

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: STREETWORKS

Report Number: P324142

Luminaire Tested: **GAN-SA8D-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41984 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

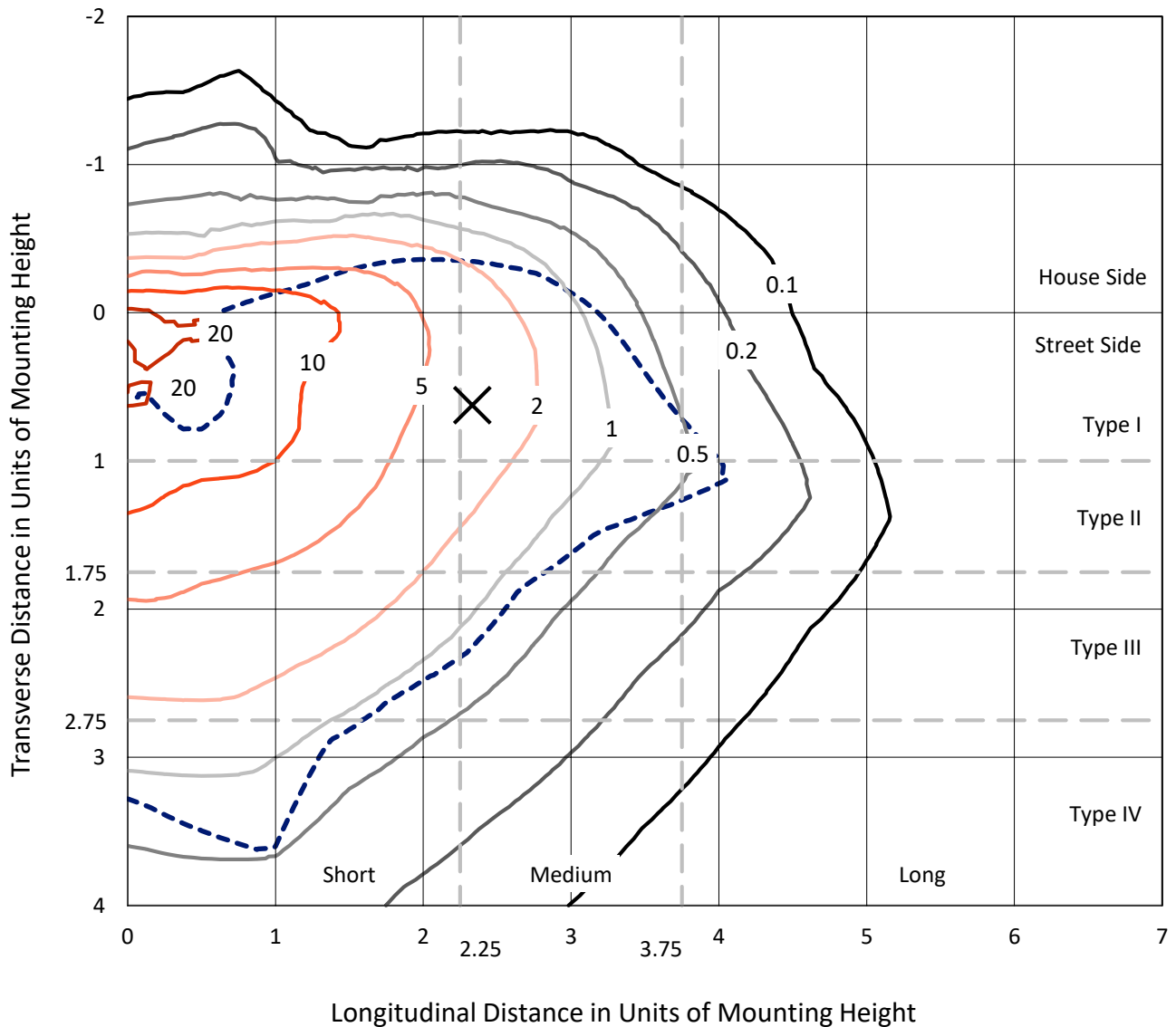
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

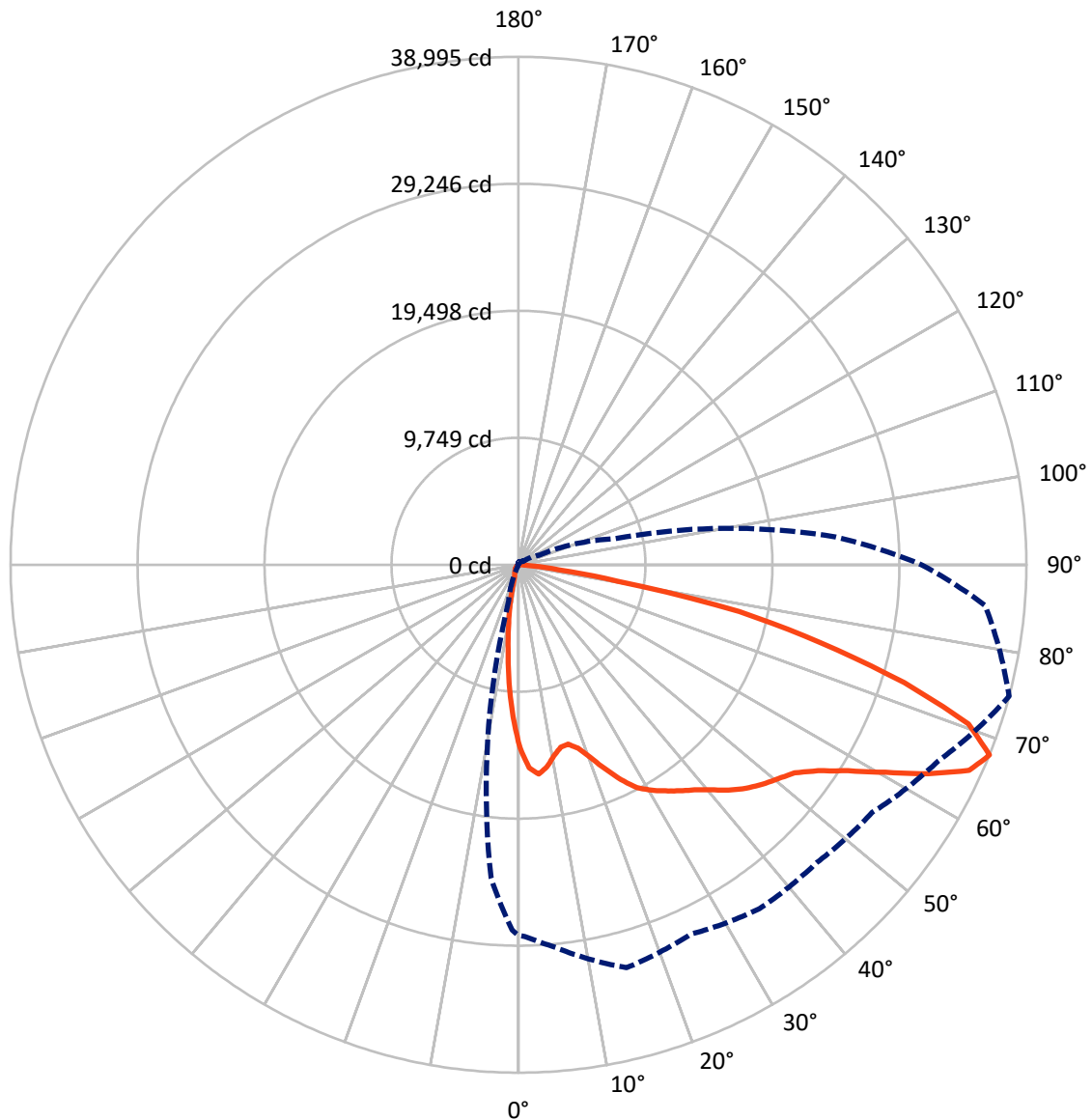
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6300.1	0.0	6300.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	35683.9	0.0	35683.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	41984.0	0.0	41984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.4	2.5
10°-20°	2103.7	5.0
20°-30°	2976.1	7.1
30°-40°	4375.8	10.4
40°-50°	6289.4	15.0
50°-60°	8853.9	21.1
60°-70°	10340.5	24.6
70°-80°	5275.4	12.6
80°-90°	700.8	1.7
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°	41984.0	100.0
0°-180°	41984.0	100.0

Coefficient of Utilization

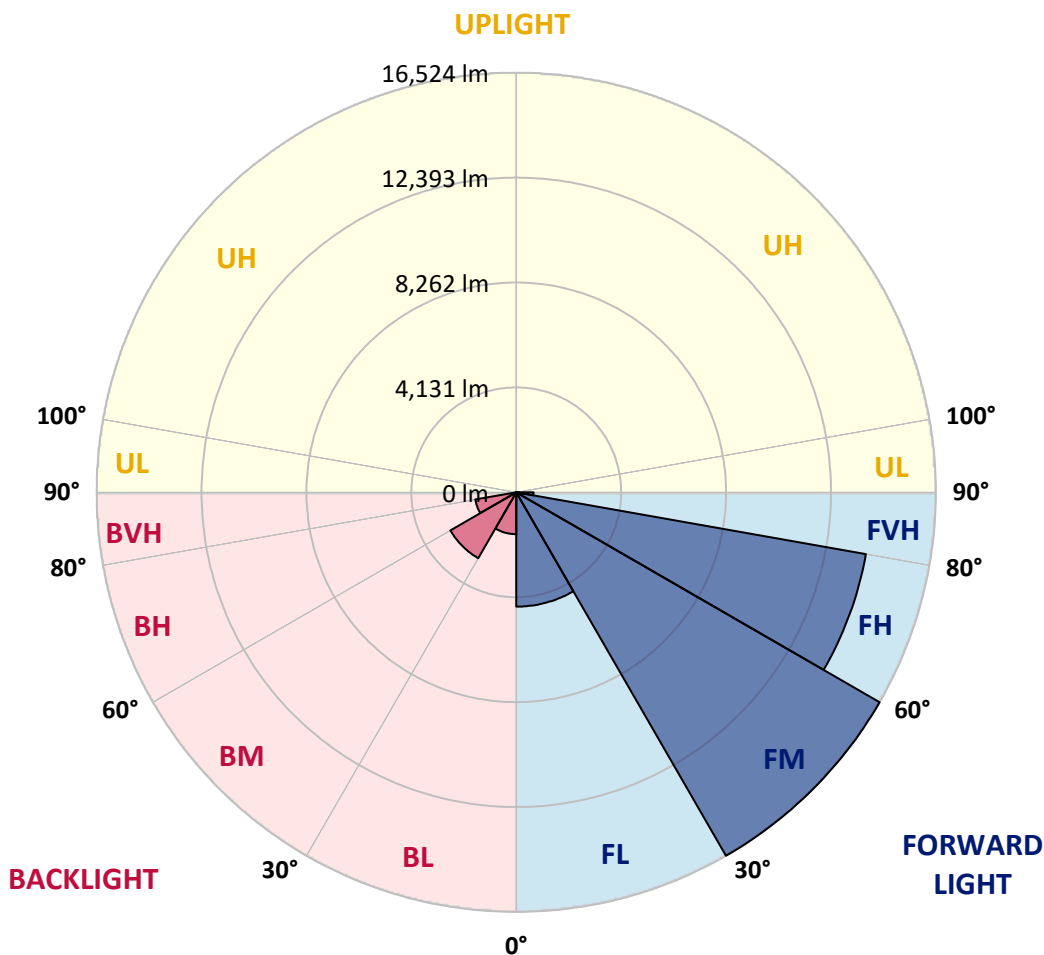


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4500.7	10.7			
FM (30°-60°)	16524.2	39.4			
FH (60°-80°)	13979.5	33.3			G5
FVH (80°-90°)	679.5	1.6			G4/750
BL (0°-30°)	1647.6	3.9	B3/2500		
BM (30°-60°)	2994.9	7.1	B3/5000		
BH (60°-80°)	1636.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9
2.5°	15268.3	15292.1	15415.4	15701.8	16014.1	16037.9	16248.8	16032.0	15958.4	15608.4	15246.4
5°	15383.6	15475.1	15898.7	16740.0	17469.9	17704.6	17871.7	17446.0	16998.6	16143.4	15230.5
7.5°	14454.8	14608.0	15274.2	16853.4	18158.0	18734.8	18844.2	18177.9	17082.1	15674.0	14301.7
10°	13265.5	13440.5	14244.0	16185.1	17977.1	18965.5	19116.7	18243.6	16668.4	14914.3	13297.3
12.5°	12302.9	12507.8	13329.2	15433.3	17354.6	18448.4	18746.7	18022.8	16310.4	14375.3	12611.2
