

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: P193161

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193161
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-03-LED-E1-T2R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 20087.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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



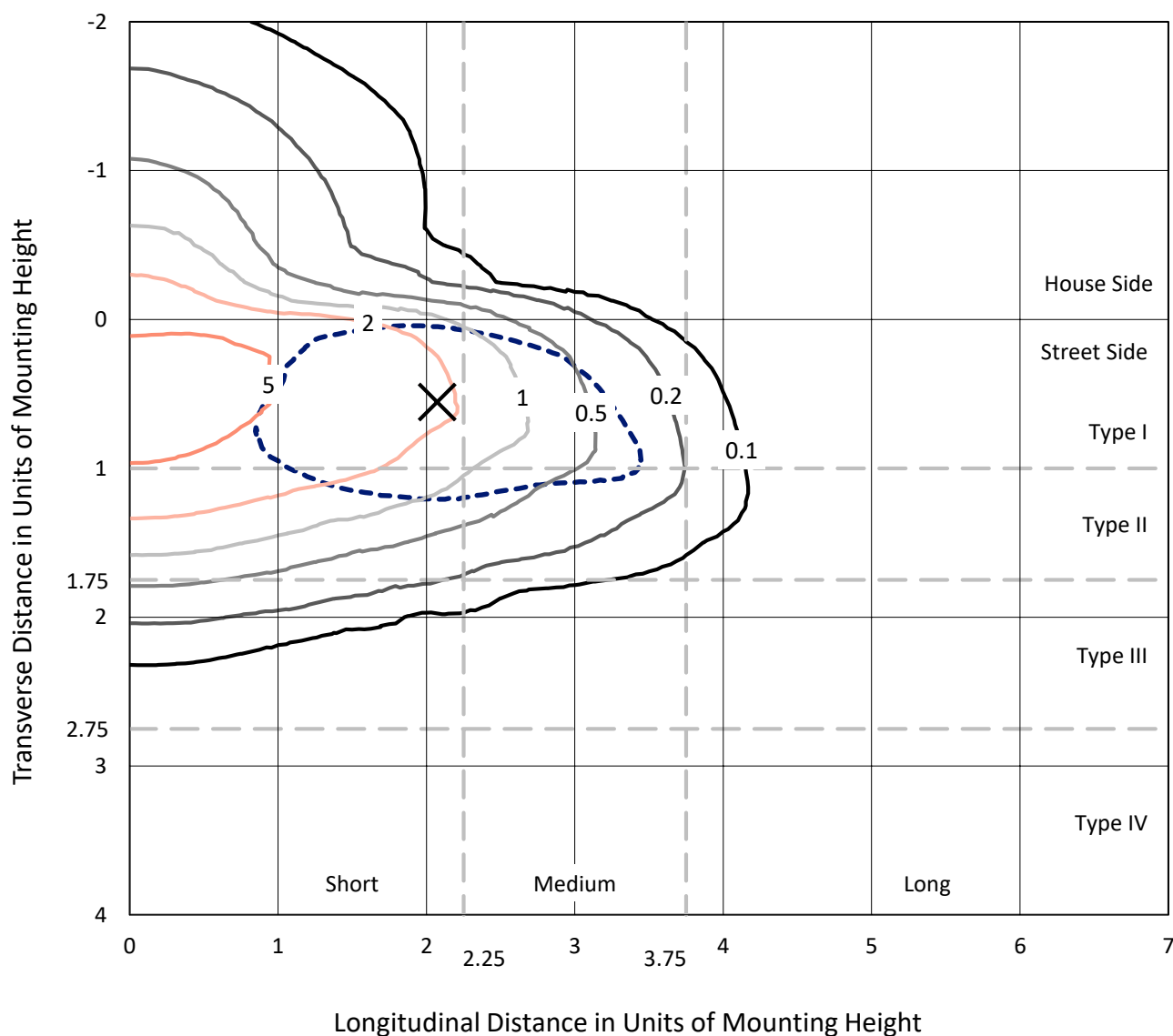
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

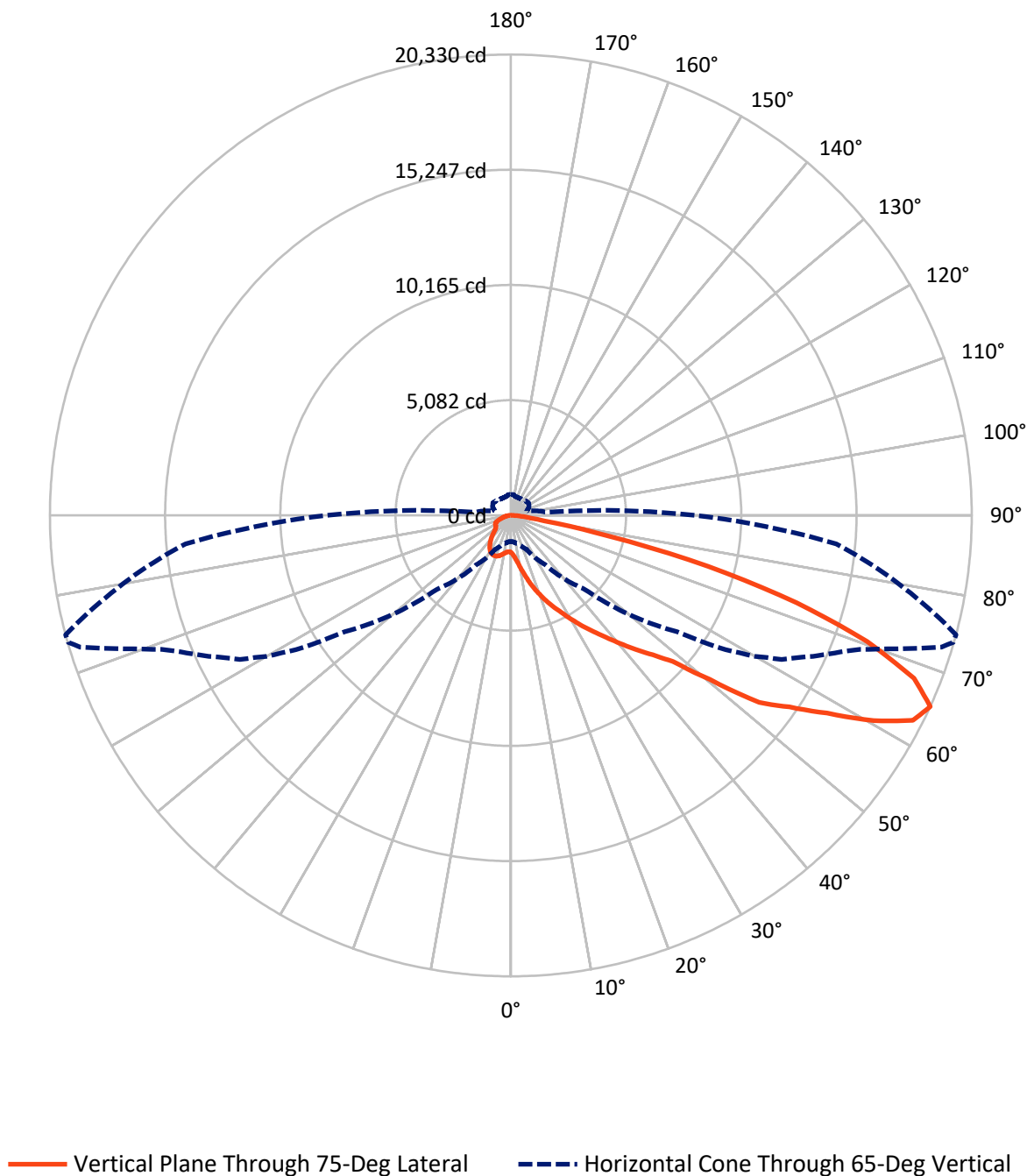


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3097.0	0.0	3097.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16990.3	0.0	16990.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	20087.3	0.0	20087.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.0
10°-20°	788.4	3.9
20°-30°	1617.5	8.1
30°-40°	2721.4	13.5
40°-50°	3760.2	18.7
50°-60°	4693.9	23.4
60°-70°	4224.0	21.0
70°-80°	1770.7	8.8
80°-90°	309.3	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°	20087.3	100.0
0°-180°	20087.3	100.0

Coefficient of Utilization



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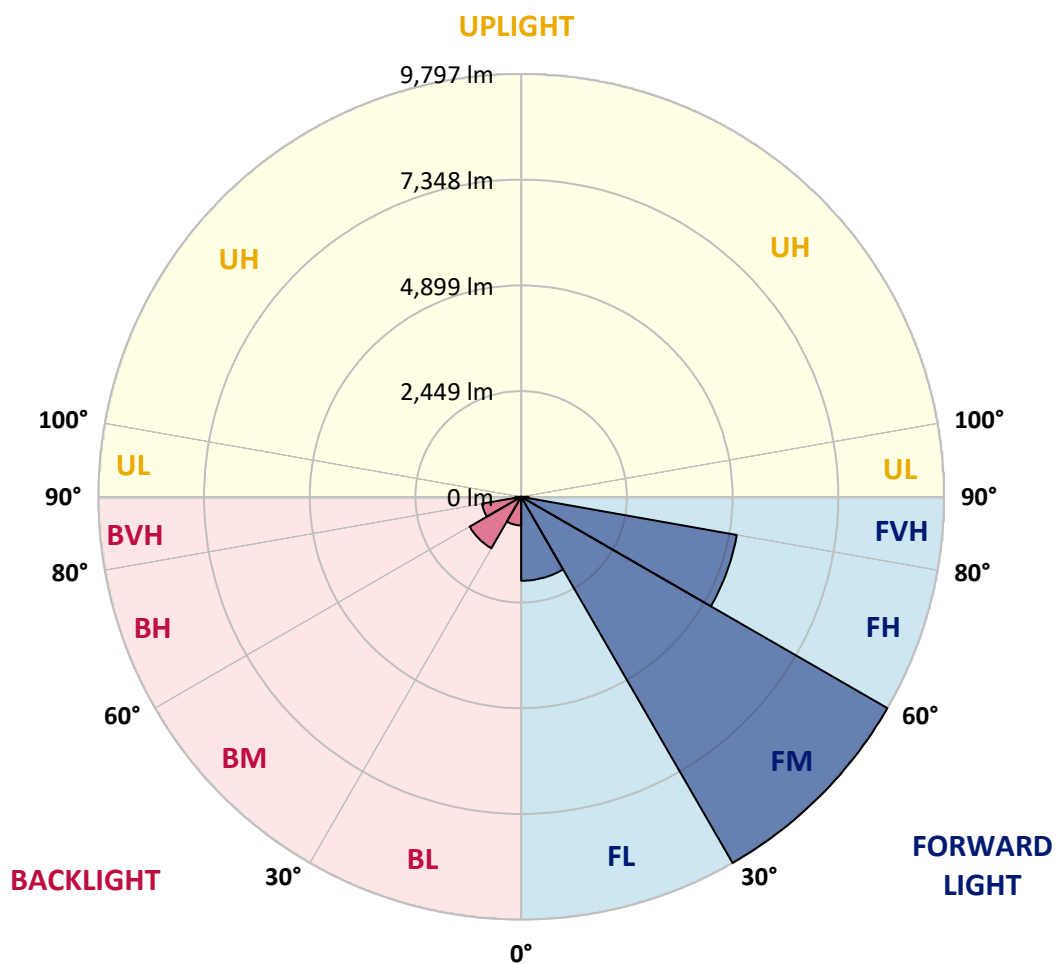
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1945.4	9.7			
FM	(30°-60°)	9797.1	48.8			
FH	(60°-80°)	5074.0	25.3			G3/7500
FVH	(80°-90°)	173.9	0.9			G2/225
BL	(0°-30°)	662.3	3.3	B2/1000		
BM	(30°-60°)	1378.5	6.9	B2/2500		
BH	(60°-80°)	920.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	135.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	2072.6	2049.9	2055.6	2017.6	1970.9	1910.1	1842.5	1841.7	1842.5	1836.0	1811.2
5°	2874.2	2846.6	2836.2	2750.6	2625.1	2446.4	2252.4	2231.5	2222.9	2201.0	2150.7
7.5°	3458.9	3443.8	3427.6	3362.9	3248.9	3049.1	2788.7	2743.9	2701.1	2690.7	2633.7
