

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: P193132

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193132
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-04-LED-E1-T2R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15940.9 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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



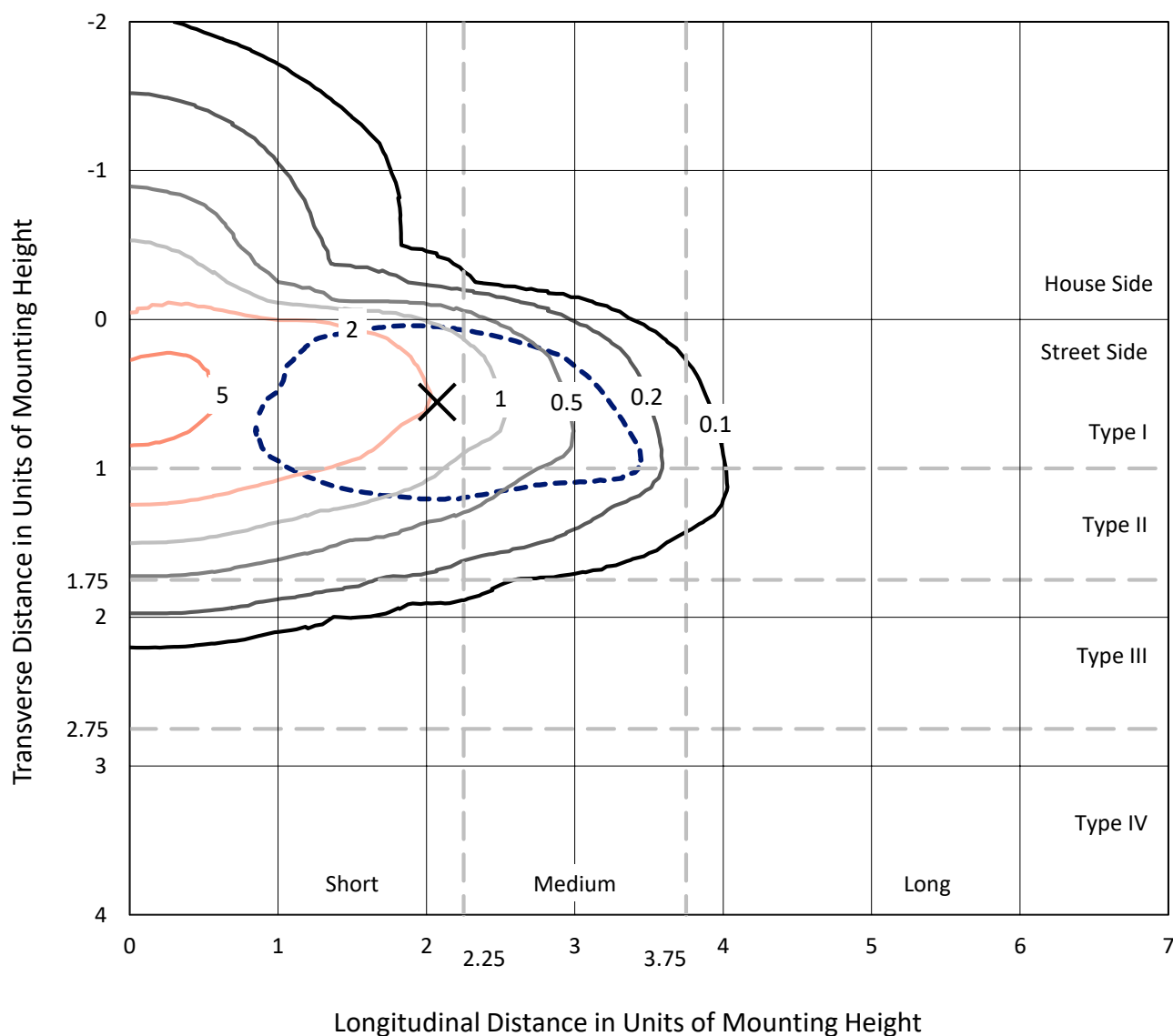
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

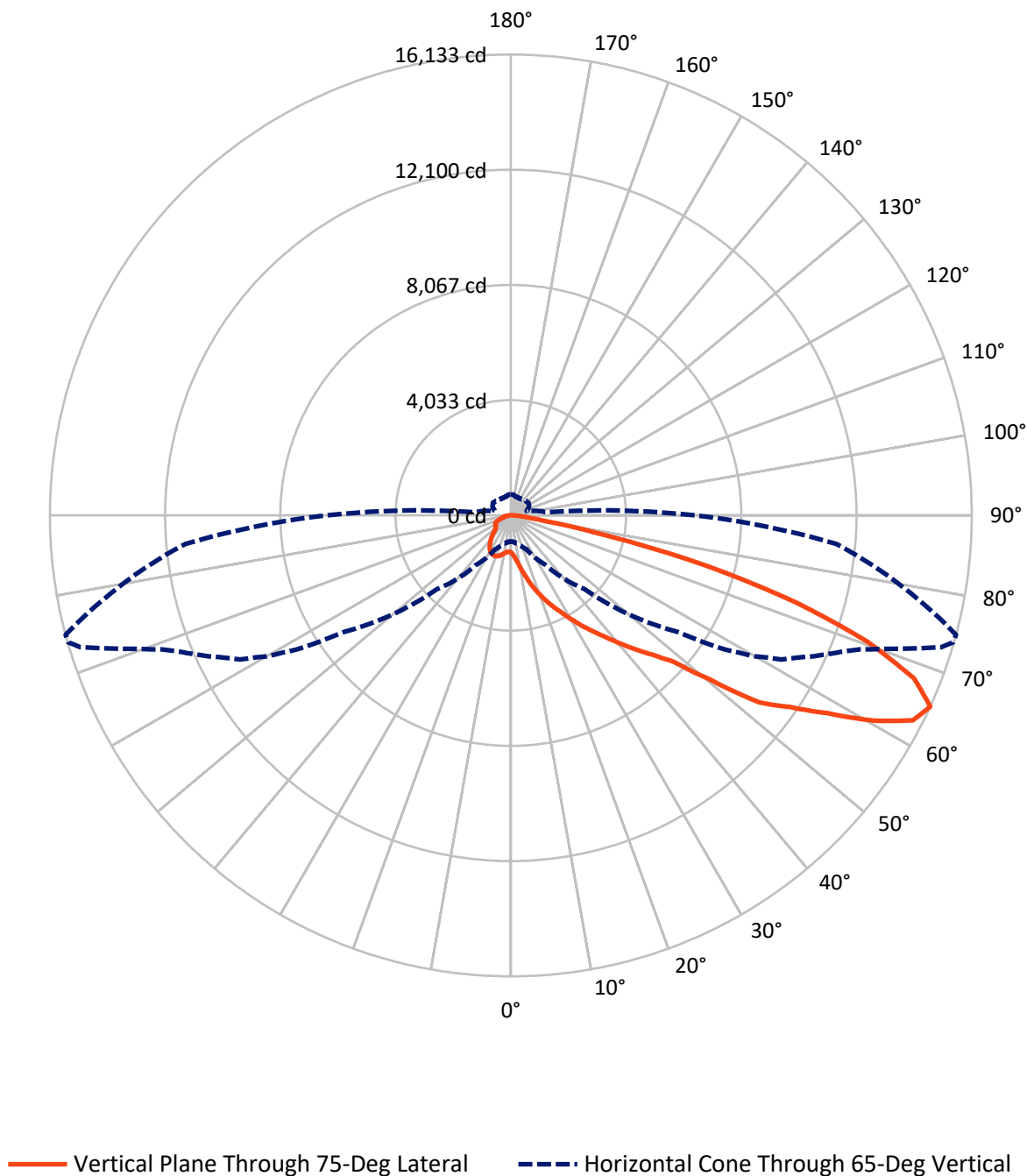


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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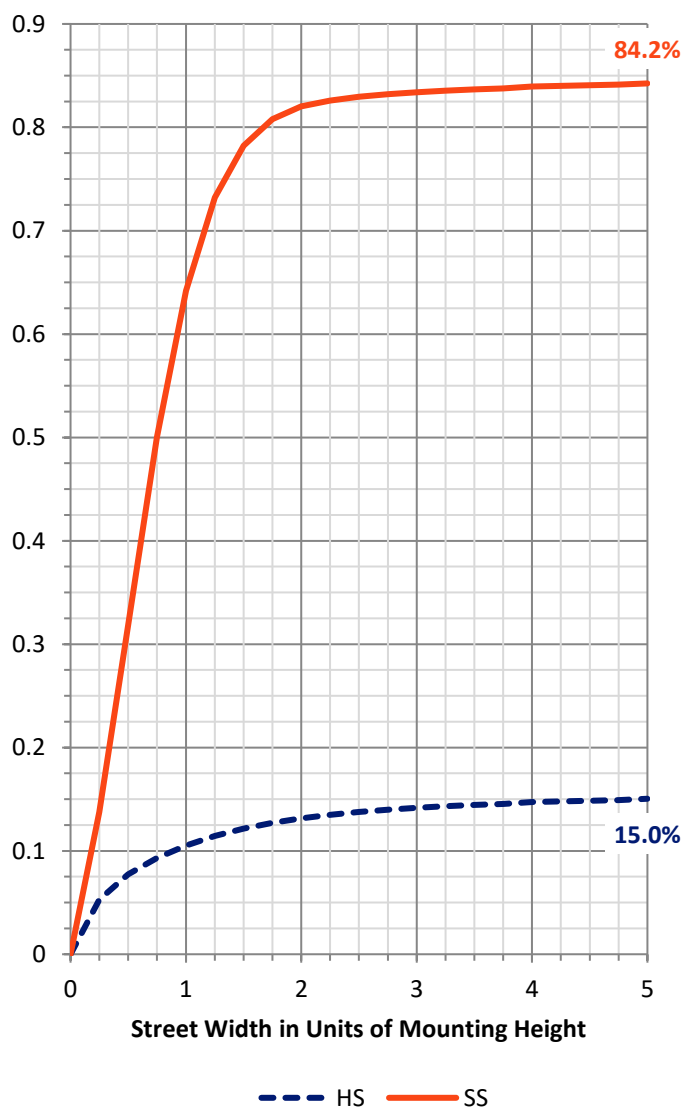
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2457.7	0.0	2457.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	13483.2	0.0	13483.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	15940.9	0.0	15940.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.0
10°-20°	625.7	3.9
20°-30°	1283.6	8.1
30°-40°	2159.7	13.5
40°-50°	2984.1	18.7
50°-60°	3725.0	23.4
60°-70°	3352.1	21.0
70°-80°	1405.2	8.8
80°-90°	245.5	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°	15940.9	100.0
0°-180°	15940.9	100.0

Coefficient of Utilization



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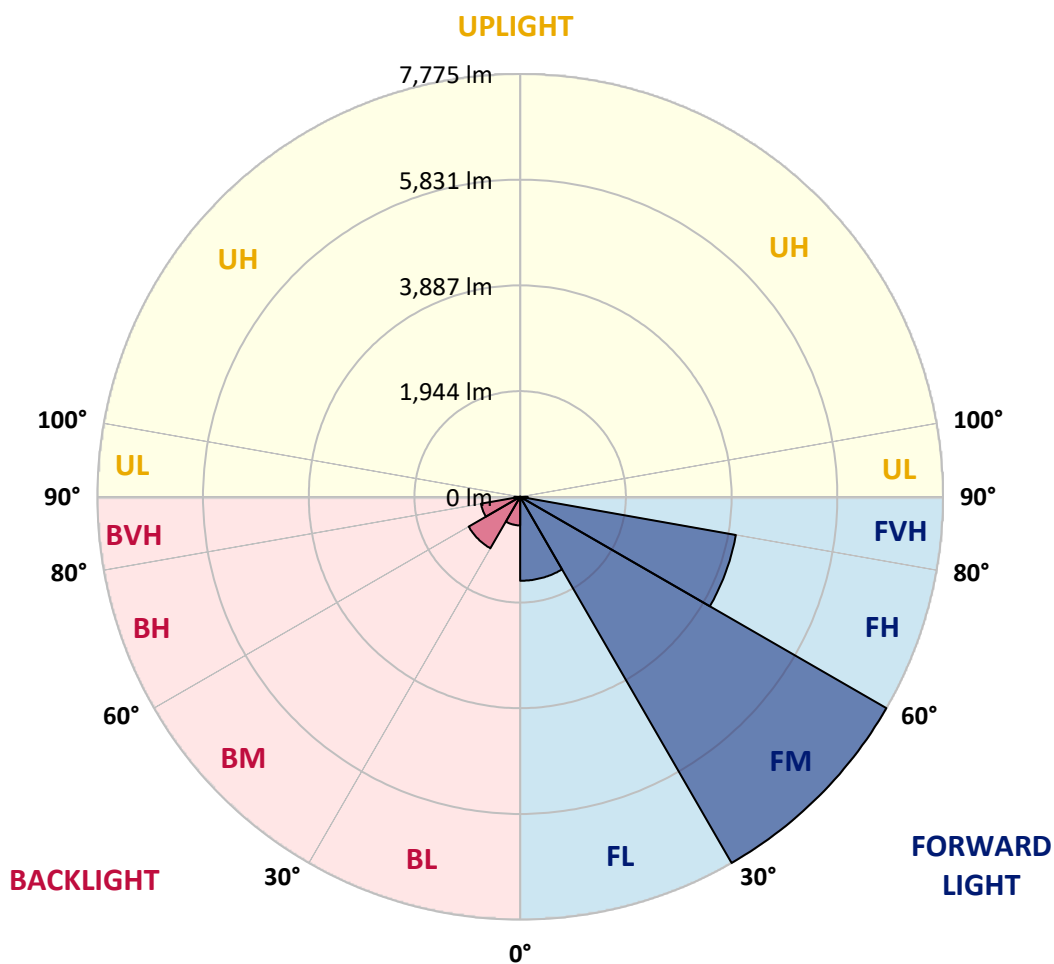
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.8	9.7			
FM	(30°-60°)	7774.8	48.8			
FH	(60°-80°)	4026.6	25.3			G2/5000
FVH	(80°-90°)	138.0	0.9			G2/225
BL	(0°-30°)	525.6	3.3	B2/1000		
