

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: P227942

Luminaire Tested: **ISS-AF-1200-LED-E1-T4W-7060-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-1200-LED-E1-T4W-7060-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW  
Light Source: (16) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8007.2 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
Input Voltage (V): 120  
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

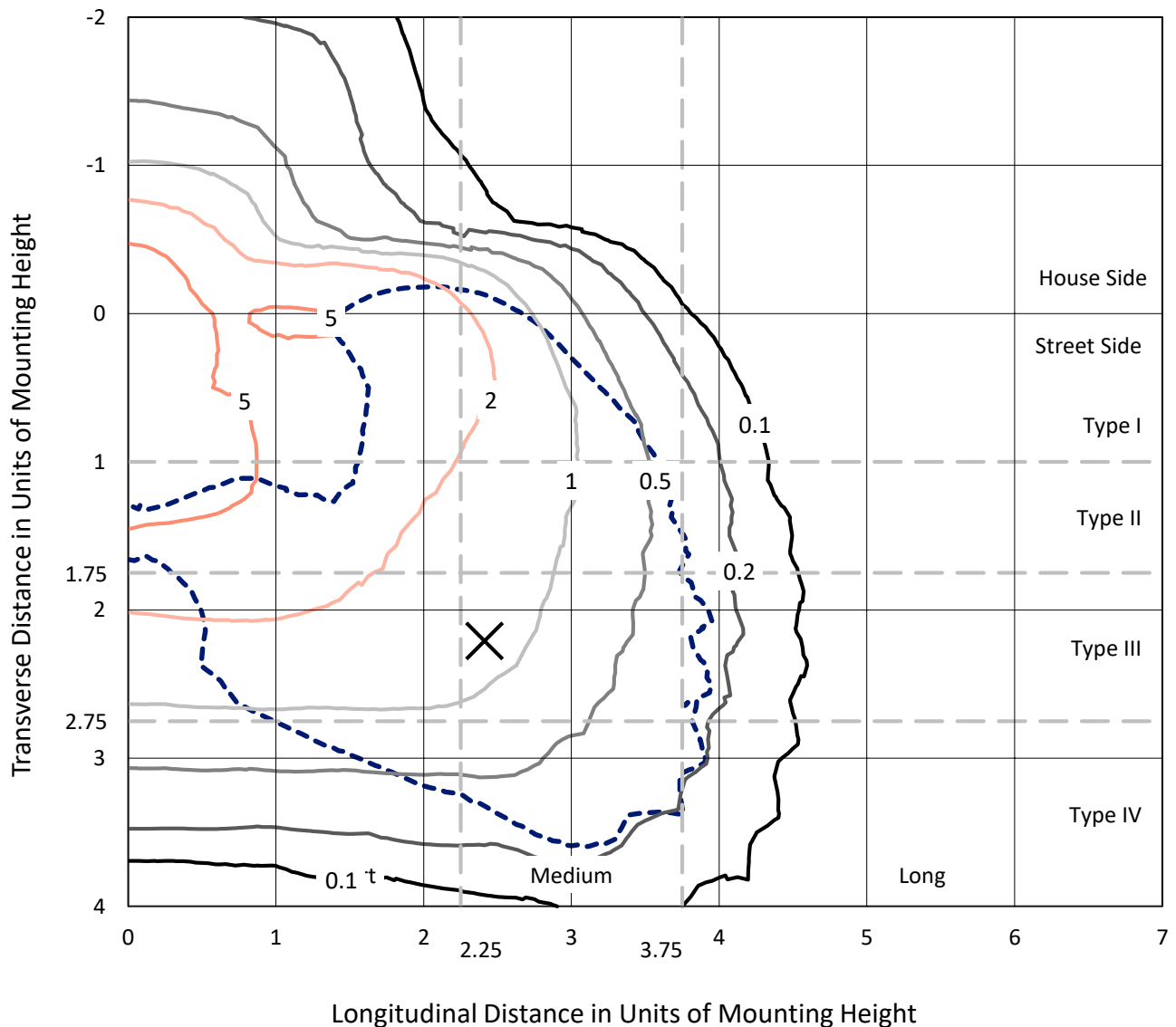


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

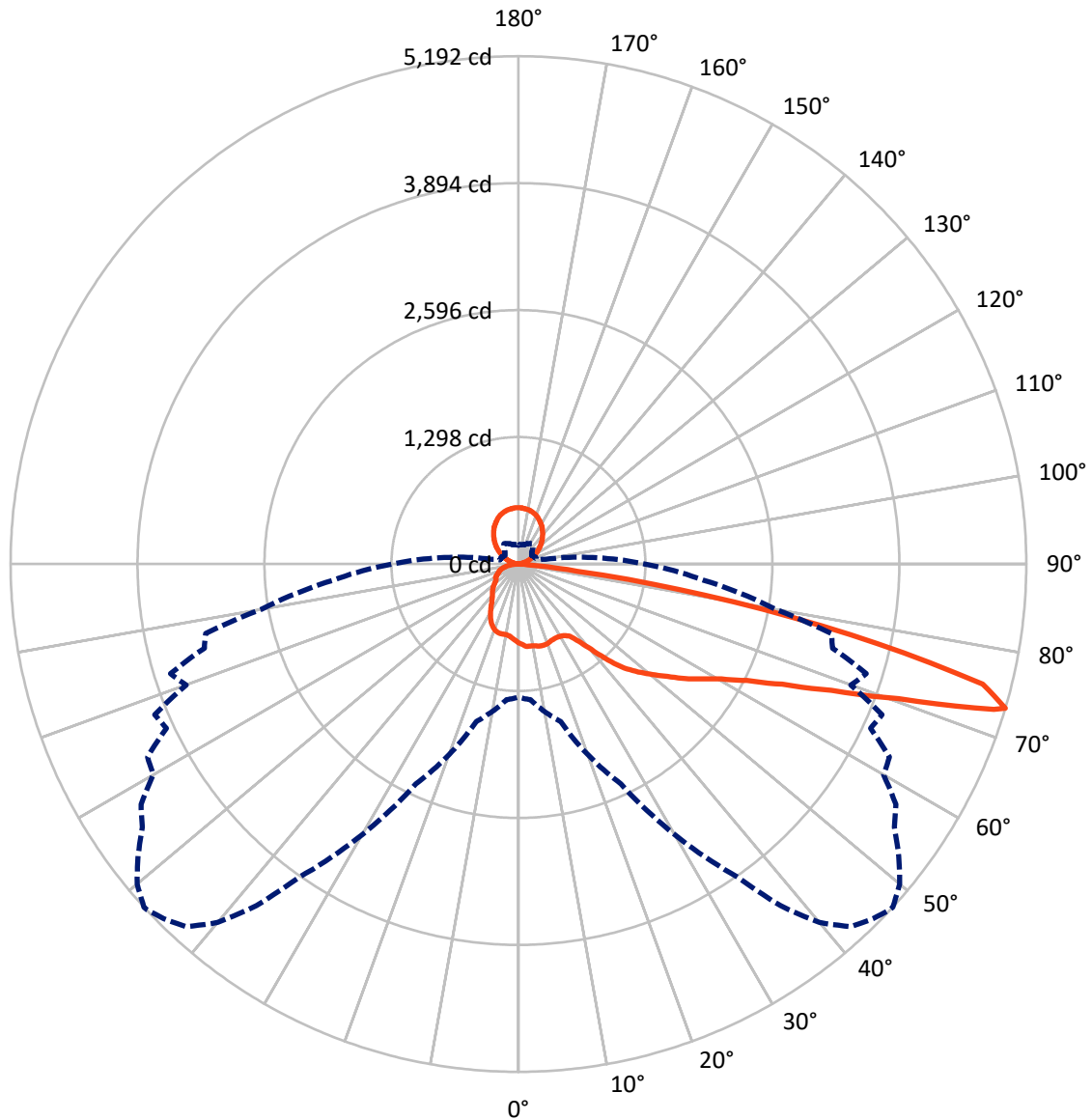


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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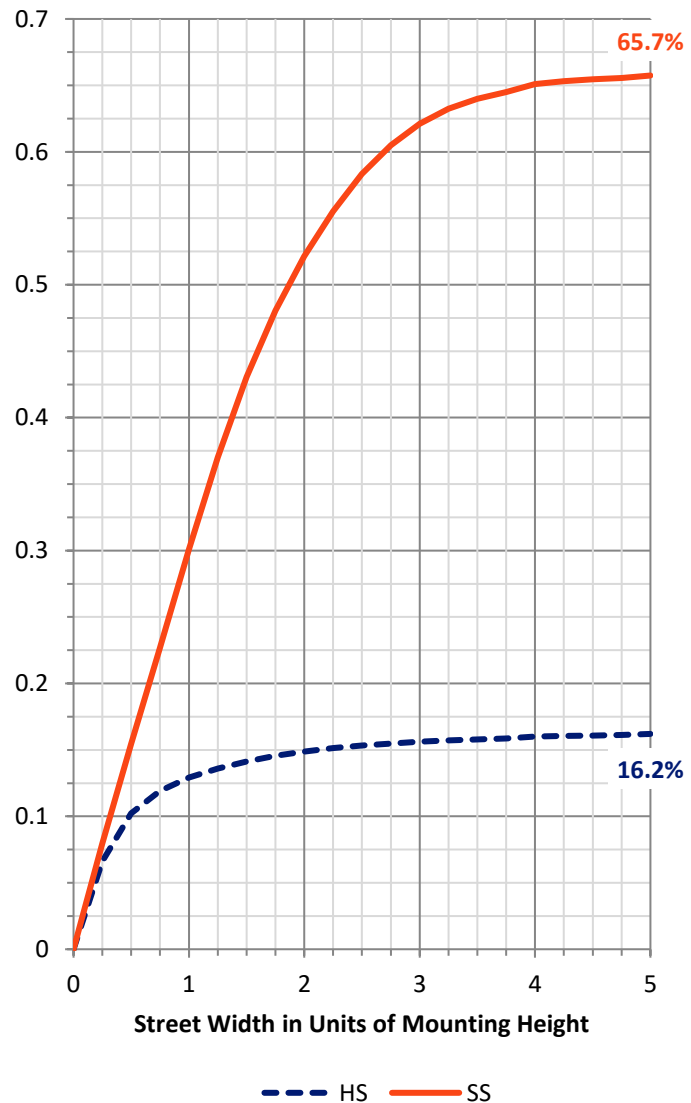
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1314.8	713.1	2027.9
	% Fixture	16.4	8.9	25.3
<b>Street Side</b>	Lumens	5266.2	713.1	5979.2
	% Fixture	65.8	8.9	74.7
<b>Total</b>	Lumens	6581.0	1426.2	8007.2
	% Fixture	82.2	17.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.0
10°-20°	229.0	2.9
20°-30°	352.0	4.4
30°-40°	513.5	6.4
40°-50°	846.6	10.6
50°-60°	1325.6	16.6
60°-70°	1798.2	22.5
70°-80°	1331.6	16.6
80°-90°	107.6	1.3
90°-100°	4.7	0.1
100°-110°	69.0	0.9
110°-120°	153.0	1.9
120°-130°	223.9	2.8
130°-140°	265.6	3.3
140°-150°	269.3	3.4
150°-160°	231.1	2.9
160°-170°	155.1	1.9
170°-180°	54.3	0.7
0°-90°	6581.0	82.2
0°-180°	8007.2	100.0



