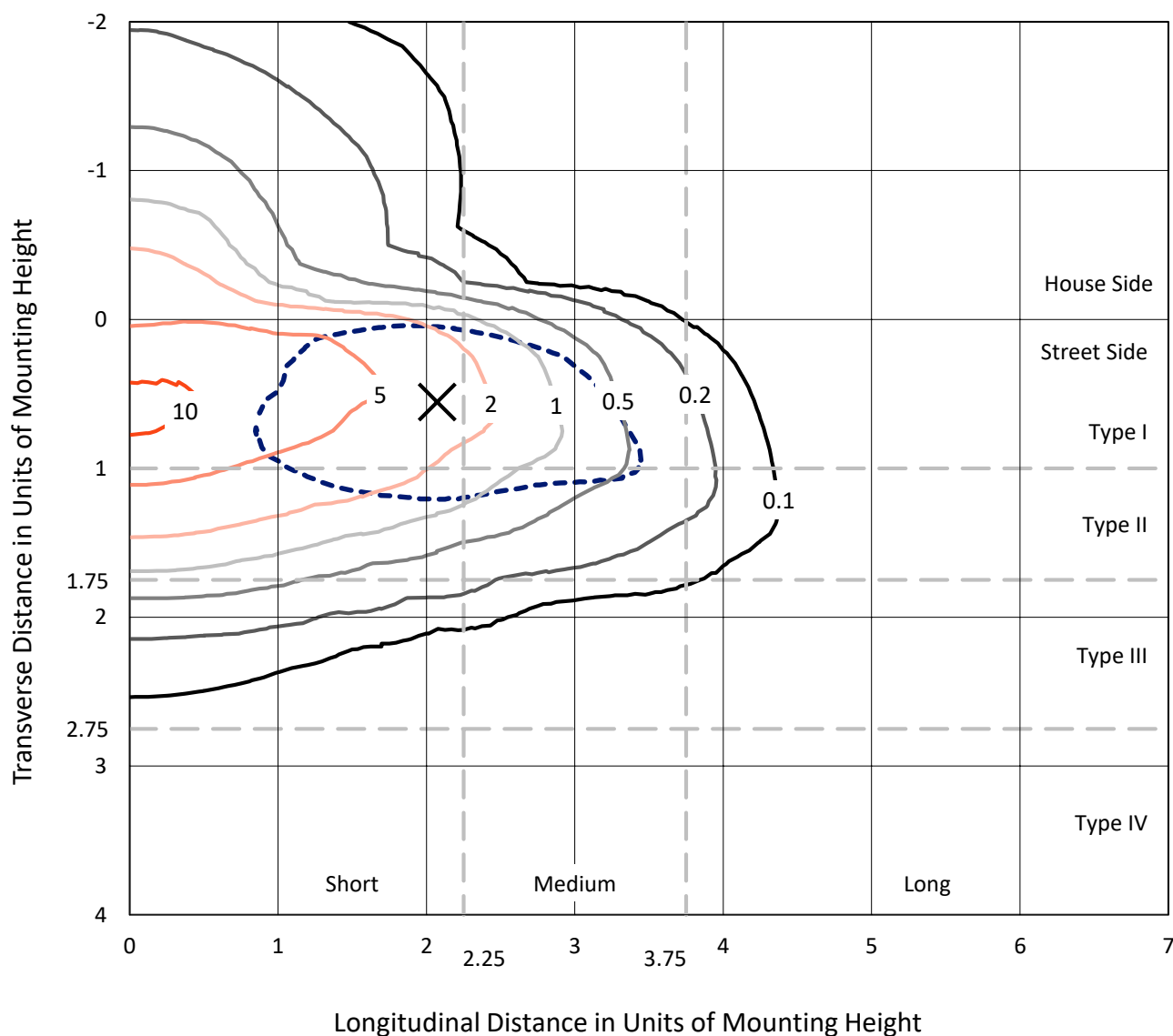
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

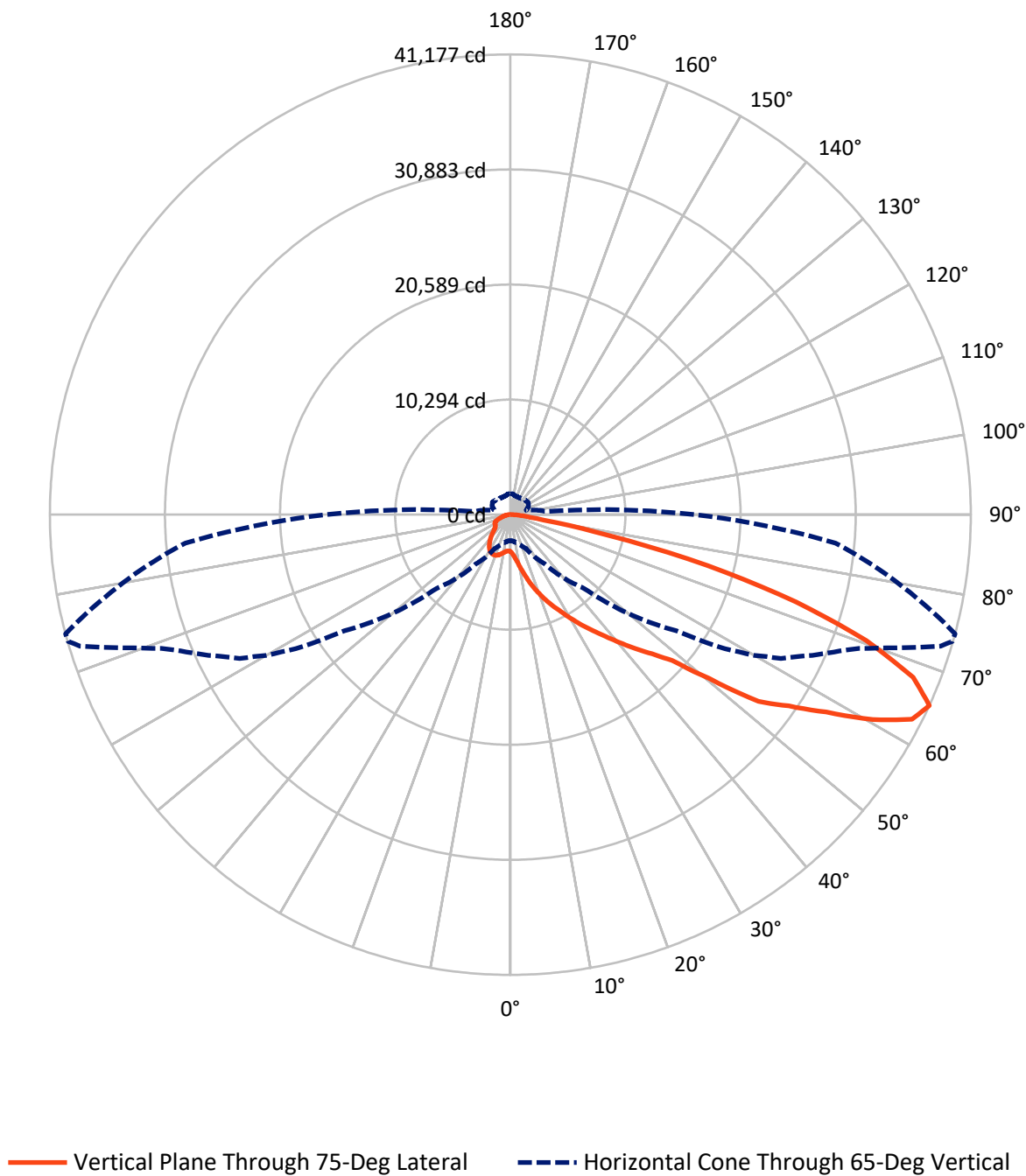


Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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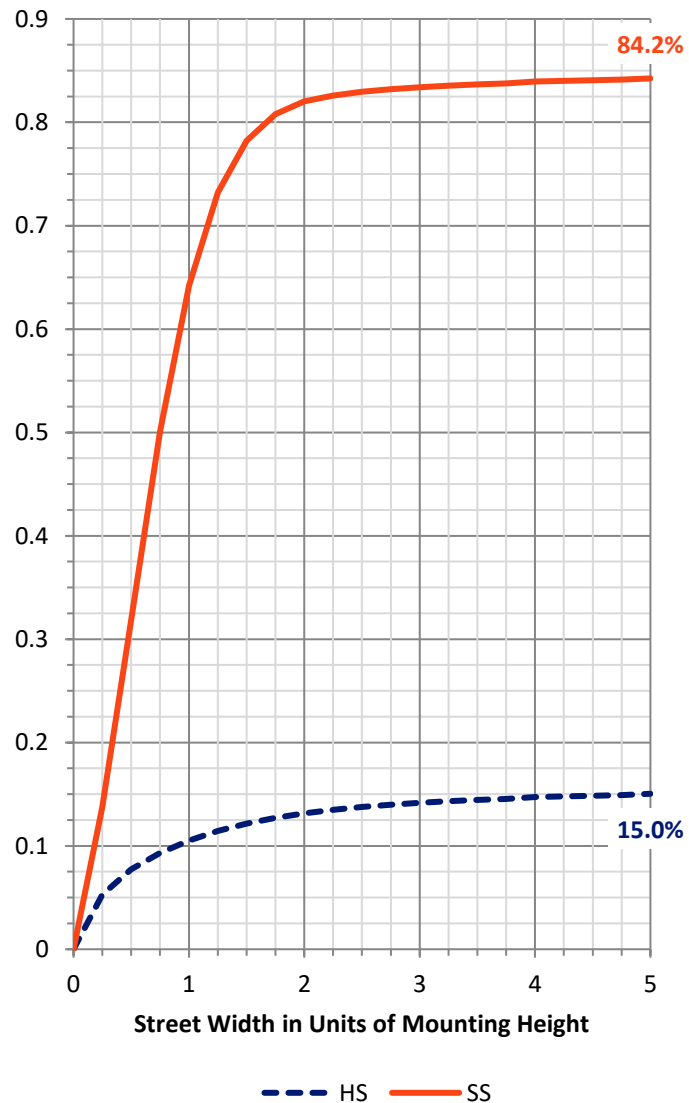
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6273.0	0.0	6273.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	34414.0	0.0	34414.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	40687.0	0.0	40687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	1.0
10°-20°	1596.9	3.9
20°-30°	3276.3	8.1
30°-40°	5512.3	13.5
40°-50°	7616.4	18.7
50°-60°	9507.6	23.4
60°-70°	8555.8	21.0
70°-80°	3586.5	8.8
80°-90°	626.6	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°	40687.0	100.0
0°-180°	40687.0	100.0

Coefficient of Utilization



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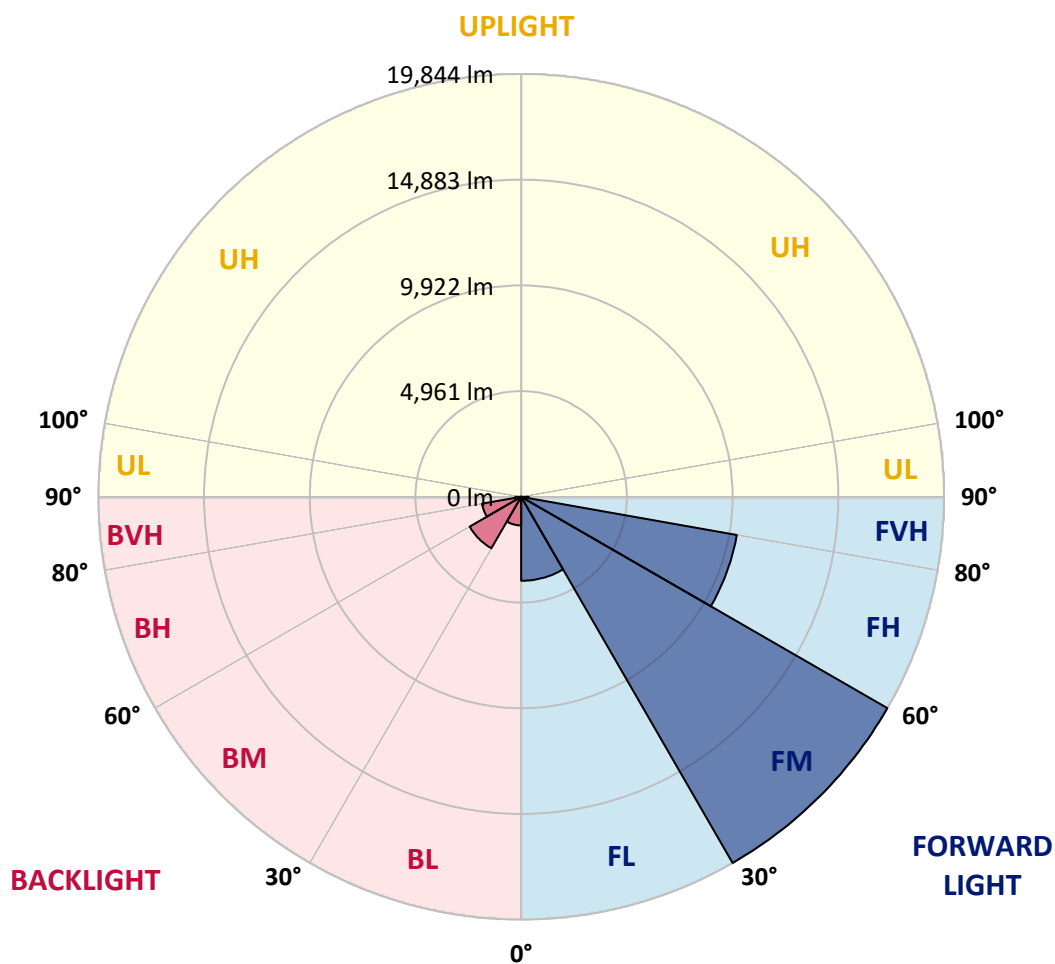
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3940.4	9.7			
FM	(30°-60°)	19844.0	48.8			
FH	(60°-80°)	10277.4	25.3			G4/12000
FVH	(80°-90°)	352.2	0.9			G3/500
BL	(0°-30°)	1341.5	3.3	B3/2500		
BM	(30°-60°)	2792.2	6.9	B3/5000		
BH	(60°-80°)	1864.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	274.4	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°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	4198.2	4152.0	4163.6	4086.5	3992.2	3868.9	3732.2	3730.3	3732.2	3718.7	3668.6
5°	5821.7	5765.8	5744.7	5571.3	5317.1	4955.1	4562.2	4519.9	4502.5	4458.2	4356.2
