

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: P299379

Luminaire Tested: **GAA-AF-08-LED-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-08-LED-U-SLR-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34100.1 lumens
Efficiency: N/A
Efficacy: 76.6 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): 445
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: 28.75 FT

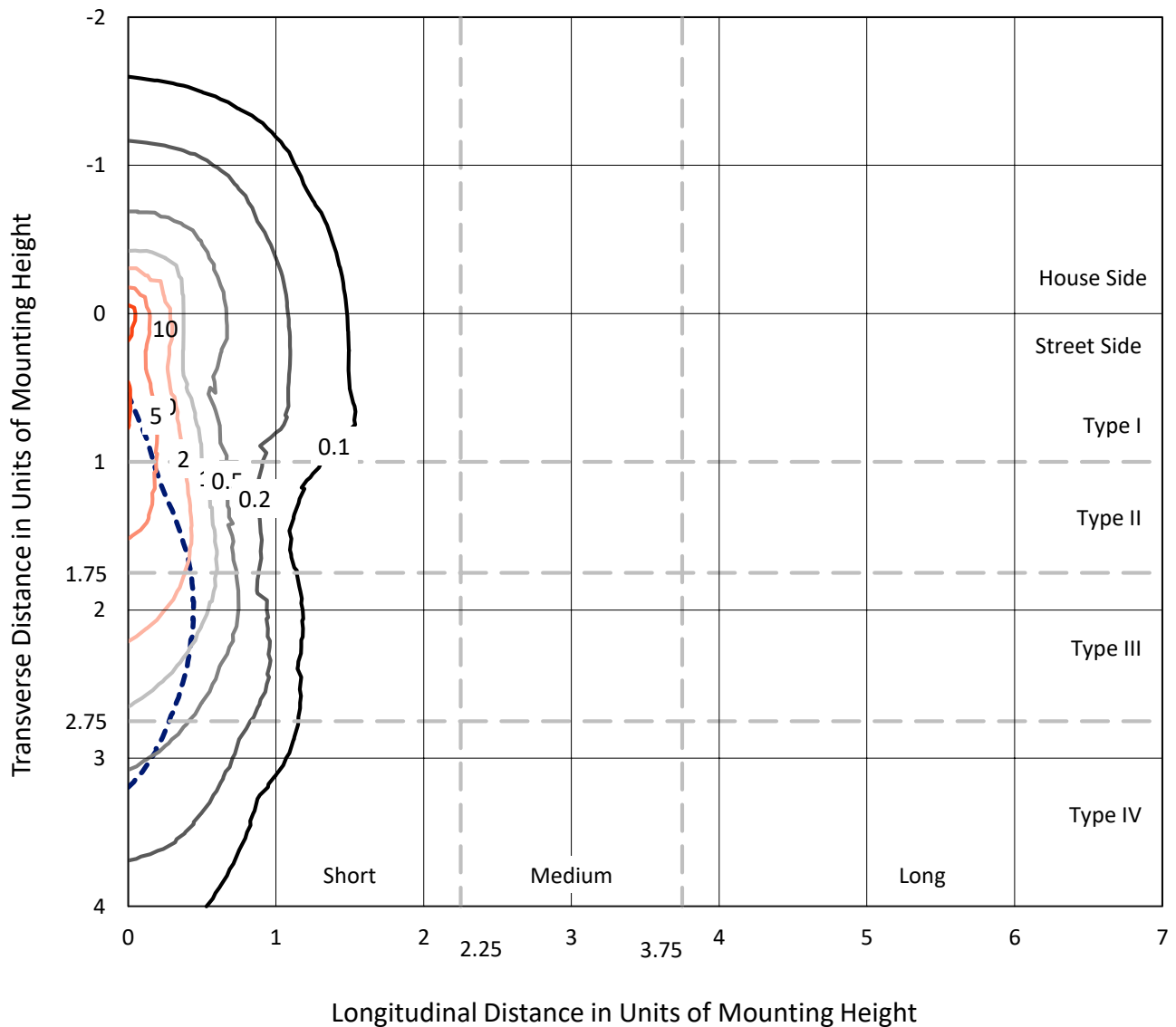


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

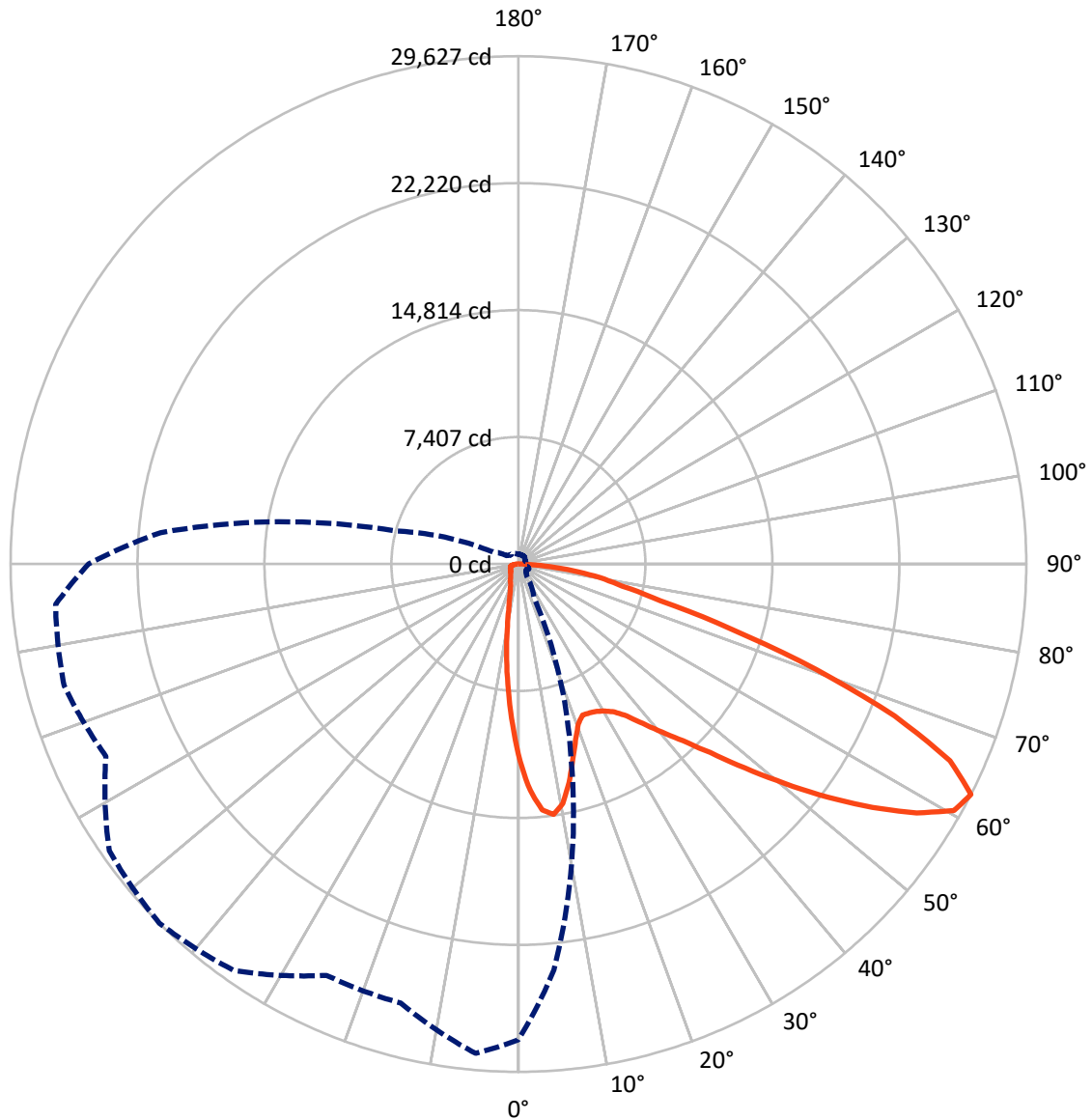


Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5643.1	0.0	5643.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28457.0	0.0	28457.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	34100.1	0.0	34100.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.7	2.5
10°-20°	1537.9	4.5
20°-30°	2242.2	6.6
30°-40°	3453.4	10.1
40°-50°	5082.5	14.9
50°-60°	7454.9	21.9
60°-70°	8333.5	24.4
70°-80°	4080.0	12.0
80°-90°	1077.2	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°	34100.1	100.0
0°-180°	34100.1	100.0

Coefficient of Utilization



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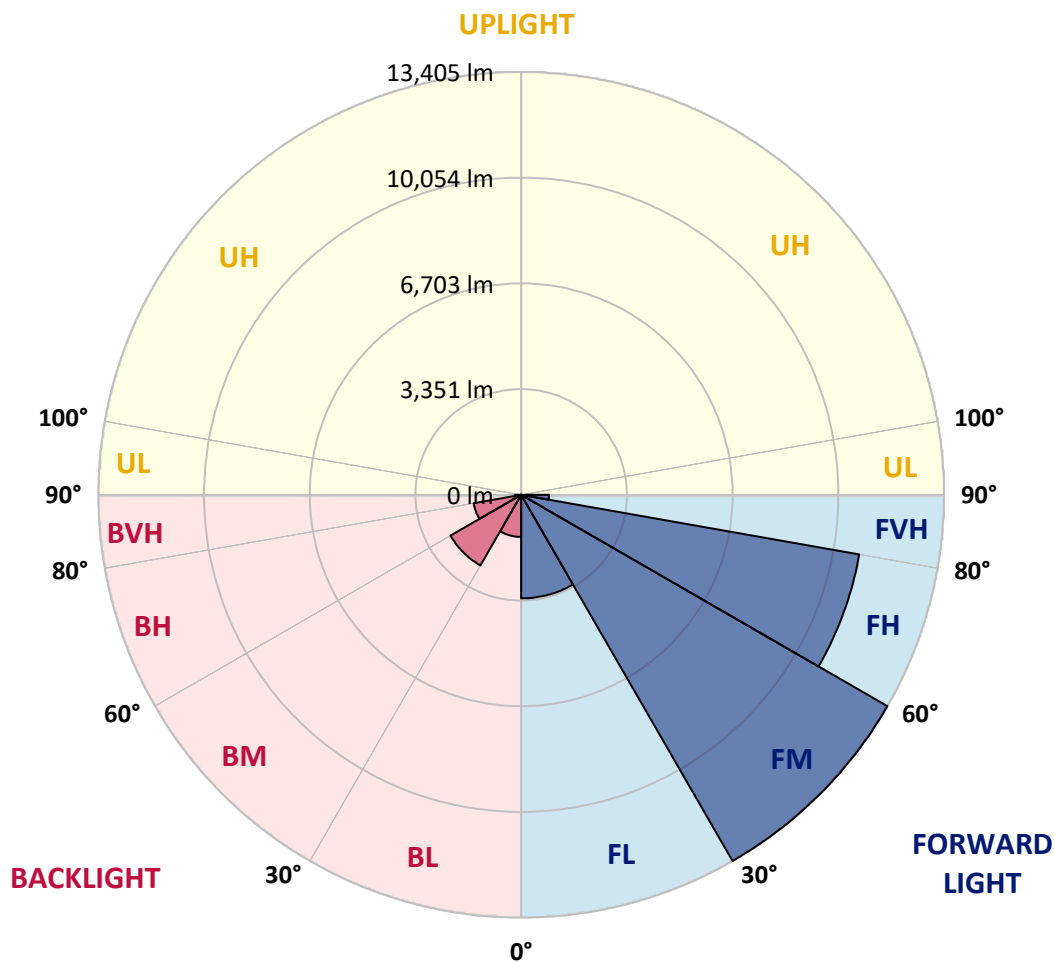
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3283.7	9.6			
FM (30°-60°)	13405.0	39.3			
FH (60°-80°)	10883.6	31.9			G4/12000
FVH (80°-90°)	884.6	2.6			G5
BL (0°-30°)	1335.1	3.9	B3/2500		
BM (30°-60°)	2585.6	7.6	B3/5000		
BH (60°-80°)	1529.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	192.6	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°	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1
2.5°	11970.5	11727.0	11321.9	10900.2	10643.7	10343.5	10109.2	9903.2	9490.6	9410.0	9483.2
5°	11256.6	10767.4	10004.2	9235.8	8723.9	8174.6	7747.3	7404.5	6881.3	6789.4	6900.0
