

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: P193025

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193025
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-07-LED-E1-SLL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28912.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

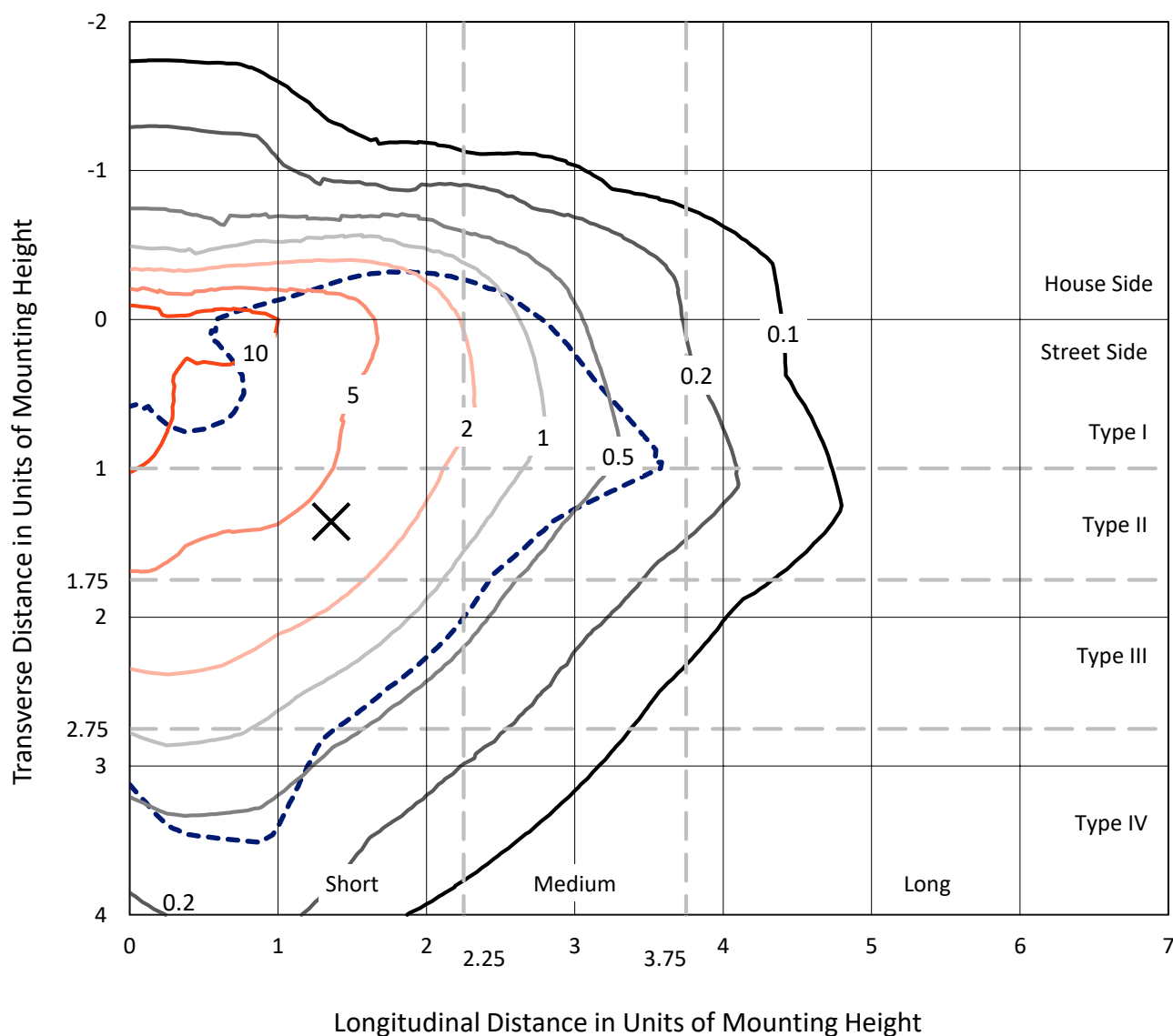


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

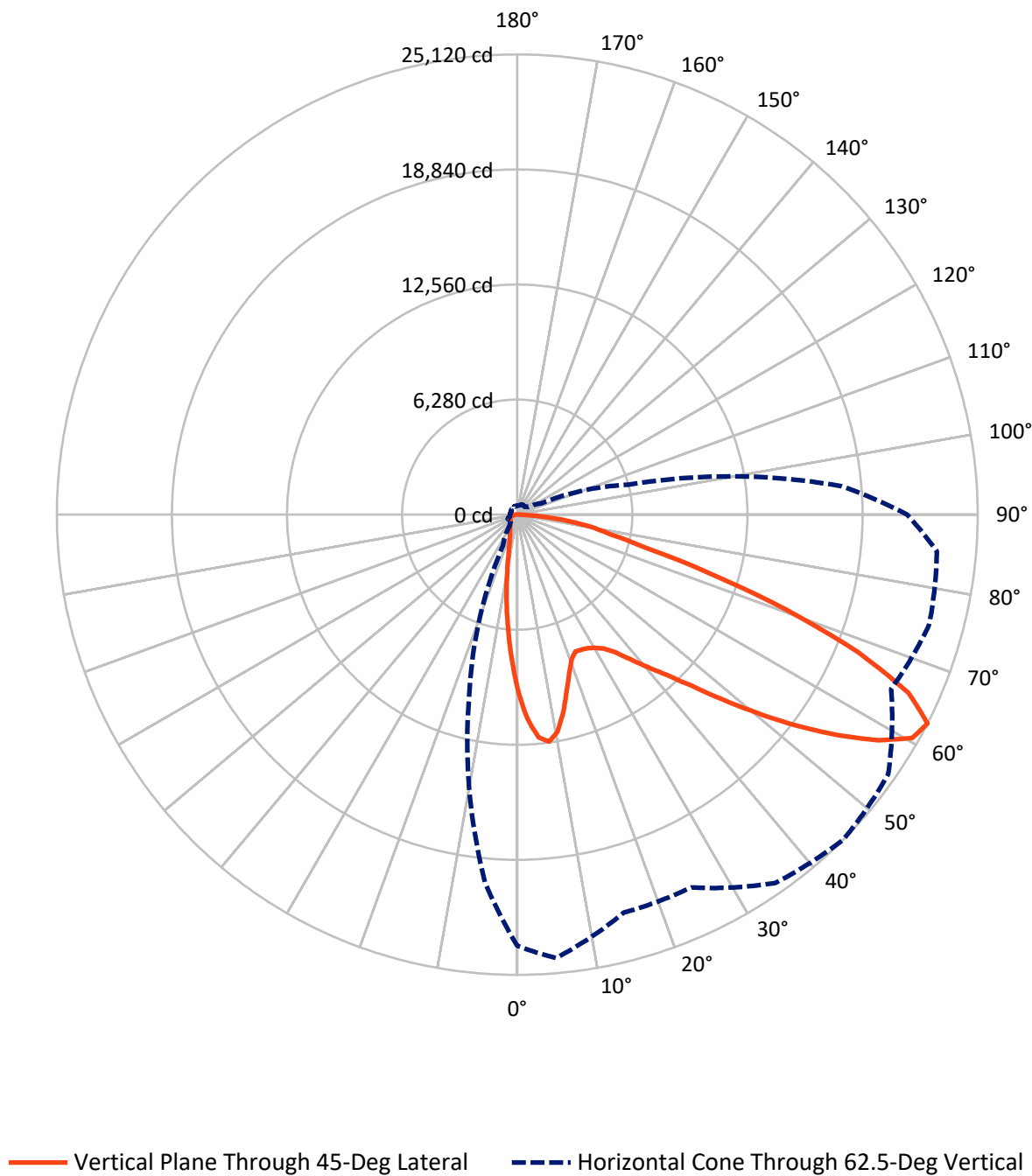


Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4784.6	0.0	4784.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24127.6	0.0	24127.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	28912.2	0.0	28912.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.1	2.5
10°-20°	1303.9	4.5
20°-30°	1901.1	6.6
30°-40°	2928.0	10.1
40°-50°	4309.2	14.9
50°-60°	6320.7	21.9
60°-70°	7065.6	24.4
70°-80°	3459.2	12.0
80°-90°	913.3	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°	28912.2	100.0
0°-180°	28912.2	100.0

Coefficient of Utilization



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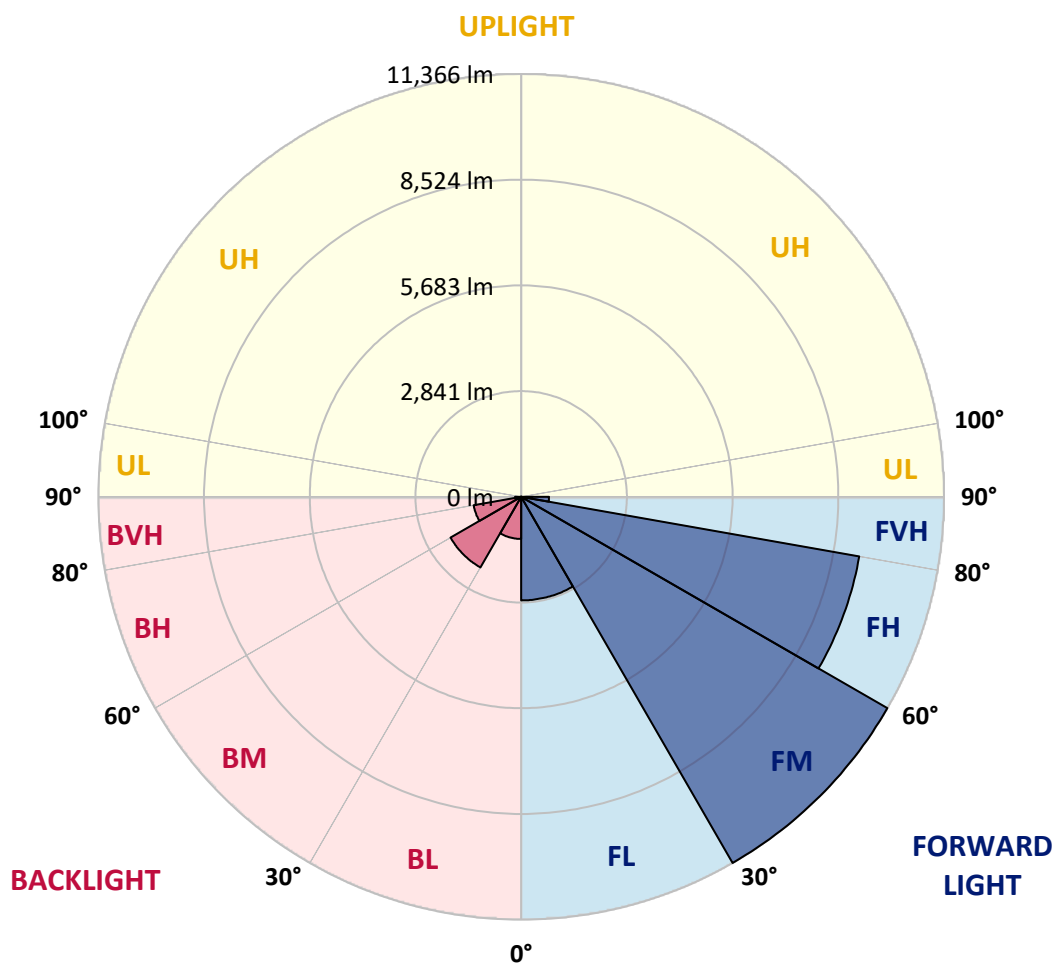
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2784.1	9.6			
FM	(30°-60°)	11365.6	39.3			
FH	(60°-80°)	9227.8	31.9			G4/12000
FVH	(80°-90°)	750.1	2.6			G5
BL	(0°-30°)	1131.9	3.9	B3/2500		
BM	(30°-60°)	2192.2	7.6	B2/2500		
BH	(60°-80°)	1297.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	163.3	0.6			G2/225
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°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	10149.5	10311.7	10627.9	10864.7	11152.4	11219.2	11311.4	11220.7	11060.2	10847.3	10777.4
5°	9544.1	9890.4	10658.1	11333.6	11934.4	12214.1	12292.0	12061.5	11595.8	10984.0	10610.5
7.5°	8572.9	9065.6	10105.1	11099.9	11985.2	12508.1	12495.4	11959.8	11103.2	10106.6	9507.4