7.5°	7006.1	6975.2	6942.5	6811.6	6580.5	6176.0	5648.4	5557.9	5471.2	5450.0	5334.5
10°	7770.6	7762.9	7693.6	7658.9	7514.5	7164.0	6649.8	6563.1	6468.8	6436.0	6314.7
12.5°	8375.3	8373.4	8340.6	8350.3	8225.1	7970.9	7527.9	7449.0	7379.7	7279.5	7192.9
15°	8793.2	8795.1	8843.3	8897.2	8877.9	8706.5	8290.6	8255.9	8196.2	8126.9	8024.8
17.5°	9136.0	9145.6	9195.7	9293.9	9399.8	9386.3	9057.0	9028.1	8976.1	8881.8	8827.9
20°	9910.2	9946.8	9850.5	9850.5	9862.0	9914.0	9756.1	9733.0	9659.8	9609.7	9567.4
22.5°	11217.8	11260.1	11042.5	10821.1	10603.4	10445.5	10287.6	10316.5	10266.4	10231.8	10206.7
25°	12916.3	12949.1	12596.7	12223.0	11780.1	11202.4	10811.4	10794.1	10767.1	10746.0	10734.4
27.5°	14514.7	14528.2	14195.1	13648.1	13133.9	12303.9	11343.0	11321.8	11289.0	11248.6	11213.9
30°	15882.1	15878.2	15535.4	15013.5	14462.8	13544.1	12149.9	12084.4	11988.1	11878.3	11793.6
32.5°	17066.4	17060.7	16685.1	16144.0	15566.2	14772.8	13255.3	13120.5	12970.3	12756.5	12627.5
35°	17998.5	17994.7	17640.3	17076.1	16413.6	15930.2	14522.5	14356.8	14166.2	13879.2	13680.9
37.5°	18350.9	18350.9	18152.6	17767.4	17182.0	16850.7	15930.2	15729.9	15525.8	15200.3	14976.9
40°	18144.9	18148.7	18191.1	18119.8	17834.8	17580.6	17243.6	17124.2	16949.0	16656.2	16423.2
42.5°	17453.5	17474.7	17755.9	18100.6	18243.1	18202.7	18408.7	18354.8	18231.5	18006.2	17821.3
45°	16577.3	16642.8	16950.9	17601.8	18356.7	18740.0	19385.1	19390.9	19367.8	19246.4	19103.9
47.5°	15373.7	15466.1	15872.4	16752.5	18091.0	19261.8	20376.9	20428.9	20477.0	20398.1	20332.6
50°	13775.2	13885.0	14493.6	15660.6	17549.8	19803.0	22250.7	22485.6	22705.2	22678.2	22722.5