7.5°	10111.4	9526.3	8517.9	7537.3	6813.8	6127.7	5666.9	5299.2	4890.6	4714.7	4725.4
10°	9123.4	8463.4	7271.2	6204.9	5612.4	5149.3	4761.2	4384.4	3970.1	3698.3	3623.4
12.5°	8570.1	7811.4	6437.0	5484.7	4935.4	4448.5	4030.3	3627.4	3184.7	2907.2	2828.9
15°	8474.8	7649.7	6124.3	5023.9	4335.6	3719.3	3226.1	2776.1	2320.4	2095.7	2048.6
17.5°	8889.1	7938.5	6022.7	4613.1	3771.5	3010.5	2405.0	1902.8	1531.6	1419.3	1409.6
20°	9683.5	8493.5	6009.7	4227.2	3214.8	2322.7	1675.8	1310.3	1147.5	1115.1	1117.4
22.5°	10799.2	9353.8	6170.8	3936.6	2702.9	1732.0	1259.8	1096.4	1032.8	1002.7	1002.7
25°	12242.3	10538.7	6542.0	3725.0	2258.6	1383.5	1111.7	1014.1	953.9	933.5	937.5
27.5°	13641.2	11691.3	6973.2	3558.1	1968.0	1255.8	1053.2	965.3	913.1	892.1	901.7
30°	14731.9	12715.0	7333.0	3331.1	1819.9	1220.1	1074.2	984.0	909.1	877.3	879.0
32.5°	15635.3	13611.1	7634.9	3167.7	1688.8	1045.9	926.1	886.4	877.3	839.9	821.1
35°	16790.1	14587.7	7837.5	3171.7	1627.0	933.5	824.6	755.3	704.8	661.7	661.7
37.5°	18143.6	15708.5	8053.2	3214.8	1604.8	867.7	789.4	719.6	673.0	631.6	624.2
40°	19481.7	16807.2	8250.1	3256.2	1591.2	828.5	761.0	697.4	654.3	612.9	601.5
42.5°	20620.1	17710.6	8426.0	3276.6	1546.4	824.6	740.6	682.1	641.3	595.9	585.1
45°	21461.7	18467.6	8615.5	3308.4	1501.6	839.9	740.6	680.4	629.9	586.8	575.4
47.5°	22213.0	19356.3	8932.2	3308.4	1447.1	811.5	765.0	682.1	628.2	582.8	573.7
50°	23219.7	20574.7	9532.0	3231.8	1370.5	781.4	805.8	674.7	611.2	575.4	564.1
52.5°	24606.7	22136.4	10484.3	3098.5	1252.4	723.5	800.2	671.3	594.2	556.7	543.6
55°	26247.2	23808.2	11522.8	2943.0	1075.9	682.1	772.3	661.7	575.4	534.0	520.9
57.5°	27527.5	24959.1	12253.7	2702.9	922.2	660.0	684.4	652.6	552.7	509.6	498.8
60°	28037.1	24914.2	12454.6	2382.3	847.3	641.3	598.1	730.9	534.0	490.9	477.8
62.5°	27761.9	23763.4	11892.2	2157.6	830.2	616.9	560.7	676.4	519.2	477.8	459.1
