

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: P193033

Luminaire Tested: **GLEON-AF-05-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193033
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-05-LED-E1-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 25287 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

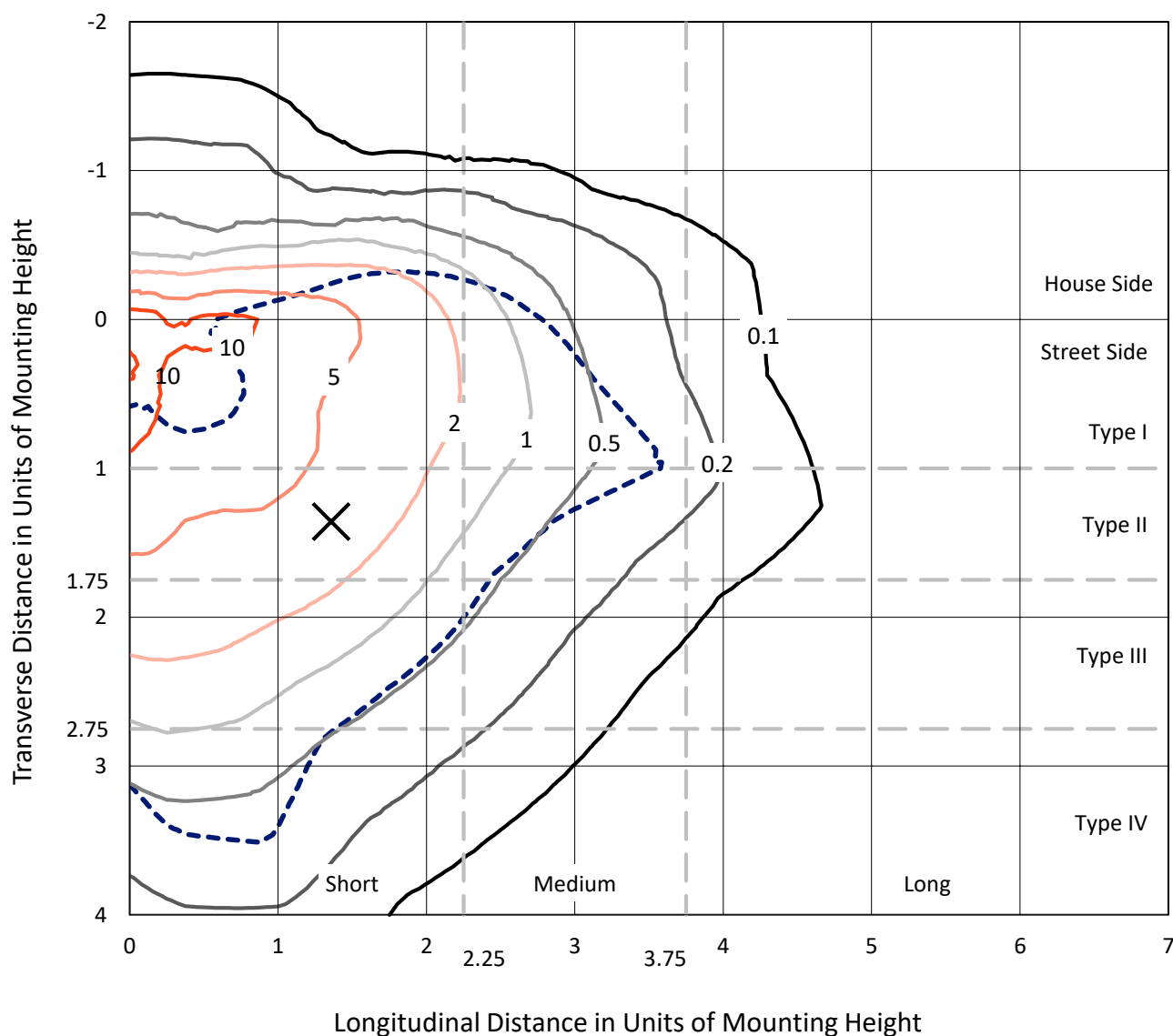


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

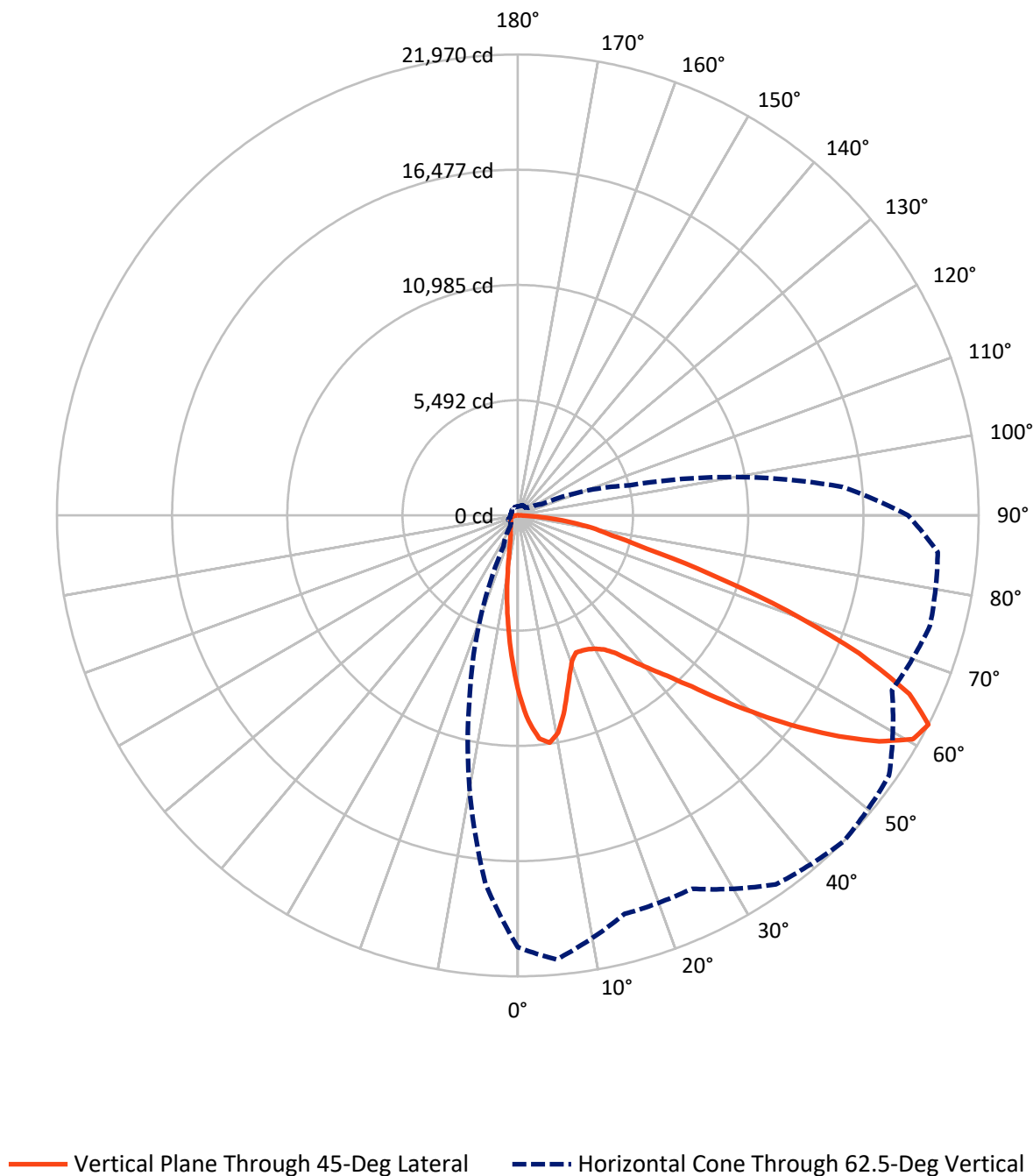


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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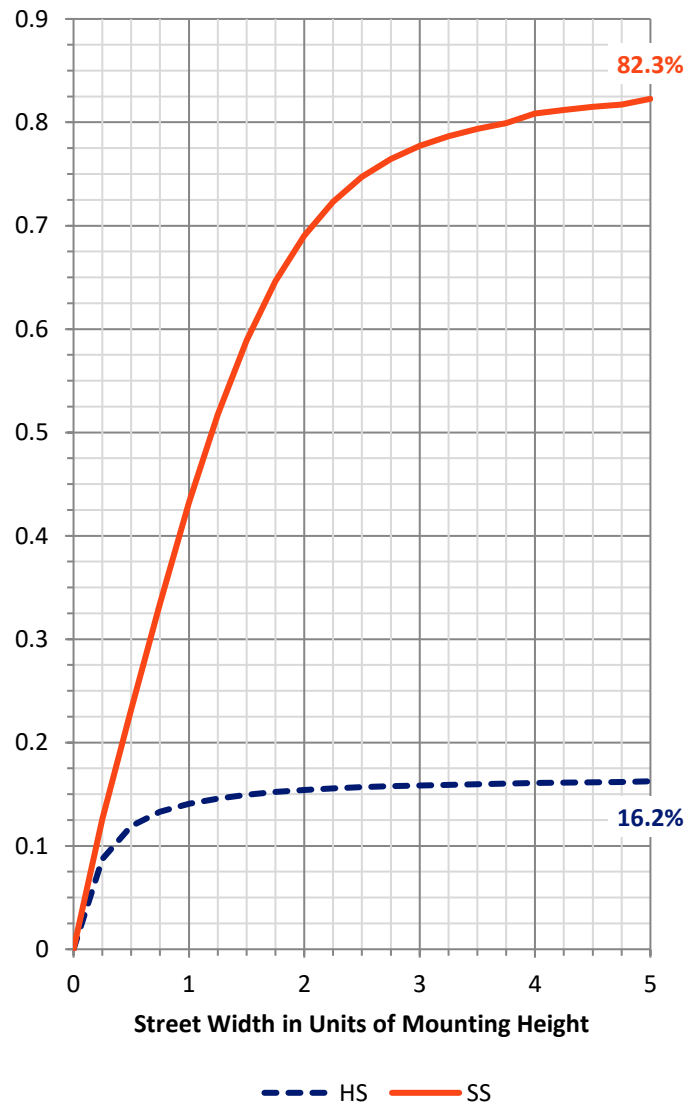
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4184.6	0.0	4184.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21102.3	0.0	21102.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	25287.0	0.0	25287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.9	2.5
10°-20°	1140.4	4.5
20°-30°	1662.7	6.6
30°-40°	2560.8	10.1
40°-50°	3768.9	14.9
50°-60°	5528.2	21.9
60°-70°	6179.7	24.4
70°-80°	3025.5	12.0
80°-90°	798.8	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°	25287.0	100.0
0°-180°	25287.0	100.0

Coefficient of Utilization



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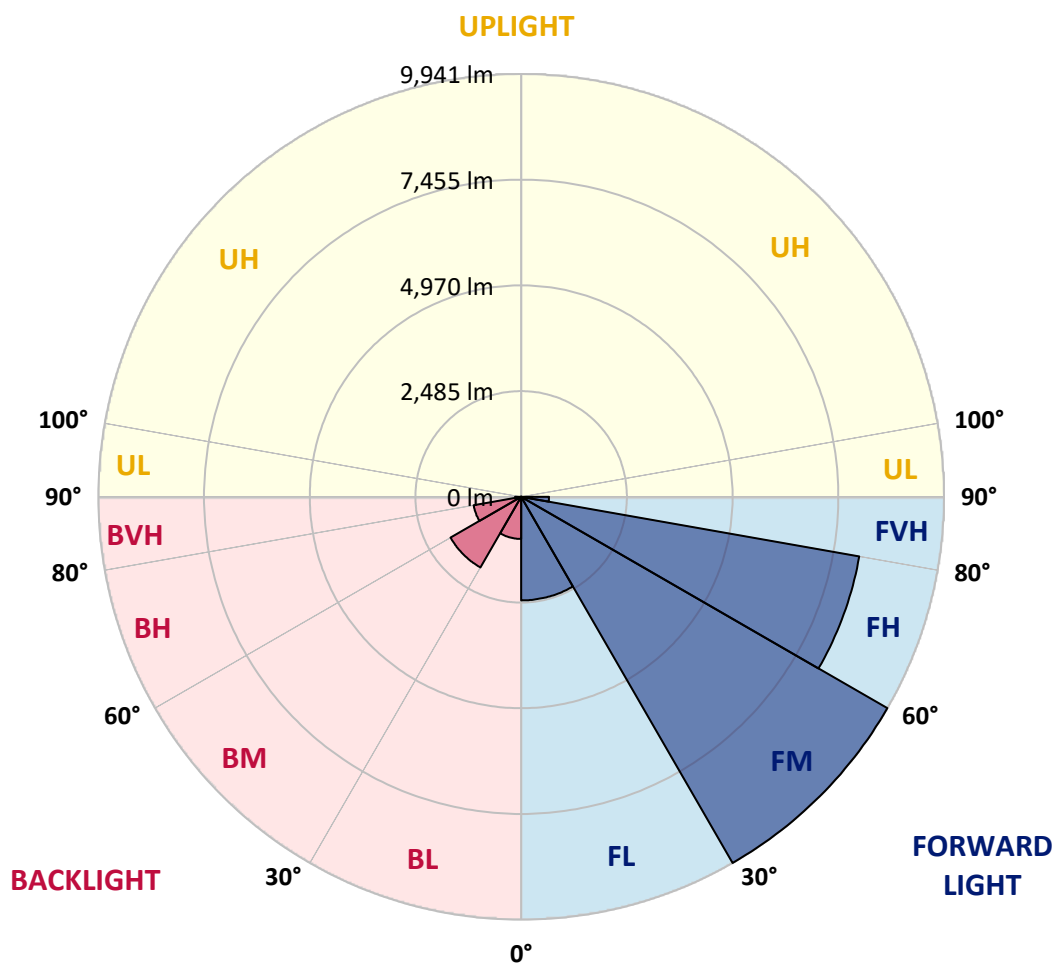
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2435.1	9.6			
FM	(30°-60°)	9940.5	39.3			
FH	(60°-80°)	8070.7	31.9			G4/12000
FVH	(80°-90°)	656.0	2.6			G4/750
BL	(0°-30°)	990.0	3.9	B2/1000		
BM	(30°-60°)	1917.4	7.6	B2/2500		