BM	(30°-60°)	1094.0	6.9	B2/2500		
BH	(60°-80°)	730.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	107.5	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1644.9	1626.8	1631.2	1601.0	1564.1	1515.9	1462.2	1461.5	1462.2	1457.0	1437.3
5°	2280.9	2259.1	2250.7	2182.8	2083.2	1941.3	1787.5	1770.9	1764.1	1746.7	1706.7
7.5°	2744.9	2732.9	2720.0	2668.7	2578.2	2419.8	2213.0	2177.5	2143.5	2135.3	2090.0
10°	3044.5	3041.4	3014.3	3000.7	2944.1	2806.8	2605.4	2571.4	2534.4	2521.6	2474.0
12.5°	3281.4	3280.6	3267.8	3271.5	3222.5	3122.9	2949.5	2918.5	2891.3	2852.1	2818.2
15°	3445.2	3445.9	3464.7	3485.9	3478.3	3411.2	3248.2	3234.6	3211.2	3184.1	3144.1
17.5°	3579.5	3583.1	3602.9	3641.3	3682.8	3677.5	3548.5	3537.2	3516.8	3479.8	3458.7
20°	3882.7	3897.1	3859.4	3859.4	3863.9	3884.2	3822.4	3813.3	3784.6	3765.1	3748.4
22.5°	4395.1	4411.7	4326.4	4239.6	4154.4	4092.6	4030.6	4041.9	4022.4	4008.7	3998.9
25°	5060.6	5073.4	4935.2	4789.0	4615.3	4389.1	4235.9	4229.1	4218.5	4210.2	4205.7
27.5°	5686.8	5692.1	5561.6	5347.2	5145.8	4820.6	4444.1	4435.8	4423.0	4407.1	4393.6
30°	6222.6	6221.0	6086.8	5882.2	5666.4	5306.5	4760.2	4734.6	4696.8	4653.9	4620.7
32.5°	6686.5	6684.3	6537.1	6325.1	6098.8	5787.9	5193.3	5140.5	5081.6	4997.9	4947.4
35°	7051.7	7050.2	6911.4	6690.3	6430.8	6241.3	5689.7	5624.8	5550.3	5437.9	5360.0
37.5°	7189.8	7189.8	7112.1	6961.1	6731.8	6602.0	6241.3	6162.9	6082.9	5955.4	5867.9
40°	7109.1	7110.6	7127.2	7099.2	6987.5	6888.0	6755.9	6709.2	6640.4	6525.8	6434.5