52.5°	12063.2	12192.2	12937.5	14237.4	16619.6	19928.2	23448.5	23831.8	24215.0	24528.9	24862.1
55°	10518.7	10449.4	11194.7	12563.9	15090.6	19363.9	24525.1	24987.2	25414.8	25799.9	26196.6
57.5°	8425.4	8539.0	9286.2	10640.0	13066.5	17771.3	25266.5	25942.4	26556.8	27194.2	27756.5
60°	6158.7	6272.3	7083.1	8458.1	10869.2	15356.3	24700.3	25724.8	26708.9	27685.3	28447.9
62.5°	3718.7	3803.5	4517.9	5827.5	8381.1	12492.7	22177.5	23521.7	24969.9	26136.9	27305.9
65°	2314.8	2363.0	2626.8	3347.0	5382.6	9326.6	18119.8	19585.4	21145.3	22626.2	23841.4
67.5°	1895.0	1912.3	1960.5	2114.5	2956.1	6081.7	13486.4	14784.4	16192.1	17624.9	18976.8
70°	1704.3	1692.8	1692.8	1702.4	1895.0	3270.0	8829.8	9675.2	10848.0	12094.0	13330.4
72.5°	1538.7	1527.2	1506.0	1477.1	1546.4	1995.1	4564.1	5201.6	6047.0	7154.3	8338.7
75°	1382.7	1367.3	1342.3	1305.7	1353.8	1506.0	2191.6	2459.2	2871.4	3460.7	4121.2
77.5°	1221.0	1201.7	1178.6	1151.6	1213.3	1170.9	1284.5	1380.8	1538.7	1727.4	1975.9
80°	1038.0	1020.7	1013.0	999.5	1072.7	891.6	907.1	966.8	1059.2	1161.3	1276.8
82.5°	812.7	812.7	843.5	849.3	930.2	641.3	677.9	729.9	778.0	831.9	885.9
85°	535.4	539.2	643.2	683.7	733.7	431.4	508.4	525.7	564.3	595.1	618.2
87.5°	167.5	181.0	392.9	435.2	421.7	244.6	312.0	319.7	346.6	367.8	387.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	3668.6	3645.5	3624.4	3622.4	3607.0	3585.8	3593.5	3560.8	3562.7	3545.4	3526.1
5°	4313.8	4298.4	4221.4	4200.2	4142.4	4105.8	4100.0	4023.0	4013.4	3969.1	3920.9
7.5°	5242.0	5192.0	5084.1	5032.1	4933.9	4860.7	4826.1	4724.0	4673.9	4558.4	4506.4