BH	(60°-80°)	1134.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	8876.9	9018.7	9295.3	9502.4	9754.0	9812.5	9893.1	9813.7	9673.4	9487.2	9426.1
5°	8347.3	8650.4	9321.8	9912.5	10438.0	10682.6	10750.7	10549.2	10141.9	9606.7	9280.1
7.5°	7498.0	7929.0	8838.0	9708.1	10482.5	10939.8	10928.6	10460.2	9711.0	8839.4	8315.2
10°	6765.5	7257.5	8300.0	9273.1	10094.6	10538.0	10367.1	9767.9	8874.1	7870.5	7302.1
12.5°	6355.4	6837.7	7895.5	8872.7	9559.4	9712.4	9581.7	8995.1	8152.7	7137.9	6640.3
15°	6284.5	6814.1	7734.3	8529.5	8914.5	8780.9	8625.4	8362.6	7767.7	6901.7	6383.2
17.5°	6591.6	7175.5	7919.1	8290.3	8224.9	7992.9	7948.4	7977.6	7834.3	7164.3	6566.6
20°	7181.1	7881.6	8359.9	8177.7	7700.9	7381.2	7392.4	7838.6	8262.5	7830.2	7147.6
22.5°	8008.1	8807.4	8995.1	8237.5	7479.9	7100.4	7192.2	7915.0	8945.0	8803.2	7931.6
25°	9078.5	9806.9	9672.0	8454.4	7502.2	7135.1	7208.8	8179.1	9751.3	9776.3	8901.9
27.5°	10115.4	10791.0	10240.6	8742.1	7593.8	7217.2	7314.5	8594.8	10521.3	10832.7	10011.2
30°	10924.5	11394.3	10465.7	9004.8	7774.6	7377.0	7498.0	8989.6	10871.7	11545.9	10864.7
32.5°	11594.5	11932.3	10824.5	9330.0	8106.8	7628.6	7841.3	9469.1	11376.2	12224.2	11700.1
35°	12450.7	12546.7	11270.6	9692.8	8619.8	8066.5	8330.6	9938.9	11857.2	12909.4	12523.1
37.5°	13454.4	13330.6	11691.9	10189.1	9282.7	8751.7	8970.0	10454.6	12253.3	13686.5	13364.0
40°	14447.0	14149.4	12220.0	10959.2	10250.2	9559.4	9817.9	11005.1	12623.2	14465.0	14185.5
42.5°	15290.7	14850.0	12741.3	11805.8	11151.0	10450.4	10759.1	11559.7	12976.1	15129.3	14898.6