10°	3836.4	3832.6	3798.3	3781.3	3709.9	3536.8	3283.0	3240.2	3193.6	3177.5	3117.6
12.5°	4134.9	4134.0	4117.8	4122.6	4060.7	3935.3	3716.6	3677.5	3643.4	3594.0	3551.2
15°	4341.2	4342.2	4366.0	4392.6	4383.1	4298.5	4093.1	4075.9	4046.5	4012.2	3961.8
17.5°	4510.4	4515.2	4539.9	4588.5	4640.7	4634.1	4471.4	4457.2	4431.5	4385.0	4358.4
20°	4892.6	4910.7	4863.2	4863.2	4868.9	4894.6	4816.5	4805.2	4769.0	4744.4	4723.5
22.5°	5538.3	5559.2	5451.7	5342.4	5234.9	5157.0	5079.0	5093.3	5068.5	5051.5	5039.1
25°	6376.8	6393.0	6219.0	6034.6	5815.9	5530.7	5337.7	5329.1	5315.8	5305.3	5299.6
27.5°	7166.0	7172.7	7008.1	6738.1	6484.3	6074.5	5600.1	5589.6	5573.5	5553.4	5536.3
30°	7841.0	7839.2	7669.9	7412.2	7140.3	6686.7	5998.5	5966.1	5918.6	5864.4	5822.5
32.5°	8425.7	8422.9	8237.5	7970.4	7685.1	7293.4	6544.2	6477.7	6403.4	6297.9	6234.3
35°	8885.9	8884.0	8709.0	8430.6	8103.4	7864.8	7169.8	7087.9	6993.9	6852.2	6754.3
37.5°	9059.9	9059.9	8962.0	8771.9	8482.8	8319.2	7864.8	7765.9	7665.2	7504.5	7394.1
40°	8958.1	8960.2	8981.0	8945.8	8805.1	8679.7	8513.3	8454.3	8367.7	8223.3	8108.2
42.5°	8616.8	8627.3	8766.1	8936.4	9006.7	8986.7	9088.4	9061.9	9001.0	8889.8	8798.4
45°	8184.3	8216.7	8368.7	8690.1	9062.7	9252.0	9570.4	9573.3	9562.0	9502.1	9431.7
47.5°	7590.0	7635.7	7836.3	8270.8	8931.6	9509.6	10060.1	10085.8	10109.5	10070.7	10038.3
50°	6800.9	6855.0	7155.5	7731.7	8664.4	9776.8	10985.3	11101.3	11209.7	11196.4	11218.2
52.5°	5955.6	6019.3	6387.3	7029.0	8205.2	9838.6	11576.7	11765.8	11955.0	12110.0	12274.5
55°	5193.1	5158.9	5526.9	6202.8	7450.3	9560.0	12108.1	12336.3	12547.4	12737.6	12933.3
57.5°	4159.6	4215.8	4584.6	5253.0	6451.0	8773.7	12474.1	12807.9	13111.2	13425.9	13703.6