42.5°	6838.2	6846.5	6956.6	7091.7	7147.5	7131.7	7212.4	7191.3	7143.1	7054.8	6982.3
45°	6494.9	6520.5	6641.3	6896.3	7192.1	7342.2	7594.9	7597.3	7588.2	7540.6	7484.8
47.5°	6023.4	6059.5	6218.7	6563.5	7087.9	7546.6	7983.6	8003.9	8022.8	7991.9	7966.2
50°	5397.1	5440.0	5678.5	6135.8	6875.9	7758.7	8717.7	8809.7	8895.8	8885.2	8902.6
52.5°	4726.3	4776.9	5068.9	5578.1	6511.6	7807.7	9186.9	9337.2	9487.3	9610.2	9740.8
55°	4121.2	4094.1	4386.0	4922.4	5912.3	7586.6	9608.8	9789.8	9957.4	10108.2	10263.7
57.5°	3301.0	3345.5	3638.4	4168.7	5119.4	6962.6	9899.2	10164.1	10404.8	10654.5	10874.9
60°	2413.0	2457.5	2775.0	3313.9	4258.5	6016.5	9677.4	10078.8	10464.5	10846.9	11145.7
62.5°	1457.0	1490.2	1770.1	2283.2	3283.7	4894.6	8689.1	9215.7	9783.1	10240.4	10698.3
65°	907.0	925.8	1029.1	1311.3	2108.9	3654.1	7099.2	7673.4	8284.6	8864.9	9340.9
67.5°	742.4	749.2	768.1	828.5	1158.1	2382.7	5283.9	5792.4	6344.0	6905.3	7435.0
70°	667.8	663.2	663.2	667.0	742.4	1281.2	3459.4	3790.6	4250.1	4738.3	5222.8
72.5°	602.9	598.3	590.0	578.7	605.9	781.6	1788.2	2037.9	2369.2	2803.0	3267.1
75°	541.7	535.7	525.9	511.6	530.5	590.0	858.7	963.5	1125.0	1355.9	1614.7
77.5°	478.3	470.8	461.7	451.2	475.4	458.8	503.2	541.0	602.9	676.8	774.1
80°	406.7	399.9	396.8	391.5	420.3	349.3	355.4	378.8	414.9	454.9	500.3
82.5°	318.4	318.4	330.5	332.7	364.4	251.3	265.6	285.9	304.9	325.9	347.1
85°	209.8	211.3	252.1	267.9	287.5	169.1	199.2	206.0	221.0	233.2	242.2
87.5°	65.7	70.9	153.9	170.6	165.2	95.8	122.3	125.2	135.8	144.1	151.7