45°	15914.8	15367.1	13237.6	12618.9	12392.4	11634.8	11780.8	12195.0	13358.5	15684.0	15485.2
47.5°	16472.2	15887.0	13799.1	13439.1	13478.0	13174.9	12940.0	12934.4	13808.8	16137.1	16040.0
50°	17218.6	16608.4	14402.4	14284.2	15107.2	14905.5	14387.1	13797.7	14378.7	16651.5	16640.4
52.5°	18247.3	17751.1	15139.1	15194.6	16627.8	16760.0	16117.7	14834.6	15271.1	17595.3	17528.7
55°	19463.6	19174.5	16142.7	16241.4	18493.3	18587.8	17949.8	16131.6	16583.4	18961.8	18776.9
57.5°	20413.0	20351.8	17243.7	17498.1	19886.2	20311.6	19724.9	17633.0	18062.4	20112.8	19648.4
60°	20791.1	21087.1	18415.5	18765.9	21174.8	21646.0	21131.7	18952.0	19373.2	20589.6	19588.6
62.5°	20586.7	21248.4	19663.7	19634.6	21462.5	21969.9	21608.4	19686.0	20344.8	20097.4	18597.6
65°	19642.9	20668.8	20388.0	19410.8	20478.4	20520.1	20403.3	19357.9	20574.3	18542.0	16682.1
67.5°	17587.0	19063.2	19434.4	17492.5	17823.4	17552.3	17356.3	17562.0	19378.8	16210.9	14020.1
70°	14324.6	16545.9	16723.8	13990.9	13840.9	13658.7	13268.1	14398.1	17019.9	13286.2	11124.7
72.5°	10532.5	12867.8	13414.1	10261.4	9566.4	9603.9	9295.3	10850.7	13838.0	9869.4	8305.6
75°	7206.0	9317.5	10494.9	7160.2	6326.1	6341.4	6302.5	7688.5	11021.7	6865.6	6215.0
77.5°	5264.1	6656.9	7915.0	4813.8	4673.3	4587.1	4566.4	5379.5	8450.1	4984.7	4826.3
80°	4224.4	4918.0	5317.0	3336.1	3587.7	3580.8	3465.3	3699.0	5518.5	3646.1	3610.0
82.5°	2930.3	3779.6	4307.8	2614.7	2421.5	2381.2	2408.9	2755.1	3900.5	2492.4	2370.1
85°	1545.7	2510.4	4266.1	2317.3	1437.3	1146.7	1426.2	2256.1	3379.3	1320.5	1156.5