60°	3040.5	3096.6	3497.0	4175.8	5366.2	7581.5	12194.7	12700.4	13186.3	13668.4	14044.8
62.5°	1836.0	1877.7	2230.5	2877.1	4137.7	6167.6	10949.1	11612.7	12327.7	12903.9	13481.1
65°	1142.9	1166.6	1296.9	1652.4	2657.4	4604.6	8945.8	9669.3	10439.5	11170.6	11770.6
67.5°	935.6	944.1	967.9	1044.0	1459.4	3002.6	6658.3	7299.1	7994.1	8701.5	9368.9
70°	841.4	835.8	835.8	840.5	935.6	1614.5	4359.3	4776.7	5355.7	5970.9	6581.2
72.5°	759.7	754.0	743.5	729.2	763.5	985.0	2253.4	2568.0	2985.4	3532.2	4116.9
75°	682.7	675.0	662.6	644.6	668.4	743.5	1082.0	1214.1	1417.6	1708.5	2034.6
77.5°	602.8	593.3	582.0	568.5	599.0	578.1	634.1	681.7	759.7	852.9	975.4
80°	512.4	503.9	500.1	493.5	529.6	440.2	447.9	477.3	523.0	573.3	630.3
82.5°	401.2	401.2	416.4	419.3	459.2	316.7	334.7	360.3	384.1	410.7	437.4
85°	264.3	266.3	317.5	337.5	362.2	212.9	251.0	259.6	278.6	293.8	305.2
87.5°	82.7	89.4	193.9	214.9	208.2	120.7	154.0	157.9	171.1	181.6	191.1
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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1811.2	1799.8	1789.3	1788.3	1780.8	1770.3	1774.2	1758.0	1759.0	1750.4	1740.8
5°	2129.7	2122.2	2084.1	2073.6	2045.2	2027.1	2024.2	1986.2	1981.4	1959.6	1935.7
7.5°	2588.1	2563.3	2510.0	2484.3	2435.9	2399.8	2382.6	2332.2	2307.5	2250.5	2224.8
10°	3068.1	3036.8	2971.2	2935.0	2888.5	2830.5	2799.1	2725.9	2697.4	2645.0	2582.4
12.5°	3513.1	3481.8	3414.3	3386.7	3324.9	3263.0	3228.8	3146.1	3109.1	3025.4	2975.9
15°	3924.8	3893.5	3834.5	3805.9	3744.1	3693.7	3648.1	3566.3	3522.6	3444.6	3380.1
17.5°	4324.2	4290.8	4239.5	4213.8	4153.9	4102.5	4053.2	3976.2	3931.4	3853.5	3795.4
20°	4694.9	4670.2	4633.1	4598.9	4538.9	4492.4	4433.4	4366.9	4302.3	4245.2	4190.1
22.5°	5018.2	5008.7	4968.8	4953.5	4902.1	4862.2	4810.9	4745.3	4698.7	4626.5	4575.1