15°	11859.4	12094.1	12957.2	14948.1	16664.4	17525.6	17772.2	17460.0	16111.5	14289.8	12452.1
17.5°	12114.0	12368.6	13259.5	14989.8	16016.1	16384.0	16582.9	16710.2	16111.5	14804.9	12917.5
20°	13158.1	13432.6	14375.3	15413.5	15479.1	15341.9	15554.7	16002.1	16298.5	15783.4	14035.2
22.5°	14602.0	14924.2	15988.2	16139.4	15216.6	14697.5	14725.3	15427.4	16638.6	17024.4	15586.5
25°	16362.1	16755.9	17837.8	17221.3	15325.9	14313.6	14303.7	14954.0	16970.7	18267.4	17314.8
27.5°	18110.3	18543.9	19494.5	18541.9	15777.4	14244.0	14224.1	14810.8	17294.9	19373.2	19202.2
30°	19576.1	19997.7	20817.1	19498.5	16264.7	14407.1	14311.6	14964.0	17487.8	20091.2	20578.5
32.5°	20769.4	21107.5	21769.8	20156.8	16785.7	14723.3	14516.5	15373.7	17816.0	20697.8	21843.4
35°	22082.0	22438.0	22702.5	20783.3	17370.5	15178.8	14882.4	16024.0	18321.1	21314.3	23229.6
37.5°	23579.6	23933.6	23901.8	21356.1	18112.3	15932.5	15743.6	17054.2	19106.7	21924.9	24776.9
40°	25045.4	25407.3	25148.8	21982.6	18983.4	17175.6	17036.3	18601.6	20158.8	22706.5	26590.7
42.5°	26417.7	26809.5	26256.6	22575.2	20021.6	18742.8	18981.4	20594.4	21475.4	23669.1	28153.9
45°	27523.5	27923.2	27185.4	23152.0	21115.4	20644.1	21362.1	22802.0	23058.5	24482.5	29210.0
47.5°	28326.9	28704.8	27829.7	23728.8	22515.6	22969.0	24220.0	25117.0	24488.5	25188.6	29959.8
50°	28840.1	29134.4	28018.7	24450.7	24353.3	25681.8	27197.3	27634.8	25834.9	25825.0	30870.7
52.5°	29166.2	29299.5	28157.9	25204.5	26270.5	28635.2	30112.9	30250.1	27221.2	26525.1	32097.8
55°	30289.9	30397.3	29144.4	26117.4	27855.6	31222.7	32750.1	32622.8	28790.3	27895.4	33545.6
57.5°	32207.2	32320.5	31182.9	27430.0	29138.4	32821.7	34661.4	34890.1	30630.0	29820.6	35096.9