87.5°	197.4	725.6	2824.6	924.5	567.2	305.8	677.0	1270.4	2169.9	269.7	234.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	9268.9	9084.1	8842.2	8618.4	8386.2	8155.4	7853.9	7664.7	7534.1	7509.1	7453.4
5°	9043.7	8429.4	7965.0	7563.3	7199.1	6684.8	6399.9	6163.6	6037.0	6024.5	5994.0
7.5°	8005.3	7157.3	6530.5	5961.9	5446.2	5030.7	4572.0	4357.8	4270.3	4291.1	4311.9
10°	6925.3	5977.2	5257.2	4676.2	4221.6	3871.3	3503.0	3254.2	3081.7	3047.0	3040.0
12.5°	6135.7	5096.0	4396.7	3986.7	3635.0	3305.5	2914.9	2621.6	2397.8	2321.4	2270.0
15°	5802.1	4665.1	3932.5	3490.4	3102.6	2684.2	2321.4	2014.2	1808.5	1741.7	1704.2
17.5°	5873.0	4545.5	3612.7	3047.0	2550.7	2114.2	1656.9	1394.2	1270.4	1238.6	1238.6
20°	6245.5	4523.3	3348.7	2638.3	2019.7	1513.8	1138.5	988.4	948.1	943.9	954.9
22.5°	6768.2	4601.1	3151.2	2283.8	1569.4	1105.0	886.8	831.3	813.2	817.4	829.9
25°	7546.6	4863.7	3008.1	1968.3	1231.6	904.8	790.9	757.6	749.2	760.3	775.6
27.5°	8469.7	5126.6	2919.1	1730.6	1039.7	827.1	752.0	717.3	722.9	736.7	750.6
30°	9280.1	5342.0	2778.7	1561.0	979.9	831.3	752.0	704.7	699.1	702.0	706.2
32.5°	10007.0	5488.0	2614.7	1399.8	845.1	738.1	702.0	695.0	664.4	653.4	654.7
35°	10633.9	5488.0	2516.0	1305.2	757.6	654.7	596.3	561.6	546.3	547.7	563.0
37.5°	11238.6	5378.2	2467.4	1252.4	710.3	622.8	571.3	540.8	519.8	515.7	518.6
40°	11772.3	5218.3	2411.8	1230.1	674.1	603.3	554.6	529.6	507.4	500.4	501.8
42.5°	12200.6	5089.0	2350.6	1201.0	651.9	589.4	543.6	521.2	496.2	489.3	488.0
45°	12663.4	5045.9	2270.0	1142.7	663.1	590.8	540.8	517.2	492.1	483.7	481.0