65°	26489.0	21723.8	10402.0	2097.4	879.0	592.5	536.3	530.6	498.8	459.1	440.4
67.5°	23716.3	18675.9	8328.4	2103.1	940.9	568.1	511.9	485.8	470.4	438.7	421.6
70°	19317.1	14765.9	6208.3	2118.4	972.7	539.7	485.8	457.4	440.4	408.6	397.2
72.5°	14203.5	11380.3	4510.4	2020.8	978.3	507.9	450.0	425.6	408.6	375.1	365.5
75°	9717.6	8705.2	3128.5	1674.1	852.9	463.1	410.3	388.2	376.8	335.4	329.7
77.5°	7098.7	6534.6	2002.1	1242.8	657.7	406.9	362.1	345.0	337.7	292.3	284.9
80°	5697.0	5169.8	1252.4	851.2	481.8	341.1	303.6	294.5	286.6	241.7	236.1
82.5°	3951.4	3462.2	804.1	552.7	362.1	264.4	240.0	236.1	224.7	183.9	178.2
85°	2084.4	1880.1	509.6	376.8	262.2	181.6	166.8	166.8	161.2	122.0	118.0
87.5°	266.1	433.0	258.8	196.9	144.1	80.6	80.6	78.9	84.6	69.2	60.2
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°	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1
2.5°	9310.7	9400.9	9314.7	9320.3	9415.7	9700.6	9829.9	9936.6	10051.3	10126.2	10159.7
5°	6748.5	6958.5	7029.4	7179.2	7400.6	7764.3	7908.5	8013.4	8083.2	8124.1	8141.1
7.5°	4615.3	4742.5	4884.9	5126.6	5608.4	5822.4	5917.7	5893.3	5815.0	5786.6	5758.8
10°	3479.2	3428.7	3402.1	3535.4	3925.3	4140.9	4208.5	4142.6	4099.5	4109.1	4155.7
12.5°	2695.5	2607.6	2500.9	2485.6	2742.6	2935.6	2978.7	2982.1	3061.0	3130.2	3233.5
15°	1964.6	1955.0	1902.8	1871.0	2016.8	2174.6	2193.3	2226.8	2298.3	2348.8	2438.5
17.5°	1385.2	1435.7	1477.2	1497.6	1608.2	1720.6	1700.2	1683.2	1670.1	1670.1	1713.2
20°	1117.4	1150.9	1203.6	1263.2	1376.1	1454.5	1404.0	1336.4	1287.6	1272.9	1278.5
22.5°	1006.7	1032.8	1062.9	1115.1	1216.7	1271.2	1216.7	1167.9	1119.1	1102.1	1096.4
25°	950.5	984.0	1012.4	1051.5	1126.5	1163.9	1111.7	1075.9	1045.9	1025.4	1010.1
27.5°	918.8	948.3	956.2	974.9	1038.5	1072.0	1045.9	1031.1	1012.4	993.7	974.9
30°	884.7	879.0	866.0	867.7	918.8	952.2	950.5	953.9	952.2	946.6	943.2