25°	5296.8	5293.9	5274.9	5270.1	5233.9	5196.0	5184.6	5130.4	5087.5	5023.8	4970.6
27.5°	5536.3	5539.2	5534.4	5547.7	5538.3	5521.1	5522.1	5504.1	5479.4	5426.1	5379.5
30°	5802.5	5787.4	5795.8	5814.9	5820.7	5822.5	5853.9	5864.4	5862.6	5827.4	5804.5
32.5°	6179.0	6143.0	6109.7	6106.8	6125.8	6133.5	6186.7	6214.2	6238.0	6246.6	6250.4
35°	6659.3	6586.9	6517.6	6480.5	6448.2	6456.6	6494.7	6539.3	6591.7	6627.8	6670.6
37.5°	7263.9	7175.5	7052.8	6965.4	6943.5	6896.0	6920.7	6955.9	7007.3	7063.3	7137.5
40°	7996.9	7863.0	7725.0	7609.1	7546.3	7458.8	7457.8	7451.3	7482.6	7534.8	7639.5
42.5°	8702.4	8583.6	8437.2	8315.5	8233.7	8116.8	8093.0	8031.2	8045.5	8091.0	8192.8
45°	9363.2	9265.3	9175.9	9035.2	8965.9	8839.3	8799.4	8726.2	8685.3	8706.3	8807.9
47.5°	10003.1	9940.3	9847.2	9755.9	9702.7	9589.4	9538.2	9485.9	9433.6	9431.7	9538.2
50°	11250.5	11217.2	11107.0	11011.9	11037.5	10898.7	10907.3	10766.5	10830.3	10837.9	11061.3
52.5°	12422.8	12538.8	12620.5	12720.4	12785.1	12797.4	12840.1	12903.9	12980.9	13133.1	13340.3
55°	13094.0	13239.5	13324.1	13400.2	13525.7	13552.3	13623.6	13708.2	13775.7	13947.0	14122.8
57.5°	13891.8	14161.7	14293.0	14413.7	14583.0	14647.7	14766.5	14858.7	14946.1	15148.7	15361.7
60°	14383.3	14712.3	14979.5	15170.5	15382.6	15534.7	15714.4	15858.9	16064.3	16306.7	16624.3
62.5°	13992.5	14475.5	14830.2	15158.2	15446.3	15737.1	15994.9	16264.9	16576.7	16943.7	17436.2
65°	12436.1	12927.7	13535.2	13875.6	14256.8	14705.6	15097.3	15534.7	15959.7	16494.0	17222.3
67.5°	10011.7	10583.1	11265.7	11608.9	12047.3	12548.3	12987.5	13521.9	14018.2	14665.7	15566.0
70°	7216.3	7955.1	8529.5	8887.8	9399.3	9915.6	10339.6	10961.4	11372.2	12035.9	12966.7