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°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1437.3	1428.3	1420.1	1419.3	1413.2	1404.8	1408.0	1395.1	1395.9	1389.0	1381.5
5°	1690.1	1684.1	1653.8	1645.6	1622.9	1608.7	1606.3	1576.2	1572.5	1555.1	1536.1
7.5°	2053.7	2034.2	1991.9	1971.6	1933.2	1904.4	1890.8	1850.9	1831.1	1786.0	1765.5
10°	2434.9	2409.9	2357.9	2329.2	2292.3	2246.2	2221.3	2163.3	2140.6	2099.1	2049.2
12.5°	2788.0	2763.0	2709.5	2687.6	2638.5	2589.6	2562.3	2496.7	2467.3	2400.9	2361.6
15°	3114.7	3089.8	3043.0	3020.4	2971.3	2931.3	2895.1	2830.2	2795.5	2733.6	2682.4
17.5°	3431.5	3405.2	3364.4	3344.0	3296.5	3255.7	3216.5	3155.4	3119.9	3058.0	3012.1
20°	3725.8	3706.2	3676.8	3649.6	3602.1	3565.1	3518.2	3465.4	3414.3	3368.9	3325.2
22.5°	3982.4	3974.8	3943.0	3931.0	3890.2	3858.6	3817.8	3765.8	3728.8	3671.4	3630.6
25°	4203.4	4201.1	4186.0	4182.3	4153.6	4123.5	4114.3	4071.3	4037.4	3986.9	3944.6
27.5°	4393.6	4395.8	4392.0	4402.6	4395.1	4381.6	4382.3	4367.8	4348.3	4306.0	4269.1
30°	4604.8	4592.7	4599.5	4614.7	4619.2	4620.7	4645.6	4653.9	4652.4	4624.4	4606.4
32.5°	4903.5	4874.9	4848.5	4846.3	4861.4	4867.4	4909.7	4931.5	4950.4	4957.2	4960.2
35°	5284.7	5227.3	5172.3	5142.9	5117.1	5123.9	5154.1	5189.6	5231.2	5259.7	5293.7
37.5°	5764.5	5694.4	5597.1	5527.5	5510.3	5472.5	5492.1	5520.0	5560.8	5605.3	5664.1
40°	6346.3	6239.9	6130.4	6038.4	5988.6	5919.2	5918.5	5913.1	5938.0	5979.5	6062.6
42.5°	6906.1	6811.8	6695.6	6599.0	6534.1	6441.3	6422.5	6373.4	6384.7	6420.9	6501.7