10°	7735.3	8297.9	9489.9	10602.5	11541.8	12048.8	11853.3	11168.3	10146.4	8998.8	8348.8
12.5°	7266.5	7817.9	9027.4	10144.7	10929.9	11104.8	10955.3	10284.7	9321.5	8161.2	7592.3
15°	7185.4	7790.9	8843.1	9752.2	10192.5	10039.9	9861.8	9561.5	8881.2	7891.0	7298.3
17.5°	7536.7	8204.2	9054.6	9478.8	9404.2	9138.7	9087.8	9121.2	8957.5	8191.5	7508.1
20°	8210.5	9011.6	9558.3	9350.1	8804.9	8439.4	8452.1	8962.3	9447.0	8952.8	8172.4
22.5°	9156.2	10070.1	10284.7	9418.4	8552.3	8118.4	8223.3	9049.7	10227.4	10065.3	9068.7
25°	10379.9	11212.8	11058.6	9666.3	8577.7	8158.1	8242.3	9351.7	11149.3	11177.9	10178.1
27.5°	11565.6	12338.1	11708.7	9995.4	8682.7	8252.0	8363.1	9826.9	12029.8	12385.7	11446.4
30°	12490.6	13027.8	11966.2	10295.7	8889.3	8434.6	8572.9	10278.2	12430.2	13201.0	12422.3
32.5°	13256.7	13642.8	12376.3	10667.6	9269.0	8722.2	8965.5	10826.6	13007.2	13976.7	13377.4
35°	14235.7	14345.4	12886.4	11082.5	9855.5	9222.9	9524.9	11363.8	13557.1	14760.2	14318.4
37.5°	15383.2	15241.7	13368.0	11649.9	10613.7	10006.5	10256.0	11953.4	14010.1	15648.6	15279.9
40°	16518.1	16177.9	13971.8	12530.4	11719.8	10929.9	11225.6	12582.9	14432.8	16538.7	16219.2
42.5°	17482.8	16978.9	14567.9	13498.3	12749.7	11948.7	12301.5	13217.0	14836.6	17298.4	17034.6
45°	18196.4	17570.2	15135.2	14428.0	14169.0	13302.8	13469.7	13943.3	15273.6	17932.5	17705.3
47.5°	18833.7	18164.6	15777.4	15365.7	15410.3	15063.8	14795.3	14788.8	15788.5	18450.7	18339.3
50°	19687.2	18989.5	16467.1	16332.1	17273.1	17042.5	16449.6	15775.8	16440.1	19038.8	19026.0
52.5°	20863.3	20295.9	17309.5	17373.1	19011.6	19162.7	18428.4	16961.4	17460.5	20117.9	20041.7
55°	22253.9	21923.4	18457.0	18569.8	21144.6	21252.7	20523.1	18444.3	18960.9	21680.2	21468.8