47.5°	13273.7	5180.7	2186.6	1073.2	686.7	597.7	544.8	517.2	490.7	483.7	481.0
50°	14042.3	5497.7	2081.0	971.7	663.1	617.2	543.6	513.0	490.7	483.7	478.2
52.5°	15029.2	5925.7	1941.9	854.9	649.1	664.4	540.8	504.6	483.7	473.9	464.3
55°	16229.0	6276.1	1776.4	759.1	617.2	651.9	536.6	494.8	472.6	458.7	450.3
57.5°	17107.5	6402.6	1563.8	696.4	572.7	631.1	531.0	482.4	458.7	447.6	436.5
60°	16933.6	6158.0	1384.6	657.5	546.3	569.9	526.8	471.2	446.3	437.9	428.2
62.5°	15542.2	5518.5	1269.1	639.3	529.6	519.8	531.0	460.1	435.1	426.7	423.9
65°	13455.8	4574.6	1223.2	635.3	515.7	490.7	493.6	447.6	422.7	415.6	412.9
67.5°	11099.6	3692.0	1183.0	649.1	497.6	469.9	455.9	430.9	410.0	403.1	397.6
70°	8753.2	3070.6	1164.9	640.8	475.4	448.9	433.6	412.9	394.8	387.9	383.6
72.5°	7049.0	2593.9	1155.1	632.5	446.3	421.2	407.3	389.2	369.8	367.0	362.8
75°	5964.8	2039.3	1057.8	606.1	412.9	387.9	378.1	361.4	342.0	342.0	339.1
77.5°	4601.1	1474.9	879.9	536.6	378.1	350.2	342.0	329.4	307.2	311.4	310.0
80°	3398.7	961.9	688.2	444.8	335.0	308.5	304.4	291.9	268.2	273.8	273.8
82.5°	2328.4	631.1	494.8	364.2	286.4	261.3	261.3	248.8	222.5	225.2	233.5
85°	1169.1	433.6	369.8	282.2	222.5	209.9	209.9	200.2	173.7	175.2	186.3
87.5°	355.8	261.3	244.6	201.6	159.8	157.2	150.1	143.1	126.5	125.1	132.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	7368.7	7289.4	7193.5	6982.2	6911.4	6907.2	6971.2	6904.4	7032.3	6978.1	7037.8
5°	5942.5	5864.7	5757.6	5488.0	5323.8	5212.8	5159.9	5004.2	5116.8	5034.7	5103.0
7.5°	4370.4	4388.4	4317.5	4159.1	3801.7	3622.5	3516.8	3422.3	3504.4	3496.0	3626.7