60°	33169.8	33380.6	32974.8	29092.6	30381.4	33844.0	35964.1	36694.0	32929.1	32358.3	36600.5
62.5°	32296.7	32602.9	33191.6	30936.3	31616.5	34406.8	36369.8	37340.3	35283.9	35315.7	37527.3
65°	30554.4	30799.1	31797.5	31946.6	32332.5	34337.2	35367.4	36437.4	36725.8	38032.4	37477.6
67.5°	28450.3	28541.7	29389.0	32026.2	31294.3	32244.9	32356.3	33147.9	35586.2	38995.0	35972.0
70°	25421.3	25471.0	26210.8	29363.1	26893.0	27101.8	26936.8	27097.8	30594.2	36650.2	32171.4
72.5°	20459.1	20584.4	21636.5	24385.1	19592.0	18989.4	20286.1	20214.5	23561.7	30964.1	23893.8
75°	15063.4	15280.2	16869.3	19641.7	13750.8	12438.2	13384.8	13637.4	16749.9	23951.5	14942.1
77.5°	10546.8	10707.9	12247.2	14438.9	9952.1	8894.1	8552.0	8852.3	11055.9	17326.7	7527.7
80°	6075.9	6135.5	7118.0	8337.2	6706.3	7672.9	6951.0	7157.8	6624.8	7708.7	3237.8
82.5°	3975.7	3985.6	4369.5	4962.1	4176.5	4852.8	3591.8	4592.2	4075.1	3096.6	1054.1
85°	2147.9	2159.9	2533.8	3522.2	2364.7	1336.5	785.6	1612.9	2519.9	710.0	288.4
87.5°	236.7	216.8	763.7	1280.8	656.3	121.3	41.8	181.0	403.7	45.7	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9
2.5°	15061.4	14896.4	14484.7	14049.1	13699.1	13370.9	13040.8	12637.0	12324.8	12261.2	12157.7
5°	14739.2	14216.2	13353.0	12485.9	11787.8	10906.8	10347.9	9912.3	9486.7	9460.9	9375.4
7.5°	13613.6	12925.4	11710.2	10511.0	9528.5	8689.2	7842.0	7275.2	6829.7	6672.5	6579.1
10°	12531.6	11758.0	10240.5	8872.2	7995.1	7253.3	6656.6	6064.0	5527.0	5157.0	4990.0
12.5°	11775.9	10920.7	9248.1	8068.7	7440.2	6736.2	6008.3	5268.4	4649.9	4204.4	3931.9
15°	11483.5	10570.6	8915.9	7750.5	6974.8	6083.8	5153.1	4307.8	3621.7	3217.9	2973.3
17.5°	11831.6	10769.5	8890.1	7362.7	6278.7	5171.0	4142.7	3144.3	2498.0	2191.7	2034.6
20°	12714.6	11402.0	8880.1	6887.3	5451.4	4089.0	2806.2	2068.4	1676.6	1505.5	1432.0