32.5°	808.1	796.7	785.4	796.7	843.3	873.4	875.6	883.0	883.0	881.3	896.1
35°	673.0	693.5	706.5	740.6	796.7	822.9	811.5	792.8	759.3	738.3	736.6
37.5°	622.5	625.9	648.6	695.2	757.6	781.4	765.0	721.8	699.1	695.2	700.8
40°	598.1	601.5	614.6	657.7	719.6	744.0	729.2	697.4	676.4	674.7	684.4
42.5°	581.1	585.1	592.5	622.5	673.0	703.1	704.8	682.1	657.7	660.0	669.1
45°	571.5	573.7	571.5	586.8	633.3	669.1	684.4	669.1	648.6	652.6	663.4
47.5°	569.8	564.1	556.7	560.7	609.5	644.7	663.4	657.7	648.6	652.6	661.7
50°	562.4	549.3	539.7	538.0	586.8	624.2	641.3	641.3	644.7	652.6	661.7
52.5°	539.7	524.9	524.9	519.2	571.5	607.2	618.6	620.3	625.9	639.0	652.6
55°	511.9	506.2	511.9	502.2	560.7	594.2	599.8	603.8	607.2	618.6	637.3
57.5°	487.5	480.1	493.1	489.2	551.0	581.1	581.1	588.5	588.5	603.8	618.6
60°	474.4	459.1	464.8	468.7	538.0	569.8	566.3	573.7	577.1	590.8	601.5
62.5°	457.4	444.3	444.3	453.4	523.2	552.7	551.0	556.7	571.5	575.4	586.8
65°	437.0	431.3	425.6	437.0	507.9	534.0	536.3	543.6	556.7	560.7	569.8
67.5°	416.0	418.2	406.9	418.2	494.8	515.3	515.3	530.6	536.3	543.6	552.7
70°	393.8	395.5	385.9	399.5	485.8	494.8	493.1	513.6	517.5	523.2	532.3
72.5°	365.5	365.5	362.1	380.8	470.4	474.4	470.4	487.5	489.2	494.8	498.8
75°	335.4	335.4	332.0	358.1	461.4	451.7	440.4	453.4	457.4	461.4	461.4
77.5°	296.2	300.2	300.2	332.0	429.0	442.6	404.6	412.6	418.2	419.9	414.3
80°	247.4	257.1	260.5	301.9	359.8	408.6	362.1	367.2	369.4	369.4	362.1
82.5°	189.5	206.0	215.6	260.5	275.8	342.8	315.0	320.6	315.0	303.6	300.2
85°	131.1	153.8	165.1	198.6	208.3	264.4	262.2	262.2	251.4	236.1	234.4
87.5°	71.5	84.6	91.9	118.0	142.4	178.2	192.9	187.3	178.2	168.5	170.8
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°	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1
2.5°	10336.1	10590.9	10997.8	11308.8	11622.1	11924.0	12250.3	12499.4	12711.1	12793.9	13044.7