57.5°	23339.5	23269.6	19715.9	20006.7	22737.1	23223.5	22552.8	20160.8	20651.8	22996.3	22465.4
60°	23771.7	24110.4	21055.6	21456.2	24210.4	24749.2	24161.1	21669.1	22150.6	23541.3	22397.0
62.5°	23538.2	24294.7	22482.9	22449.5	24539.4	25119.6	24706.4	22508.3	23261.7	22978.8	21263.8
65°	22459.0	23631.9	23310.9	22193.7	23414.1	23461.9	23328.4	22133.2	23523.8	21200.2	19073.7
67.5°	20108.4	21796.2	22220.6	20000.2	20378.5	20068.6	19844.5	20079.7	22157.0	18534.8	16030.1
70°	16378.2	18917.9	19121.4	15996.7	15825.1	15616.9	15170.2	16462.4	19459.9	15191.0	12719.5
72.5°	12042.4	14712.6	15337.2	11732.5	10937.8	10980.8	10627.9	12406.4	15822.0	11284.3	9496.3
75°	8239.1	10653.4	11999.5	8186.7	7233.1	7250.6	7206.0	8790.7	12601.9	7849.7	7105.9
77.5°	6018.9	7611.3	9049.7	5503.9	5343.4	5244.9	5221.0	6150.7	9661.6	5699.4	5518.2
80°	4830.1	5623.1	6079.1	3814.5	4102.1	4094.2	3962.2	4229.2	6309.7	4168.9	4127.5
82.5°	3350.3	4321.4	4925.4	2989.6	2768.6	2722.5	2754.3	3150.1	4459.8	2849.7	2709.8
85°	1767.4	2870.3	4877.7	2649.4	1643.4	1311.2	1630.7	2579.5	3863.7	1509.9	1322.4
87.5°	225.7	829.6	3229.6	1056.9	648.5	349.6	774.0	1452.7	2481.0	308.3	268.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	10597.7	10386.3	10109.8	9853.9	9588.5	9324.6	8979.8	8763.5	8614.2	8585.6	8522.0
5°	10340.3	9637.8	9107.0	8647.7	8231.1	7643.1	7317.3	7047.1	6902.6	6888.2	6853.3
7.5°	9152.9	8183.5	7466.8	6816.6	6227.0	5751.9	5227.3	4982.6	4882.5	4906.3	4930.1
10°	7918.1	6834.1	6010.9	5346.5	4826.8	4426.3	4005.1	3720.6	3523.6	3483.8	3475.9
12.5°	7015.3	5826.6	5027.1	4558.2	4156.1	3779.5	3332.9	2997.5	2741.7	2654.2	2595.4
15°	6633.9	5333.8	4496.2	3990.8	3547.4	3069.0	2654.2	2302.9	2067.7	1991.5	1948.5
17.5°	6715.0	5197.1	4130.6	3483.8	2916.4	2417.4	1894.4	1594.1	1452.7	1416.1	1416.1