10°	6214.6	6151.0	6018.1	5944.9	5850.6	5733.1	5669.6	5521.3	5463.5	5357.6	5230.5
12.5°	7115.8	7052.3	6915.5	6859.7	6734.5	6609.3	6540.0	6372.5	6297.4	6127.9	6027.8
15°	7949.7	7886.1	7766.7	7709.0	7583.8	7481.7	7389.3	7223.7	7135.1	6977.2	6846.2
17.5°	8758.5	8691.1	8587.1	8535.1	8413.8	8309.8	8209.7	8053.7	7963.2	7805.3	7687.8
20°	9509.6	9459.5	9384.4	9315.1	9193.8	9099.4	8980.0	8845.2	8714.2	8598.7	8487.0
22.5°	10164.4	10145.1	10064.2	10033.4	9929.4	9848.5	9744.5	9611.7	9517.3	9370.9	9266.9
25°	10728.6	10722.8	10684.3	10674.7	10601.5	10524.5	10501.4	10391.6	10305.0	10175.9	10068.1
27.5°	11213.9	11219.7	11210.1	11237.0	11217.8	11183.1	11185.0	11148.5	11098.4	10990.5	10896.2
30°	11753.2	11722.3	11739.7	11778.2	11789.7	11793.6	11857.1	11878.3	11874.5	11803.2	11757.0
32.5°	12515.8	12442.6	12375.2	12369.4	12407.9	12423.3	12531.2	12587.0	12635.2	12652.5	12660.2
35°	13488.3	13341.9	13201.4	13126.2	13060.8	13078.1	13155.1	13245.6	13351.6	13424.7	13511.4
37.5°	14713.1	14534.0	14285.6	14108.4	14064.1	13967.8	14017.9	14089.1	14193.1	14306.8	14457.0
40°	16197.9	15926.4	15647.1	15412.2	15285.1	15107.9	15106.0	15092.5	15156.0	15262.0	15473.8
42.5°	17626.8	17386.1	17089.5	16843.0	16677.4	16440.5	16392.4	16267.2	16296.1	16388.6	16594.6
45°	18965.3	18766.9	18585.9	18300.9	18160.3	17904.2	17823.3	17675.0	17592.2	17634.5	17840.6
47.5°	20261.3	20134.2	19945.5	19760.6	19652.8	19423.6	19319.6	19213.7	19107.8	19103.9	19319.6
50°	22788.0	22720.6	22497.2	22304.6	22356.6	22075.4	22092.8	21807.7	21936.8	21952.2	22404.7