22.5°	13963.6	12209.4	8959.7	6418.0	4590.2	2921.6	1937.1	1519.5	1318.6	1227.1	1185.3
25°	15570.6	13343.1	9184.4	5992.4	3780.8	2179.8	1509.5	1272.9	1131.6	1060.0	1030.2
27.5°	17283.0	14647.8	9534.5	5622.4	3122.5	1738.2	1292.7	1089.9	988.4	938.7	910.9
30°	18695.0	16159.3	9888.5	5210.7	2645.1	1515.5	1183.4	994.4	877.1	845.3	819.4
32.5°	19930.1	17302.8	10139.1	4838.8	2332.9	1346.4	1070.0	889.0	809.5	747.8	720.0
35°	21208.9	18255.5	10131.1	4578.3	2118.1	1219.2	974.5	795.5	700.1	628.5	606.6
37.5°	22593.1	19331.5	9958.1	4355.5	2024.6	1117.7	920.8	745.8	650.3	578.8	550.9
40°	24214.0	20461.1	9781.1	4146.7	1998.8	1036.2	883.0	706.0	604.6	535.0	507.2
42.5°	25793.2	21479.4	9626.0	3991.6	1887.4	1034.2	849.2	676.2	568.8	501.2	469.4
45°	27056.1	22428.1	9596.1	3898.1	1770.1	1070.0	831.3	656.3	541.0	473.3	443.5
47.5°	28106.2	23458.3	9787.0	3832.5	1658.7	976.5	875.1	642.4	515.1	449.5	415.7
50°	29355.2	24723.2	10236.5	3725.1	1541.3	879.1	1002.4	646.4	493.2	425.6	389.8
52.5°	31097.4	26473.4	10896.8	3544.1	1380.2	789.6	986.5	650.3	469.4	399.8	364.0
55°	33050.4	28659.1	11606.8	3243.8	1155.5	672.2	845.3	622.5	423.6	371.9	338.1
57.5°	35102.9	30641.9	12028.5	2885.8	918.8	580.7	676.2	566.8	373.9	334.1	312.2
60°	35425.1	31395.7	11835.5	2446.3	729.9	505.2	501.2	576.8	334.1	294.3	278.4
62.5°	34623.6	30449.0	10902.8	2054.5	610.6	443.5	411.7	503.2	302.3	262.5	246.6
65°	33082.2	27889.4	9391.3	1851.6	566.8	379.9	342.1	354.0	264.5	228.7	214.8
67.5°	30938.3	24472.6	7710.7	1736.3	560.9	326.2	292.4	268.5	228.7	198.9	187.0
70°	26554.9	20387.5	6151.5	1672.6	544.9	274.5	246.6	218.8	190.9	169.1	159.1
72.5°	19544.3	14446.9	4785.1	1603.0	548.9	218.8	214.8	181.0	153.1	131.3	127.3