72.5°	4569.4	5152.2	5855.9	6307.4	6761.9	7284.9	7718.4	8254.6	8637.8	9242.5	10085.8
75°	2456.8	2886.5	3504.6	3933.4	4420.2	4867.1	5374.7	5734.2	6017.5	6495.7	7180.2
77.5°	1151.4	1412.8	1725.6	2055.6	2385.4	2729.7	3064.4	3355.3	3476.9	3750.8	4154.9
80°	698.8	783.4	874.7	976.4	1114.3	1225.6	1373.0	1479.4	1487.0	1573.6	1697.2
82.5°	466.9	498.2	525.7	551.4	586.6	614.1	645.6	682.7	697.8	717.9	757.7
85°	318.5	333.7	339.5	355.6	351.9	361.3	373.6	386.0	392.7	391.7	409.8
87.5°	195.9	203.4	207.3	211.1	208.2	204.5	210.1	216.8	218.6	212.9	214.9
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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1742.8	1734.2	1725.6	1720.0	1718.1	1667.7	1645.8	1631.6	1601.0	1576.4	1556.4
5°	1922.4	1904.4	1890.1	1873.0	1863.5	1736.1	1689.4	1657.3	1603.9	1572.6	1544.1
7.5°	2211.5	2161.1	2131.6	2098.4	2069.8	1839.7	1762.8	1712.3	1638.3	1596.4	1564.0
10°	2539.5	2487.2	2440.7	2389.3	2344.6	1977.6	1865.4	1787.5	1689.4	1635.3	1592.6
12.5°	2905.5	2854.2	2795.3	2729.7	2672.6	2152.5	1996.6	1885.4	1751.3	1679.1	1619.2
15°	3338.2	3247.8	3176.5	3100.4	3033.9	2361.7	2149.6	1995.6	1817.0	1718.9	1639.1
17.5°	3740.4	3645.2	3548.3	3481.8	3404.7	2596.5	2303.7	2107.8	1871.2	1744.7	1642.9
20°	4133.1	4029.4	3945.7	3856.3	3775.6	2839.9	2468.1	2206.7	1906.3	1745.6	1619.2
22.5°	4479.1	4414.4	4321.3	4224.3	4142.6	3083.4	2622.2	2290.4	1919.5	1723.8	1577.3
25°	4872.8	4804.2	4690.2	4608.4	4517.1	3331.6	2773.4	2355.1	1912.0	1682.9	1512.7
27.5°	5292.9	5216.9	5100.0	5014.4	4904.1	3589.1	2912.2	2401.6	1883.5	1616.3	1426.2
30°	5731.3	5661.9	5546.8	5460.3	5349.0	3862.1	3067.2	2432.9	1826.5	1524.0	1325.5
32.5°	6201.9	6143.8	6029.8	5939.5	5820.7	4157.8	3211.6	2442.5	1740.0	1414.8	1218.9