45°	7430.5	7352.7	7281.8	7170.1	7115.1	7014.8	6983.1	6925.0	6892.5	6909.1	6989.9
47.5°	7938.2	7888.5	7814.6	7742.1	7699.8	7610.0	7569.3	7527.9	7486.3	7484.8	7569.3
50°	8928.2	8901.8	8814.3	8738.8	8759.2	8649.1	8655.8	8544.2	8594.7	8600.8	8778.0
52.5°	9858.5	9950.6	10015.5	10094.7	10146.1	10155.7	10189.7	10240.4	10301.4	10422.1	10586.6
55°	10391.2	10506.7	10573.8	10634.2	10733.7	10754.9	10811.4	10878.6	10932.2	11068.0	11207.6
57.5°	11024.3	11238.5	11342.6	11438.5	11572.7	11624.1	11718.4	11791.6	11860.9	12021.7	12190.7
60°	11414.4	11675.5	11887.4	12039.1	12207.3	12328.0	12470.7	12585.3	12748.3	12940.6	13192.7
62.5°	11104.2	11487.5	11769.0	12029.2	12257.9	12488.8	12693.2	12907.6	13155.1	13446.2	13837.0
65°	9869.1	10259.1	10741.3	11011.3	11314.1	11670.1	11981.0	12328.0	12665.4	13089.4	13667.4
67.5°	7945.2	8398.5	8940.2	9212.6	9560.5	9958.1	10306.7	10730.8	11124.6	11638.4	12353.0
70°	5726.9	6313.0	6768.7	7053.2	7459.1	7868.9	8205.4	8698.7	9024.9	9551.5	10290.1
72.5°	3626.2	4088.7	4647.1	5005.5	5366.2	5781.1	6125.2	6550.7	6854.8	7334.7	8003.9
75°	1949.6	2290.7	2781.2	3121.4	3507.8	3862.5	4265.3	4550.5	4775.2	5154.9	5698.1
77.5°	913.7	1121.2	1369.4	1631.2	1893.1	2166.2	2431.8	2662.6	2759.3	2976.5	3297.2
80°	554.6	621.6	694.2	774.8	884.4	972.6	1089.6	1174.0	1180.1	1248.8	1346.8
82.5°	370.5	395.4	417.3	437.6	465.6	487.4	512.3	541.7	553.8	569.7	601.4
85°	252.7	264.9	269.4	282.2	279.1	286.7	296.5	306.4	311.6	310.9	325.1
87.5°	155.4	161.4	164.4	167.5	165.2	162.2	166.7	172.1	173.5	169.1	170.6