10°	3072.1	3120.7	3070.6	2910.7	2621.6	2522.9	2542.5	2579.9	2687.0	2742.6	2944.1
12.5°	2211.6	2208.7	2176.9	2033.7	1843.2	1854.3	1933.6	1998.9	2097.6	2156.0	2361.7
15°	1651.4	1626.4	1612.4	1495.6	1387.3	1410.9	1449.9	1456.8	1519.4	1554.1	1721.0
17.5°	1248.3	1260.8	1276.0	1192.7	1110.6	1095.4	1064.7	1027.2	1045.3	1052.2	1135.6
20°	991.1	1041.1	1078.7	1020.3	936.9	892.4	853.6	828.5	828.5	827.1	850.7
22.5°	866.0	902.2	942.5	902.2	827.1	788.2	765.9	746.5	743.7	743.7	765.9
25°	797.9	824.3	863.2	835.4	779.8	750.6	729.8	704.7	695.0	692.2	707.6
27.5°	764.5	775.6	795.1	770.1	722.9	709.0	703.4	681.1	668.6	661.7	677.0
30°	707.6	704.7	706.2	681.1	643.6	642.2	651.9	656.1	651.9	650.5	674.1
32.5°	654.7	649.1	647.8	625.5	590.8	582.5	590.8	599.1	608.8	622.8	650.5
35°	588.1	601.9	610.2	590.8	549.0	524.0	514.3	499.0	490.7	490.7	522.7
37.5°	535.2	567.2	579.6	561.6	515.7	481.0	464.3	461.5	462.9	468.5	499.0
40°	517.2	540.8	551.9	533.7	488.0	455.9	446.3	443.4	446.3	454.5	485.1
42.5°	506.0	522.7	521.2	499.0	461.5	439.2	433.6	430.9	433.6	442.1	475.4
45°	496.2	507.4	496.2	469.9	435.1	423.9	425.3	423.9	426.7	435.1	467.1
47.5°	488.0	492.1	478.2	451.8	415.6	412.9	418.4	422.7	425.3	432.3	465.7
50°	475.4	475.4	462.9	435.1	398.9	400.3	407.3	417.1	418.4	426.7	453.2
52.5°	460.1	458.7	450.3	423.9	385.0	389.2	389.2	400.3	403.1	412.9	440.7
55°	447.6	444.8	440.7	415.6	372.6	379.4	375.3	379.4	386.4	396.2	426.7
57.5°	436.5	430.9	430.9	408.6	362.8	365.6	355.8	361.4	369.8	378.1	410.0