35°	6648.8	6608.9	6512.8	6428.2	6304.6	4437.2	3364.7	2437.8	1637.2	1294.9	1121.9
37.5°	7151.7	7128.0	7080.4	6972.9	6821.8	4816.5	3548.3	2417.8	1511.7	1176.0	1047.8
40°	7687.9	7689.8	7638.6	7565.3	7424.6	5276.7	3766.9	2378.8	1374.8	1071.5	980.3
42.5°	8255.5	8285.0	8260.3	8208.0	8073.0	5740.8	4028.4	2331.3	1241.7	969.7	913.7
45°	8905.9	8942.0	8980.0	8903.1	8771.9	6353.1	4372.5	2269.6	1098.2	885.2	868.1
47.5°	9656.0	9713.1	9747.3	9748.3	9617.1	7111.8	4931.6	2232.3	970.8	828.0	846.2
50°	11239.1	11257.2	11338.0	11478.7	11377.9	8867.9	5908.0	2209.5	884.2	792.9	830.1
52.5°	13520.0	13718.7	13858.5	13848.9	13712.0	9983.1	6446.3	2091.7	832.9	779.7	822.4
55°	14448.9	14697.0	14955.6	15024.1	14917.6	10934.8	6954.9	1973.8	808.2	789.2	825.2
57.5°	15686.8	16105.2	16459.8	16609.0	16455.0	12152.8	7624.2	1912.0	800.6	814.8	843.4
60°	17133.0	17650.2	18116.1	18384.2	18384.2	13552.3	8318.4	1886.4	790.1	852.9	873.7
62.5°	18061.8	18821.5	19525.0	19917.8	19906.4	14526.9	8626.3	1798.9	766.4	879.4	915.6
65°	18065.7	18968.9	19865.5	20306.6	20329.5	14407.0	8117.8	1588.7	722.6	883.3	957.4
67.5°	16559.7	17522.8	18567.6	19061.2	19175.2	13262.3	7027.1	1306.4	651.3	845.2	972.6
70°	13985.8	14926.2	15993.0	16477.8	16680.4	11305.6	5659.9	1006.9	560.0	761.5	941.3
72.5°	11018.5	11940.7	12683.4	13037.9	13195.8	8641.6	4121.6	760.7	459.2	641.8	856.6
75°	7801.1	8493.3	8887.8	8966.8	8991.5	5209.3	2504.3	565.8	378.4	499.2	723.6
77.5°	4403.0	4699.7	4667.3	4702.5	4409.7	2010.9	1090.5	405.1	311.8	379.3	560.9
80°	1718.9	1772.3	1664.8	1631.6	1496.6	748.2	481.1	282.3	249.1	287.2	392.7
82.5°	757.7	782.6	759.7	765.4	732.1	386.0	288.1	204.5	190.1	210.1	260.5
85°	417.4	425.0	423.1	435.5	417.4	154.0	136.9	125.5	133.1	142.6	167.3