75°	11292.6	8253.7	3138.4	1298.7	523.1	169.1	179.0	127.3	107.4	91.5	91.5
77.5°	6018.2	5033.7	1195.3	541.0	190.9	107.4	101.4	75.6	67.6	55.7	53.7
80°	2623.3	2215.6	360.0	151.2	105.4	57.7	37.8	33.8	29.8	23.9	21.9
82.5°	928.8	801.5	117.3	73.6	45.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	210.8	151.2	0.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9
2.5°	11946.9	11903.2	11644.6	11654.6	11700.3	11765.9	11610.8	11682.4	11875.3	12060.3	12129.9
5°	9238.1	9248.1	9091.0	9188.4	9275.9	9335.6	9085.0	9089.0	9242.1	9450.9	9560.3
7.5°	6509.4	6493.5	6501.5	6734.2	6899.3	6779.9	6873.4	6549.2	6569.1	6718.3	6606.9
10°	4838.8	4620.1	4496.8	4671.8	4852.8	4787.1	4626.0	4520.6	4594.2	4759.3	4747.3
12.5°	3802.6	3488.4	3303.5	3178.2	3327.3	3204.0	3200.0	3108.5	3009.1	3027.0	3291.5
15°	2859.9	2631.2	2412.5	2211.6	2207.6	2165.8	1953.0	1714.4	1694.5	1706.4	1843.6
17.5°	1967.0	1889.4	1799.9	1626.9	1581.1	1406.1	1199.3	1103.8	1056.1	1077.9	1123.7
20°	1382.2	1352.4	1362.4	1268.9	1203.2	1036.2	914.9	877.1	869.1	891.0	912.9
22.5°	1145.6	1091.9	1085.9	1044.1	978.5	857.2	791.6	769.7	759.7	779.6	795.5
25°	1002.4	948.7	926.8	900.9	831.3	747.8	708.0	688.1	678.2	690.1	700.1
27.5°	883.0	833.3	813.4	795.5	727.9	668.2	636.4	618.5	610.6	614.5	624.5
30°	793.5	749.8	723.9	702.1	644.4	602.6	574.8	556.9	548.9	548.9	558.9
32.5°	700.1	676.2	652.3	624.5	570.8	543.0	515.1	495.2	487.3	489.3	497.2
35°	582.7	574.8	580.7	554.9	509.1	485.3	457.4	435.6	429.6	431.6	439.5
37.5°	517.1	481.3	503.2	489.3	463.4	431.6	395.8	375.9	365.9	371.9	375.9
40°	475.3	431.6	415.7	429.6	425.6	373.9	342.1	322.2	314.2	316.2	320.2
42.5°	439.5	387.8	352.0	350.0	373.9	326.2	292.4	274.5	264.5	264.5	268.5
45°	405.7	350.0	306.3	272.5	314.2	276.4	244.6	228.7	216.8	216.8	218.8