52.5°	25162.5	25397.4	25563.1	25765.3	25896.2	25921.3	26007.9	26136.9	26292.9	26601.1	27020.9
55°	26522.1	26816.8	26988.1	27142.2	27396.4	27450.3	27594.8	27766.2	27902.9	28249.5	28605.8
57.5°	28137.9	28684.8	28950.5	29195.1	29537.9	29668.9	29909.6	30096.4	30273.6	30683.8	31115.1
60°	29133.5	29799.8	30341.0	30728.1	31157.5	31465.6	31829.6	32122.3	32538.3	33029.4	33672.6
62.5°	28342.0	29320.3	30038.6	30703.0	31286.5	31875.8	32397.7	32944.6	33576.3	34319.7	35317.2
65°	25189.5	26185.1	27415.7	28105.1	28877.4	29786.3	30579.8	31465.6	32326.5	33408.8	34883.9
67.5°	20278.7	21436.1	22818.8	23514.0	24401.8	25416.7	26306.4	27388.7	28394.0	29705.5	31529.2
70°	14616.8	16113.2	17276.3	18002.4	19038.4	20084.2	20943.1	22202.5	23034.5	24378.7	26264.0
72.5°	9255.4	10435.9	11861.0	12775.8	13696.3	14755.5	15633.6	16719.8	17495.9	18720.7	20428.9
75°	4976.3	5846.7	7098.5	7967.0	8953.0	9858.2	10886.5	11614.5	12188.4	13157.1	14543.6
77.5°	2332.1	2861.7	3495.3	4163.6	4831.8	5529.0	6206.9	6796.1	7042.6	7597.3	8415.7
80°	1415.5	1586.9	1771.7	1977.8	2257.0	2482.4	2780.9	2996.5	3011.9	3187.2	3437.6
82.5°	945.6	1009.1	1065.0	1117.0	1188.2	1244.1	1307.6	1382.7	1413.5	1454.0	1534.9
85°	645.1	676.0	687.5	720.2	712.5	731.8	756.8	781.9	795.4	793.4	830.0
87.5°	396.7	412.1	419.8	427.5	421.7	414.0	425.6	439.1	442.9	431.4	435.2
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	3530.0	3512.7	3495.3	3483.8	3479.9	3377.9	3333.6	3304.7	3243.0	3193.0	3152.5
5°	3894.0	3857.4	3828.5	3793.8	3774.6	3516.5	3422.1	3356.7	3248.8	3185.3	3127.5