87.5°	203.4	205.4	198.8	209.1	202.5	78.0	67.5	71.3	78.0	79.9	79.9
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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1542.2	1534.5	1535.5	1533.6	1529.8	1529.8
5°	1528.9	1521.2	1521.2	1519.4	1514.6	1515.5
7.5°	1542.2	1529.8	1525.0	1518.3	1511.7	1511.7
10°	1557.4	1535.5	1522.2	1510.7	1502.2	1502.2
12.5°	1568.8	1534.5	1512.7	1497.5	1488.8	1488.8
15°	1572.6	1527.9	1497.5	1479.4	1471.8	1470.8
17.5°	1560.2	1502.2	1465.1	1444.2	1434.7	1431.9
20°	1522.2	1455.7	1411.0	1387.1	1373.8	1369.1
22.5°	1465.1	1389.1	1336.8	1312.1	1294.9	1292.1
25°	1385.3	1303.5	1252.2	1228.4	1218.9	1216.0
27.5°	1292.1	1216.0	1172.4	1157.0	1148.6	1147.5
30°	1203.7	1139.0	1106.7	1095.4	1084.8	1083.0
32.5°	1121.0	1080.0	1067.7	1051.5	1026.8	1024.0
35°	1062.0	1058.1	1049.7	1013.5	983.2	974.6
37.5°	1025.8	1061.0	1017.3	945.9	924.2	922.2
40°	1004.9	1031.6	956.4	931.8	933.6	931.8
42.5°	957.4	985.0	958.4	947.0	954.6	956.4
45°	909.9	940.2	972.6	965.1	983.2	983.2
47.5°	883.3	928.9	971.7	971.7	998.3	1007.8
50°	852.9	919.4	956.4	969.7	990.7	983.2
52.5°	850.9	903.2	934.6	958.4	967.9	959.3
55°	853.8	889.9	912.8	939.4	950.8	951.7
57.5°	857.5	882.3	897.6	909.9	944.1	944.1
60°	867.1	875.7	884.2	890.9	935.6	936.5
62.5°	882.3	869.0	867.1	873.7	930.8	926.9
65°	906.1	859.6	845.2	851.9	926.1	914.6
67.5°	938.4	845.2	817.7	822.4	922.2	897.6
70°	967.9	822.4	783.4	778.7	886.1	842.4
72.5°	970.8	795.9	735.9	721.6	770.2	728.3
75°	923.2	777.7	683.6	641.8	636.1	630.3
77.5°	831.9	767.3	622.8	557.1	545.8	549.6
80°	696.0	728.3	549.6	471.6	533.4	526.7
82.5°	520.1	642.8	466.9	417.4	416.4	367.9
85°	289.0	501.1	380.3	312.8	217.8	211.1
87.5°	80.9	278.6	266.3	176.9	120.7	125.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)