5°	8311.9	8630.3	9014.5	9707.9	10199.4	10740.8	11367.3	12195.8	12514.1	12955.1	13676.4
7.5°	5876.9	6165.1	6783.7	7344.4	8040.1	8806.8	9651.8	10795.2	11213.5	11920.0	13095.3
10°	4388.4	4723.7	5220.3	5693.0	6305.9	7089.6	8060.5	9339.1	9847.0	10613.6	11967.1
12.5°	3535.4	3931.0	4457.6	4901.9	5376.3	5929.1	6872.2	8273.9	8954.9	9625.7	10993.9
15°	2716.0	3130.2	3620.0	4184.1	4706.7	5303.1	6291.1	7824.5	8607.6	9307.3	10474.6
17.5°	1880.1	2234.2	2851.0	3439.5	4109.1	4871.8	6130.0	7919.8	8855.0	9661.4	10564.8
20°	1333.0	1535.0	2041.2	2723.9	3558.1	4515.5	6099.9	8422.0	9638.7	10559.2	11142.0
22.5°	1120.8	1195.7	1490.2	2116.1	3079.7	4249.3	6204.9	9126.8	10695.9	11871.2	12062.4
25°	1021.5	1066.9	1220.1	1661.0	2654.1	4056.4	6559.0	10176.7	12004.5	13183.8	13149.7
27.5°	967.0	1014.1	1115.1	1402.3	2334.1	3936.6	6913.1	11421.7	13500.4	14608.2	14188.2
30°	950.5	1014.1	1120.8	1321.7	2105.4	3747.1	7203.6	12514.1	14651.3	15570.0	14660.9
32.5°	937.5	946.6	995.4	1139.5	1887.5	3525.8	7400.6	13494.8	15777.7	16484.8	15341.4
35°	757.6	804.1	883.0	1021.5	1760.3	3393.0	7400.6	14340.3	16887.7	17408.7	15990.0
37.5°	729.2	770.6	839.9	957.9	1688.8	3327.2	7252.4	15155.8	18021.6	18456.8	16524.0
40°	714.5	747.9	813.8	909.1	1658.8	3252.2	7036.8	15875.4	19129.3	19506.1	17022.8
42.5°	703.1	733.2	795.0	879.0	1619.6	3170.0	6862.6	16452.5	20091.2	20402.2	17498.9
45°	697.4	729.2	796.7	894.4	1540.7	3061.0	6804.7	17076.7	20882.3	21150.1	18014.2
47.5°	697.4	734.9	805.8	926.1	1447.1	2948.6	6986.3	17900.1	21630.2	21761.3	18621.4
50°	691.8	733.2	832.5	894.4	1310.3	2806.2	7413.6	18936.4	22440.0	22454.8	19390.3
52.5°	680.4	729.2	896.1	875.6	1152.6	2618.9	7991.3	20267.7	23638.0	23727.6	20593.4
55°	667.4	723.5	879.0	832.5	1023.7	2395.9	8463.4	21885.0	25321.1	25570.2	22363.4