60°	425.3	419.8	422.7	398.9	347.6	344.7	340.6	351.7	354.4	364.2	396.2
62.5°	412.9	408.6	410.0	387.9	336.4	329.4	329.4	339.1	340.6	354.4	385.0
65°	403.1	397.6	396.2	376.7	323.9	315.5	319.7	323.9	326.6	340.6	369.8
67.5°	393.4	382.3	382.3	367.0	310.0	301.7	310.0	308.5	312.8	325.3	348.9
70°	380.9	365.6	367.0	360.0	296.1	286.4	293.3	291.9	294.7	303.0	326.6
72.5°	361.4	348.9	351.7	348.9	282.2	268.2	271.1	271.1	271.1	278.1	303.0
75°	336.4	326.6	335.0	342.0	265.5	246.1	248.8	248.8	244.6	248.8	279.3
77.5°	305.8	300.3	328.1	318.3	246.1	222.5	222.5	219.6	211.3	216.9	250.2
80°	272.5	268.2	303.0	266.9	223.8	193.2	190.4	183.4	175.2	179.3	212.7
82.5°	237.7	233.5	254.3	204.4	193.2	159.8	152.9	140.4	132.1	136.2	166.8
85°	194.6	194.6	196.0	154.3	147.4	122.4	113.9	97.4	87.6	90.3	119.5
87.5°	139.0	143.1	132.1	105.7	87.6	68.1	62.6	52.8	44.5	51.5	62.6
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°	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3	8543.3
2.5°	7343.7	7496.6	7670.3	7892.8	8083.2	8395.9	8696.2	8876.9
5°	5490.8	5745.1	6062.0	6469.3	6848.8	7418.7	7984.4	8347.3
7.5°	3929.7	4202.1	4544.1	5052.9	5589.3	6316.4	7064.2	7498.0
10°	3251.3	3530.7	3818.5	4161.8	4601.1	5392.1	6276.1	6765.5
12.5°	2689.8	2988.7	3298.6	3660.0	4067.2	4773.4	5792.4	6355.4
15°	2058.7	2392.3	2757.9	3215.2	3725.3	4541.4	5672.8	6284.5
17.5°	1410.9	1783.4	2232.3	2796.8	3420.9	4466.3	5886.9	6591.6
20°	971.7	1242.8	1722.3	2383.9	3134.5	4456.5	6298.4	7181.1
22.5°	813.2	934.1	1284.5	2004.5	2919.1	4576.1	6936.5	8008.1
25°	752.0	824.3	1025.8	1675.1	2762.1	4851.3	7814.9	9078.5