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1383.0	1376.2	1369.4	1364.8	1363.4	1323.4	1306.0	1294.7	1270.5	1251.0	1235.1
5°	1525.6	1511.3	1500.0	1486.4	1478.9	1377.8	1340.8	1315.2	1272.9	1248.0	1225.4
7.5°	1755.0	1715.1	1691.7	1665.2	1642.6	1460.0	1398.8	1358.8	1300.0	1266.9	1241.1
10°	2015.3	1973.8	1936.8	1896.0	1860.6	1569.4	1480.4	1418.5	1340.8	1297.8	1263.8
12.5°	2305.8	2265.1	2218.3	2166.2	2120.9	1708.3	1584.5	1496.2	1389.8	1332.5	1284.9
15°	2649.1	2577.4	2520.8	2460.5	2407.6	1874.3	1706.0	1583.7	1441.9	1364.2	1300.8
17.5°	2968.2	2892.8	2815.8	2763.0	2701.9	2060.6	1828.2	1672.8	1485.0	1384.6	1303.8
20°	3279.9	3197.7	3131.3	3060.4	2996.2	2253.7	1958.7	1751.2	1512.8	1385.3	1284.9
22.5°	3554.5	3503.2	3429.3	3352.3	3287.4	2446.9	2081.0	1817.6	1523.4	1367.9	1251.8
25°	3866.9	3812.6	3722.0	3657.1	3584.7	2643.8	2200.9	1869.0	1517.3	1335.4	1200.4
27.5°	4200.4	4140.1	4047.2	3979.3	3891.9	2848.3	2311.1	1905.9	1494.6	1282.7	1131.8
30°	4548.3	4493.2	4401.8	4333.2	4244.9	3064.8	2434.1	1930.8	1449.5	1209.5	1051.8
32.5°	4921.7	4875.7	4785.1	4713.5	4619.2	3299.5	2548.8	1938.4	1380.8	1122.7	967.3
35°	5276.3	5244.7	5168.4	5101.4	5003.2	3521.3	2670.2	1934.6	1299.3	1027.7	890.4
37.5°	5675.5	5656.6	5618.8	5533.7	5413.7	3822.4	2815.8	1918.7	1199.6	933.3	831.5
40°	6101.0	6102.5	6061.8	6003.7	5892.1	4187.6	2989.5	1887.8	1091.1	850.4	777.9
42.5°	6551.5	6574.9	6555.2	6513.7	6406.6	4555.8	3196.9	1850.1	985.4	769.6	725.1
45°	7067.6	7096.3	7126.4	7065.2	6961.1	5041.7	3470.1	1801.0	871.5	702.4	688.9