57.5°	650.3	716.2	851.2	772.3	939.2	2108.8	8634.3	23069.9	26496.4	27122.3	24357.5
60°	635.6	710.5	768.4	736.6	886.4	1867.0	8304.0	22835.5	26415.8	27765.3	26125.2
62.5°	620.3	716.2	700.8	714.5	862.0	1711.5	7442.0	20958.9	25079.4	27101.9	27435.6
65°	603.8	665.7	661.7	695.2	856.9	1649.7	6169.1	18145.3	22496.2	25004.5	27744.8
67.5°	581.1	614.6	633.3	671.3	875.6	1595.2	4978.5	14967.9	18906.3	21860.6	26132.6
70°	556.7	585.1	605.5	641.3	864.3	1570.8	4140.9	11803.7	15002.0	17916.6	22951.9
72.5°	524.9	549.3	568.1	601.5	852.9	1557.7	3498.0	9505.9	11200.4	13309.2	18661.1
75°	487.5	509.6	523.2	556.7	817.2	1426.7	2750.0	8043.5	8381.2	9258.5	14863.0
77.5°	444.3	461.4	472.1	509.6	723.5	1186.6	1989.0	6204.9	6508.5	6721.8	11395.1
80°	393.8	410.3	416.0	451.7	599.8	927.8	1297.3	4583.0	4867.9	4916.7	7442.0
82.5°	335.4	352.4	352.4	385.9	490.9	667.4	851.2	3139.9	3196.1	3361.2	5260.0
85°	270.1	283.2	283.2	300.2	380.8	498.8	585.1	1576.5	1559.4	1780.8	4556.9
87.5°	192.9	202.6	211.7	215.6	271.8	329.7	352.4	480.1	316.7	363.8	2925.9
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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CATALOG NUMBER: GAA-AF-08-LED-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1	11521.1
2.5°	13234.3	13341.0	13232.0	13153.7	12814.3	12535.1	12161.7	11970.5
5°	14225.7	14497.5	14405.6	14075.9	13367.1	12570.3	11665.2	11256.6
7.5°	14105.9	14737.5	14752.3	14136.0	13091.8	11918.3	10692.5	10111.4
10°	13172.4	13980.0	14210.9	13612.8	12505.1	11193.0	9786.8	9123.4
12.5°	12130.0	12921.0	13097.5	12891.0	11965.4	10647.1	9221.0	8570.1
15°	11277.0	11631.7	11841.1	12021.6	11502.3	10429.8	9188.7	8474.8
17.5°	10757.8	10718.6	10778.8	11091.5	11179.4	10678.9	9676.2	8889.1
20°	10570.5	9969.0	9953.7	10384.9	11027.9	11273.6	10628.4	9683.5
22.5°	10673.8	9698.9	9575.1	10087.0	11108.5	12130.0	11876.9	10799.2