7.5°	4479.4	4377.3	4317.6	4250.2	4192.5	3726.4	3570.4	3468.4	3318.2	3233.4	3167.9
10°	5143.8	5037.9	4943.5	4839.5	4749.0	4005.7	3778.4	3620.5	3422.1	3312.4	3225.7
12.5°	5885.2	5781.2	5661.8	5529.0	5413.4	4360.0	4044.2	3818.9	3547.3	3401.0	3279.6
15°	6761.5	6578.5	6434.1	6280.0	6145.2	4783.7	4354.2	4042.3	3680.2	3481.8	3320.1
17.5°	7576.1	7383.5	7187.1	7052.3	6896.3	5259.4	4666.2	4269.5	3790.0	3533.8	3327.8
20°	8371.4	8161.5	7992.1	7811.0	7647.3	5752.4	4999.4	4469.8	3861.2	3535.8	3279.6
22.5°	9072.4	8941.5	8752.8	8556.3	8390.7	6245.4	5311.4	4639.2	3888.2	3491.5	3194.9
25°	9869.7	9731.1	9500.0	9334.3	9149.5	6748.0	5617.6	4770.2	3872.8	3408.7	3063.9
27.5°	10720.9	10566.9	10330.0	10156.7	9933.3	7269.9	5898.7	4864.6	3815.0	3273.9	2888.7
30°	11608.7	11468.1	11235.1	11059.9	10834.5	7822.6	6212.6	4928.1	3699.5	3087.1	2684.6
32.5°	12562.0	12444.5	12213.4	12030.5	11789.7	8421.5	6505.3	4947.4	3524.2	2865.6	2468.9
35°	13467.1	13386.2	13191.7	13020.3	12770.0	8987.7	6815.4	4937.7	3316.2	2622.9	2272.4
37.5°	14485.9	14437.7	14341.4	14123.8	13817.6	9756.1	7187.1	4897.3	3062.0	2382.2	2122.2
40°	15572.0	15575.9	15471.9	15323.6	15038.6	10688.2	7630.0	4818.3	2784.7	2170.4	1985.5
42.5°	16721.7	16781.4	16731.3	16625.4	16352.0	11628.0	8159.6	4722.1	2515.1	1964.3	1850.7
45°	18039.0	18112.1	18189.2	18033.2	17767.4	12868.2	8856.7	4596.9	2224.3	1792.9	1758.3
47.5°	19558.4	19674.0	19743.3	19745.2	19479.5	14405.0	9989.1	4521.8	1966.2	1677.4	1714.0
50°	22764.9	22801.5	22965.2	23250.2	23046.0	17961.9	11966.9	4475.6	1791.0	1606.1	1681.2