47.5°	7662.9	7708.1	7735.3	7736.1	7632.0	5643.8	3913.6	1771.6	770.4	657.2	671.5
50°	8919.2	8933.5	8997.6	9109.3	9029.3	7037.4	4688.6	1753.5	701.7	629.3	658.8
52.5°	10729.3	10886.9	10997.8	10990.3	10881.6	7922.4	5115.6	1659.9	660.9	618.7	652.6
55°	11466.4	11663.3	11868.5	11922.9	11838.4	8677.7	5519.3	1566.3	641.4	626.3	654.9
57.5°	12448.8	12780.7	13062.2	13180.6	13058.4	9644.2	6050.4	1517.3	635.4	646.6	669.2
60°	13596.4	14006.8	14376.6	14589.4	14589.4	10754.9	6601.2	1497.0	627.0	676.8	693.4
62.5°	14333.5	14936.4	15494.7	15806.3	15797.4	11528.3	6845.7	1427.6	608.1	697.9	726.6
65°	14336.6	15053.4	15764.9	16114.9	16133.1	11433.2	6442.0	1260.9	573.4	700.9	759.8
67.5°	13141.3	13905.8	14734.9	15126.5	15217.1	10524.7	5576.6	1036.7	516.8	670.8	771.9
70°	11099.0	11845.2	12691.8	13076.4	13237.2	8972.0	4491.6	799.0	444.3	604.4	747.0
72.5°	8744.1	9475.9	10065.3	10346.7	10472.0	6857.7	3270.7	603.6	364.4	509.2	679.8
75°	6190.8	6740.1	7053.2	7115.8	7135.5	4134.1	1987.4	448.9	300.3	396.2	574.1
77.5°	3494.2	3729.6	3703.9	3731.9	3499.5	1595.8	865.5	321.4	247.5	301.0	445.1
80°	1364.2	1406.3	1321.2	1294.7	1187.6	593.9	381.8	224.1	197.6	228.0	311.6
82.5°	601.4	620.9	602.9	607.4	580.9	306.4	228.6	162.2	150.9	166.7	206.7
85°	331.3	337.3	335.8	345.6	331.3	122.3	108.6	99.7	105.7	113.2	132.8
87.5°	161.4	163.1	157.7	166.0	160.7	61.8	53.5	56.6	61.8	63.4	63.4
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°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1223.8	1217.8	1218.6	1217.0	1214.0	1214.0