20°	7140.8	5171.7	3828.8	3016.5	2309.3	1730.7	1301.8	1130.1	1084.0	1079.2	1091.8
22.5°	7738.5	5260.8	3603.1	2611.3	1794.4	1263.5	1014.0	950.4	929.8	934.5	948.8
25°	8628.5	5561.1	3439.4	2250.5	1408.2	1034.6	904.3	866.2	856.7	869.3	886.8
27.5°	9683.8	5861.5	3337.7	1978.6	1188.8	945.6	859.9	820.1	826.4	842.4	858.2
30°	10610.5	6107.8	3177.0	1784.9	1120.5	950.4	859.9	805.8	799.4	802.6	807.4
32.5°	11441.6	6274.8	2989.6	1600.4	966.3	843.9	802.6	794.7	759.7	747.0	748.5
35°	12158.5	6274.8	2876.7	1492.4	866.2	748.5	681.8	642.1	624.6	626.2	643.6
37.5°	12849.9	6149.1	2821.1	1432.0	812.2	712.1	653.3	618.3	594.4	589.7	592.8
40°	13460.0	5966.4	2757.4	1406.6	770.9	689.8	634.1	605.6	580.0	572.2	573.7
42.5°	13949.6	5818.6	2687.6	1373.2	745.3	673.9	621.4	596.0	567.4	559.4	557.9
45°	14478.9	5769.3	2595.4	1306.4	758.1	675.4	618.3	591.2	562.5	553.1	549.9
47.5°	15176.6	5923.5	2500.1	1227.0	785.1	683.4	623.0	591.2	561.0	553.1	549.9
50°	16055.5	6285.8	2379.2	1110.9	758.1	705.7	621.4	586.5	561.0	553.1	546.8
52.5°	17184.0	6775.3	2220.2	977.5	742.2	759.7	618.3	576.9	553.1	541.9	530.9
55°	18555.6	7175.9	2031.1	867.7	705.7	745.3	613.5	565.9	540.4	524.5	514.9
57.5°	19560.0	7320.5	1788.0	796.3	654.8	721.5	607.2	551.5	524.5	511.8	499.1
60°	19361.4	7040.7	1582.9	751.8	624.6	651.6	602.3	538.7	510.1	500.6	489.5
62.5°	17770.5	6309.7	1451.1	731.1	605.6	594.4	607.2	526.1	497.4	488.0	484.8
65°	15384.8	5230.6	1398.6	726.3	589.7	561.0	564.3	511.8	483.2	475.2	472.0
67.5°	12690.9	4221.3	1352.5	742.2	569.0	537.2	521.2	492.6	468.8	460.8	454.5
70°	10008.0	3510.8	1331.9	732.7	543.6	513.4	495.9	472.0	451.4	443.4	438.6
72.5°	8059.5	2965.8	1320.7	723.2	510.1	481.7	465.7	445.0	422.8	419.5	414.8
75°	6819.9	2331.6	1209.5	692.9	472.0	443.4	432.3	413.2	390.9	390.9	387.8