47.5°	379.9	318.2	266.5	222.7	236.7	226.7	200.9	185.0	173.0	173.0	175.0
50°	356.0	286.4	230.7	187.0	177.0	187.0	163.1	145.2	137.2	135.2	139.2
52.5°	330.1	254.6	196.9	159.1	139.2	141.2	127.3	115.4	105.4	105.4	109.4
55°	304.3	228.7	171.0	135.2	115.4	105.4	101.4	93.5	85.5	85.5	89.5
57.5°	278.4	200.9	145.2	111.4	91.5	83.5	83.5	77.6	71.6	71.6	75.6
60°	254.6	173.0	119.3	91.5	71.6	69.6	71.6	65.6	61.7	61.7	65.6
62.5°	226.7	147.2	97.5	75.6	57.7	55.7	61.7	57.7	53.7	53.7	57.7
65°	192.9	125.3	77.6	57.7	43.8	43.8	51.7	47.7	43.8	43.8	47.7
67.5°	163.1	105.4	59.7	41.8	31.8	33.8	43.8	39.8	37.8	37.8	41.8
70°	135.2	81.5	41.8	25.9	17.9	25.9	33.8	33.8	33.8	33.8	37.8
72.5°	101.4	55.7	23.9	9.9	8.0	17.9	27.8	31.8	29.8	29.8	35.8
75°	65.6	31.8	8.0	0.0	0.0	9.9	21.9	25.9	25.9	23.9	29.8
77.5°	37.8	9.9	0.0	0.0	0.0	0.0	13.9	11.9	9.9	8.0	13.9
80°	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9	14084.9
2.5°	12410.3	12645.0	12975.1	13325.2	13864.2	14291.8	14711.4	15071.4	15210.6	15268.3
5°	9822.8	10166.9	10650.2	11270.7	12243.3	13118.3	14005.4	14898.3	15286.2	15383.6
7.5°	7048.4	7488.0	8102.5	8880.1	10019.7	11153.4	12392.4	13703.1	14303.7	14454.8
10°	5216.7	5753.7	6457.7	7277.1	8365.0	9530.5	10880.9	12378.5	13064.6	13265.5
12.5°	3701.2	4427.1	5369.8	6366.3	7309.0	8349.1	9715.4	11366.2	12086.1	12302.9
15°	2173.8	2875.9	3991.6	5326.1	6533.3	7587.4	8975.6	10847.1	11640.6	11859.4
17.5°	1247.0	1597.0	2440.3	3927.9	5566.7	7026.5	8742.9	10976.4	11911.1	12114.0
20°	952.7	1064.0	1406.1	2529.8	4437.1	6475.6	8742.9	11708.3	12859.8	13158.1
22.5°	833.3	914.9	1054.1	1509.5	3265.7	5885.0	8844.3	12766.3	14271.9	14602.0
25°	739.8	813.4	932.8	1135.6	2227.5	5182.9	9085.0	14065.0	15934.5	16362.1
27.5°	662.3	731.9	839.3	994.4	1523.4	4335.7	9409.2	15588.5	17768.2	18110.3