52.5°	27384.9	27787.4	28070.4	28051.2	27773.9	20220.9	13056.9	4236.8	1687.0	1579.2	1665.8
55°	29266.4	29769.0	30292.8	30431.5	30215.8	22148.6	14087.2	3998.0	1636.9	1598.4	1671.6
57.5°	31773.8	32621.1	33339.4	33641.8	33329.8	24615.6	15443.0	3872.8	1621.5	1650.4	1708.2
60°	34702.9	35750.5	36694.2	37237.3	37237.3	27450.3	16848.8	3820.8	1600.3	1727.4	1769.8
62.5°	36584.4	38123.1	39548.2	40343.6	40320.5	29424.3	17472.8	3643.6	1552.2	1781.4	1854.5
65°	36592.1	38421.6	40237.6	41131.2	41177.4	29181.6	16442.5	3218.0	1463.6	1789.1	1939.3
67.5°	33541.6	35492.5	37608.9	38608.4	38839.5	26863.0	14233.6	2646.0	1319.2	1712.0	1970.1
70°	28328.5	30233.1	32393.9	33376.0	33786.2	22899.7	11464.3	2039.4	1134.3	1542.6	1906.5
72.5°	22318.1	24186.1	25690.2	26408.5	26728.2	17503.6	8348.3	1540.6	930.2	1299.9	1735.1
75°	15801.2	17203.2	18002.4	18162.2	18212.3	10551.5	5072.6	1145.9	766.5	1011.0	1465.5
77.5°	8918.4	9519.2	9453.7	9525.0	8931.9	4073.1	2208.9	820.4	631.7	768.4	1136.2
80°	3481.8	3589.7	3372.1	3304.7	3031.2	1515.6	974.5	572.0	504.6	581.6	795.4
82.5°	1534.9	1584.9	1538.7	1550.3	1482.9	781.9	583.5	414.0	385.2	425.6	527.7
85°	845.4	860.8	857.0	882.0	845.4	312.0	277.3	254.2	269.6	288.9	338.9
87.5°	412.1	416.0	402.5	423.7	410.2	157.9	136.7	144.4	157.9	161.8	161.8
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):

	135°	145°	155°	165°	175°	180°
0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	3123.6	3108.2	3110.2	3106.3	3098.6	3098.6
5°	3096.7	3081.3	3081.3	3077.4	3067.8	3069.7
7.5°	3123.6	3098.6	3089.0	3075.5	3062.0	3062.0