77.5°	5260.8	1686.3	1006.1	613.5	432.3	400.6	390.9	376.7	351.3	355.9	354.4
80°	3886.0	1099.8	786.7	508.6	383.1	352.8	348.1	333.8	306.7	313.1	313.1
82.5°	2662.1	721.5	565.9	416.4	327.4	298.9	298.9	284.5	254.2	257.6	267.0
85°	1336.7	495.9	422.8	322.7	254.2	240.1	240.1	228.9	198.7	200.3	212.9
87.5°	406.9	298.9	279.7	230.4	182.8	179.6	171.6	163.7	144.7	143.0	151.0
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°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	8425.1	8334.6	8224.8	7983.2	7902.1	7897.5	7970.6	7894.3	8040.5	7978.5	8046.8
5°	6794.4	6705.5	6583.1	6274.8	6087.2	5960.0	5899.7	5721.6	5850.4	5756.6	5834.5
7.5°	4996.9	5017.5	4936.5	4755.3	4346.9	4141.8	4021.1	3913.0	4006.7	3997.1	4146.6
10°	3512.4	3568.1	3510.8	3328.0	2997.5	2884.7	2907.0	2949.8	3072.2	3135.7	3366.3
12.5°	2528.7	2525.4	2488.9	2325.2	2107.5	2120.1	2210.8	2285.4	2398.3	2465.1	2700.4
15°	1888.1	1859.5	1843.6	1710.1	1586.1	1613.2	1657.7	1665.6	1737.1	1776.9	1967.6
17.5°	1427.3	1441.5	1459.0	1363.7	1269.9	1252.4	1217.4	1174.5	1195.2	1203.2	1298.5
20°	1133.2	1190.4	1233.3	1166.6	1071.2	1020.4	975.9	947.3	947.3	945.6	972.6
22.5°	990.1	1031.5	1077.7	1031.5	945.6	901.2	875.7	853.5	850.2	850.2	875.7
25°	912.4	942.5	986.9	955.2	891.7	858.2	834.4	805.8	794.7	791.5	808.9
27.5°	874.2	886.8	909.1	880.5	826.4	810.6	804.2	778.8	764.5	756.5	774.0
30°	808.9	805.8	807.4	778.8	735.9	734.2	745.3	750.2	745.3	743.8	770.9
32.5°	748.5	742.2	740.7	715.2	675.4	665.9	675.4	685.0	696.1	712.1	743.8
35°	672.3	688.3	697.7	675.4	627.8	599.2	588.1	570.6	561.0	561.0	597.5
37.5°	611.9	648.5	662.7	642.1	589.7	549.9	530.9	527.6	529.3	535.6	570.6
40°	591.2	618.3	631.0	610.3	557.9	521.2	510.1	507.0	510.1	519.7	554.7
42.5°	578.5	597.5	596.0	570.6	527.6	502.3	495.9	492.6	495.9	505.5	543.6