30°	592.7	658.3	755.8	865.1	1175.4	3375.0	9685.6	17024.4	19208.1	19576.1
32.5°	527.0	586.7	674.2	755.8	962.6	2496.0	9715.4	18162.0	20403.4	20769.4
35°	465.4	519.1	598.6	662.3	797.5	1970.9	9252.1	19148.5	21598.7	22082.0
37.5°	405.7	457.4	527.0	574.8	702.1	1607.0	8544.0	20248.3	23132.1	23579.6
40°	350.0	395.8	467.4	499.2	664.3	1235.1	7774.3	21401.8	24635.7	25045.4
42.5°	298.3	342.1	411.7	473.3	582.7	922.8	6943.0	22483.8	25988.1	26417.7
45°	248.6	294.3	364.0	501.2	483.3	690.1	6054.0	23201.7	27056.1	27523.5
47.5°	200.9	252.6	348.0	477.3	385.8	507.2	5350.0	23881.9	27865.5	28326.9
50°	161.1	212.8	391.8	425.6	316.2	387.8	5055.6	24490.5	28396.6	28840.1
52.5°	131.3	179.0	369.9	326.2	264.5	320.2	5214.7	25476.9	28887.8	29166.2
55°	109.4	141.2	222.7	226.7	224.7	272.5	5411.6	26893.0	30158.7	30289.9
57.5°	95.5	113.4	155.1	175.0	188.9	242.6	5415.6	28925.6	32125.6	32207.2
60°	81.5	99.4	129.3	141.2	163.1	216.8	5218.7	29635.6	32899.3	33169.8
62.5°	71.6	87.5	107.4	117.3	137.2	194.9	4757.3	28607.4	31837.2	32296.7
65°	63.6	79.6	89.5	99.4	121.3	175.0	3997.6	26550.9	30075.1	30554.4
67.5°	55.7	69.6	79.6	89.5	109.4	155.1	2943.5	24162.3	28052.5	28450.3
70°	49.7	61.7	71.6	79.6	95.5	131.3	1786.0	20502.9	25256.2	25421.3
72.5°	47.7	55.7	65.6	71.6	83.5	115.4	904.9	15067.4	20190.6	20459.1
75°	41.8	49.7	59.7	63.6	73.6	99.4	367.9	9896.4	14631.8	15063.4
77.5°	33.8	45.7	53.7	57.7	63.6	81.5	187.0	6324.5	10268.3	10546.8
80°	11.9	33.8	45.7	47.7	53.7	59.7	123.3	3462.6	5956.6	6075.9
82.5°	0.0	21.9	35.8	33.8	37.8	45.7	79.6	1646.8	3931.9	3975.7
85°	0.0	9.9	27.8	21.9	15.9	31.8	27.8	360.0	2062.4	2147.9
87.5°	0.0	0.0	2.0	9.9	8.0	11.9	4.0	2.0	187.0	236.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)