27.5°	715.8	781.2	931.3	1459.6	2638.3	5171.0	8669.8	10115.4
30°	729.8	796.5	904.8	1349.8	2470.2	5438.0	9428.7	10924.5
32.5°	657.5	686.7	775.6	1252.4	2349.2	5661.7	10093.3	11594.5
35°	560.2	611.7	692.2	1206.5	2352.1	5811.8	10817.4	12450.7
37.5°	533.7	585.2	643.6	1190.0	2383.9	5971.7	11648.6	13454.4
40°	517.2	564.4	614.4	1180.1	2414.5	6117.7	12463.3	14447.0
42.5°	506.0	549.0	611.7	1146.7	2429.8	6248.3	13133.3	15290.7
45°	504.6	549.0	622.8	1113.5	2453.4	6388.7	13694.9	15914.8
47.5°	506.0	567.2	601.9	1073.2	2453.4	6623.7	14353.7	16472.2
50°	500.4	597.7	579.6	1016.1	2396.5	7068.4	15257.3	17218.6
52.5°	497.6	593.6	536.6	928.6	2297.7	7774.6	16415.2	18247.3
55°	490.7	572.7	506.0	797.9	2182.4	8544.7	17655.1	19463.6
57.5°	483.7	507.4	489.3	684.0	2004.5	9086.8	18508.6	20413.0
60°	542.2	443.4	475.4	628.4	1766.7	9235.5	18475.3	20791.1
62.5°	501.8	415.6	457.4	615.7	1600.0	8818.6	17621.8	20586.7
65°	393.4	397.6	439.2	651.9	1555.6	7713.4	16109.4	19642.9
67.5°	360.0	379.4	421.2	697.8	1559.6	6176.0	13849.1	17587.0
70°	339.1	360.0	400.3	721.4	1570.8	4603.8	10949.5	14324.6
72.5°	315.5	333.6	376.7	725.6	1498.5	3344.4	8439.0	10532.5
75°	287.8	304.4	343.3	632.5	1241.3	2320.0	6455.5	7206.0
77.5°	255.7	268.2	301.7	488.0	921.6	1484.7	4845.7	5264.1
80°	218.2	225.2	253.1	357.3	631.1	928.6	3833.8	4224.4
82.5°	175.2	177.9	196.0	268.2	410.0	596.3	2567.5	2930.3
85°	123.7	123.7	134.8	194.6	279.3	378.1	1394.2	1545.7
87.5°	58.4	59.8	59.8	107.1	146.0	191.9	321.1	197.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)