45°	567.4	580.0	567.4	537.2	497.4	484.8	486.3	484.8	488.0	497.4	534.1
47.5°	557.9	562.5	546.8	516.6	475.2	472.0	478.4	483.2	486.3	494.3	532.4
50°	543.6	543.6	529.3	497.4	456.1	457.7	465.7	476.8	478.4	488.0	518.1
52.5°	526.1	524.5	514.9	484.8	440.2	445.0	445.0	457.7	460.8	472.0	503.8
55°	511.8	508.6	503.8	475.2	425.9	433.9	429.2	433.9	441.9	453.0	488.0
57.5°	499.1	492.6	492.6	467.3	414.8	418.0	406.9	413.2	422.8	432.3	468.8
60°	486.3	479.9	483.2	456.1	397.3	394.2	389.4	402.1	405.3	416.4	453.0
62.5°	472.0	467.3	468.8	443.4	384.6	376.7	376.7	387.8	389.4	405.3	440.2
65°	460.8	454.5	453.0	430.7	370.3	360.8	365.6	370.3	373.4	389.4	422.8
67.5°	449.8	437.0	437.0	419.5	354.4	344.9	354.4	352.8	357.6	371.9	398.9
70°	435.5	418.0	419.5	411.7	338.4	327.4	335.3	333.8	336.9	346.5	373.4
72.5°	413.2	398.9	402.1	398.9	322.7	306.7	310.0	310.0	310.0	317.8	346.5
75°	384.6	373.4	383.1	390.9	303.5	281.4	284.5	284.5	279.7	284.5	319.5
77.5°	349.6	343.3	375.1	364.0	281.4	254.2	254.2	251.1	241.6	247.9	286.0
80°	311.5	306.7	346.5	305.2	255.8	220.9	217.8	209.8	200.3	205.1	243.2
82.5°	271.7	267.0	290.8	233.6	220.9	182.8	174.9	160.5	151.0	155.8	190.7
85°	222.6	222.6	224.1	176.5	168.5	139.9	130.3	111.2	100.1	103.4	136.7
87.5°	159.0	163.7	151.0	120.8	100.1	77.9	71.6	60.4	50.8	58.8	71.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1	9768.1
2.5°	8396.5	8571.3	8770.0	9024.3	9242.0	9599.6	9942.9	10149.5
5°	6277.9	6568.7	6931.1	7396.8	7830.7	8482.4	9129.1	9544.1
7.5°	4493.1	4804.5	5195.6	5777.3	6390.8	7221.9	8077.0	8572.9
10°	3717.4	4036.9	4365.9	4758.5	5260.8	6165.1	7175.9	7735.3
12.5°	3075.4	3417.1	3771.5	4184.7	4650.4	5457.8	6622.7	7266.5
15°	2353.8	2735.3	3153.2	3676.1	4259.5	5192.3	6486.0	7185.4