5°	1213.3	1207.2	1207.2	1205.6	1202.0	1202.7
7.5°	1223.8	1214.0	1210.3	1204.9	1199.6	1199.6
10°	1235.9	1218.6	1208.0	1198.9	1192.1	1192.1
12.5°	1244.9	1217.8	1200.4	1188.4	1181.5	1181.5
15°	1248.0	1212.6	1188.4	1174.0	1168.0	1167.2
17.5°	1238.1	1192.1	1162.7	1146.1	1138.6	1136.3
20°	1208.0	1155.2	1119.7	1100.8	1090.3	1086.5
22.5°	1162.7	1102.3	1060.8	1041.2	1027.7	1025.4
25°	1099.3	1034.4	993.7	974.8	967.3	965.0
27.5°	1025.4	965.0	930.4	918.3	911.4	910.6
30°	955.3	903.9	878.2	869.1	860.9	859.5
32.5°	889.6	857.1	847.3	834.5	814.8	812.6
35°	842.8	839.7	833.0	804.3	780.2	773.3
37.5°	814.1	842.1	807.3	750.7	733.3	731.9
40°	797.5	818.7	759.1	739.4	740.9	739.4
42.5°	759.8	781.6	760.6	751.4	757.5	759.1
45°	722.1	746.2	771.9	765.8	780.2	780.2
47.5°	700.9	737.2	771.2	771.2	792.2	799.8
50°	676.8	729.7	759.1	769.6	786.2	780.2
52.5°	675.3	716.7	741.7	760.6	768.1	761.3
55°	677.5	706.3	724.4	745.4	754.6	755.3
57.5°	680.5	700.3	712.3	722.1	749.2	749.2
60°	688.2	694.9	701.7	707.0	742.4	743.2
62.5°	700.3	689.7	688.2	693.4	738.7	735.7
65°	719.0	682.1	670.8	676.1	734.9	725.8
67.5°	744.7	670.8	648.9	652.6	731.9	712.3
70°	768.1	652.6	621.6	618.0	703.2	668.4
72.5°	770.4	631.5	584.0	572.6	611.2	578.0
75°	732.6	617.2	542.5	509.2	504.8	500.3
77.5°	660.3	608.9	494.2	442.2	433.1	436.2
80°	552.3	578.0	436.2	374.2	423.3	418.0
82.5°	412.7	510.0	370.5	331.3	330.5	292.0
85°	229.3	397.6	301.8	248.2	172.7	167.5
87.5°	64.1	221.0	211.3	140.3	95.8	99.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)