25°	11029.6	9721.6	9621.7	10117.1	11400.7	13043.0	13224.6	12242.3
27.5°	11590.3	9864.0	9732.3	10240.8	11788.9	13809.7	14552.0	13641.2
30°	12122.6	10111.4	9948.0	10484.3	12143.0	14113.3	15365.8	14731.9
32.5°	12769.5	10574.5	10287.3	10932.0	12581.7	14596.8	16091.0	15635.3
35°	13402.8	11233.9	10878.1	11623.8	13070.8	15198.9	16919.5	16790.1
37.5°	14098.6	12096.5	11802.0	12518.1	13740.5	15766.4	17976.7	18143.6
40°	14840.8	13240.0	12891.0	13822.8	14779.0	16479.2	19081.1	19481.7
42.5°	15588.8	14508.9	14092.9	15037.2	15920.2	17181.7	20025.4	20620.1
45°	16445.1	15886.7	15689.8	16711.3	17017.1	17851.3	20722.8	21461.7
47.5°	17442.7	17450.1	17766.8	18175.4	18123.2	18608.4	21424.2	22213.0
50°	18606.7	19401.1	20100.8	20372.1	19262.7	19422.1	22396.9	23219.7
52.5°	20004.9	21735.2	22601.2	22423.0	20490.7	20415.2	23937.6	24606.7
55°	21753.9	24206.0	25066.3	24938.6	21902.0	21768.7	25857.4	26247.2
57.5°	23778.1	26599.7	27390.7	26817.0	23596.5	23253.8	27445.2	27527.5
60°	25557.2	28496.8	29190.2	28554.6	25306.4	24833.6	28436.6	28037.1
62.5°	26546.9	29139.7	29627.2	28942.8	26477.6	26516.8	28653.9	27761.9
65°	26104.8	27514.4	27671.6	27615.5	26175.7	27493.4	27872.5	26489.0
67.5°	23682.8	23405.3	23669.7	24035.2	23589.2	26207.5	25707.0	23716.3
70°	19416.4	17892.2	18419.4	18664.5	18867.1	22552.4	22312.3	19317.1
72.5°	14632.6	12535.1	12951.1	12900.6	13837.5	18089.1	17352.5	14203.5
75°	10367.9	8499.2	8551.4	8531.0	9655.7	14152.5	12565.2	9717.6
77.5°	7254.1	6157.8	6186.1	6301.9	6491.4	10673.8	8977.0	7098.7
80°	4988.2	4673.2	4828.7	4838.4	4499.0	7170.2	6632.2	5697.0
82.5°	3715.3	3248.3	3210.8	3265.3	3525.8	5809.3	5096.6	3951.4
85°	3042.3	1923.2	1546.4	1938.5	3124.6	5753.1	3385.6	2084.4
87.5°	1713.2	913.1	412.6	765.0	1246.8	3808.9	978.3	266.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)