10°	3154.5	3110.2	3083.2	3060.1	3042.8	3042.8
12.5°	3177.6	3108.2	3063.9	3033.1	3015.8	3015.8
15°	3185.3	3094.8	3033.1	2996.5	2981.1	2979.2
17.5°	3160.2	3042.8	2967.7	2925.3	2906.0	2900.3
20°	3083.2	2948.4	2857.9	2809.7	2782.8	2773.2
22.5°	2967.7	2813.6	2707.7	2657.6	2622.9	2617.2
25°	2805.9	2640.3	2536.3	2488.1	2468.9	2463.1
27.5°	2617.2	2463.1	2374.5	2343.7	2326.4	2324.4
30°	2438.1	2307.1	2241.6	2218.5	2197.3	2193.5
32.5°	2270.5	2187.7	2162.7	2129.9	2079.9	2074.1
35°	2151.1	2143.4	2126.1	2052.9	1991.3	1973.9
37.5°	2077.9	2149.2	2060.6	1916.2	1871.9	1868.0
40°	2035.6	2089.5	1937.4	1887.3	1891.1	1887.3
42.5°	1939.3	1995.1	1941.2	1918.1	1933.5	1937.4
45°	1843.0	1904.6	1970.1	1954.7	1991.3	1991.3
47.5°	1789.1	1881.5	1968.2	1968.2	2022.1	2041.3
50°	1727.4	1862.2	1937.4	1964.3	2006.7	1991.3
52.5°	1723.6	1829.5	1893.1	1941.2	1960.5	1943.1
55°	1729.4	1802.5	1848.8	1902.7	1925.8	1927.7
57.5°	1737.1	1787.1	1818.0	1843.0	1912.3	1912.3
60°	1756.3	1773.7	1791.0	1804.5	1895.0	1896.9
62.5°	1787.1	1760.2	1756.3	1769.8	1885.4	1877.7
65°	1835.3	1740.9	1712.0	1725.5	1875.7	1852.6
67.5°	1900.8	1712.0	1656.2	1665.8	1868.0	1818.0
70°	1960.5	1665.8	1586.9	1577.2	1794.8	1706.3
72.5°	1966.2	1611.9	1490.6	1461.7	1559.9	1475.2
75°	1870.0	1575.3	1384.6	1299.9	1288.4	1276.8
77.5°	1685.1	1554.1	1261.4	1128.5	1105.4	1113.1
80°	1409.7	1475.2	1113.1	955.2	1080.4	1066.9
82.5°	1053.4	1301.8	945.6	845.4	843.5	745.3
85°	585.4	1014.9	770.3	633.6	441.0	427.5
87.5°	163.7	564.3	539.2	358.2	244.6	254.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)