17.5°	1613.2	2039.1	2552.6	3197.8	3911.4	5106.6	6730.8	7536.7
20°	1110.9	1420.9	1969.2	2725.7	3583.9	5095.5	7201.3	8210.5
22.5°	929.8	1068.0	1468.6	2291.8	3337.7	5232.1	7930.8	9156.2
25°	859.9	942.5	1172.9	1915.2	3158.0	5546.8	8935.3	10379.9
27.5°	818.5	893.2	1064.8	1668.8	3016.5	5912.3	9912.8	11565.6
30°	834.4	910.6	1034.6	1543.3	2824.3	6217.5	10780.5	12490.6
32.5°	751.8	785.1	886.8	1432.0	2686.0	6473.4	11540.2	13256.7
35°	640.5	699.3	791.5	1379.5	2689.2	6645.0	12368.2	14235.7
37.5°	610.3	669.1	735.9	1360.5	2725.7	6827.8	13318.7	15383.2
40°	591.2	645.2	702.5	1349.4	2760.7	6994.7	14250.0	16518.1
42.5°	578.5	627.8	699.3	1311.2	2778.1	7144.1	15016.0	17482.8
45°	576.9	627.8	712.1	1273.1	2805.2	7304.6	15658.2	18196.4
47.5°	578.5	648.5	688.3	1227.0	2805.2	7573.2	16411.5	18833.7
50°	572.2	683.4	662.7	1161.9	2740.0	8081.8	17444.7	19687.2
52.5°	569.0	678.6	613.5	1061.7	2627.1	8889.3	18768.5	20863.3
55°	561.0	654.8	578.5	912.4	2495.3	9769.6	20186.2	22253.9
57.5°	553.1	580.0	559.4	782.0	2291.8	10389.6	21162.1	23339.5
60°	619.8	507.0	543.6	718.4	2020.1	10559.6	21123.9	23771.7
62.5°	573.7	475.2	523.0	704.0	1829.3	10082.8	20148.1	23538.2
65°	449.8	454.5	502.3	745.3	1778.5	8819.3	18418.9	22459.0
67.5°	411.7	433.9	481.7	797.8	1783.2	7061.4	15834.6	20108.4
70°	387.8	411.7	457.7	824.9	1796.0	5263.9	12519.3	16378.2
72.5°	360.8	381.5	430.7	829.6	1713.3	3824.0	9648.9	12042.4
75°	329.0	348.1	392.6	723.2	1419.3	2652.6	7380.9	8239.1
77.5°	292.5	306.7	344.9	557.9	1053.7	1697.5	5540.4	6018.9
80°	249.5	257.6	289.2	408.4	721.5	1061.7	4383.4	4830.1
82.5°	200.3	203.4	224.1	306.7	468.8	681.8	2935.5	3350.3
85°	141.5	141.5	154.2	222.6	319.5	432.3	1594.1	1767.4
87.5°	66.7	68.4	68.4	122.4	166.8	219.3	367.1	225.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)