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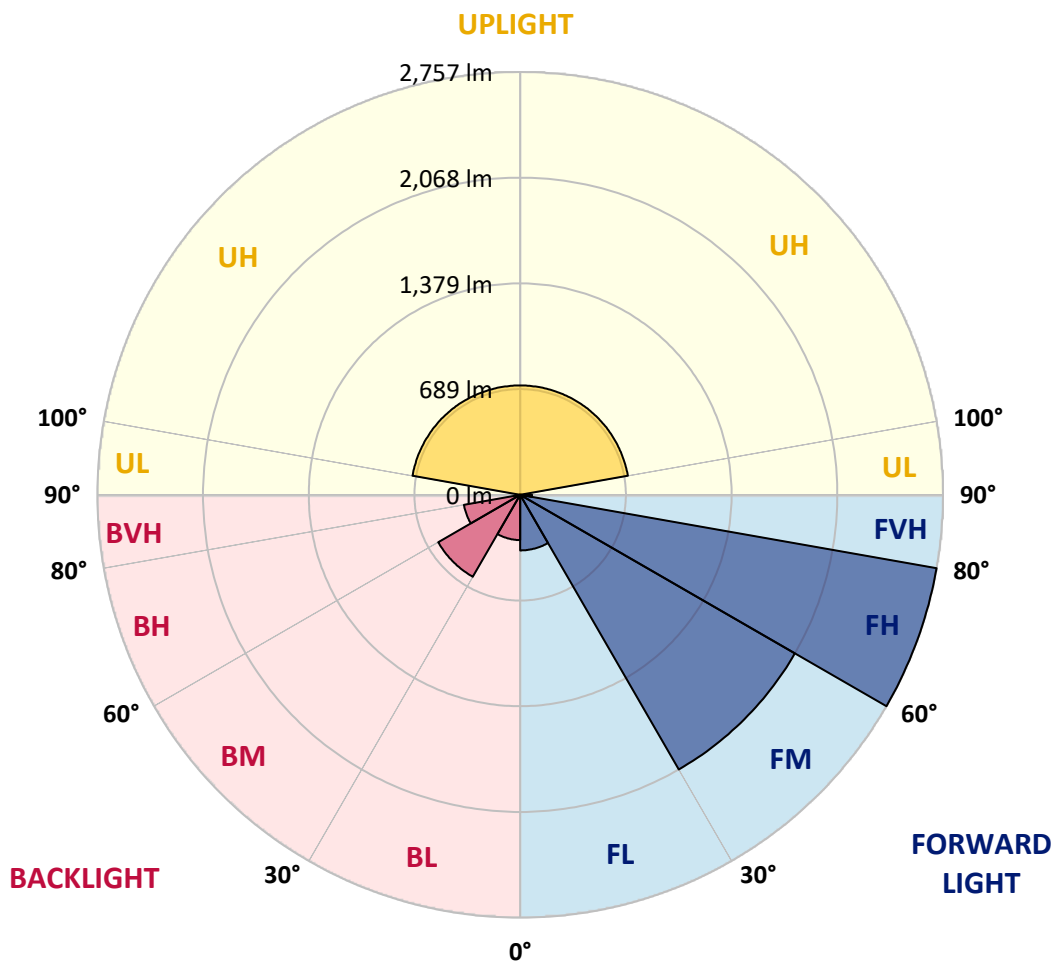
CATALOG NUMBER: ISS-AF-1200-LED-E1-T4W-7060-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.8	4.5			
FM	(30°-60°)	2068.3	25.8			
FH	(60°-80°)	2757.5	34.4			G2/5000
FVH	(80°-90°)	77.6	1.0			G1/100
BL	(0°-30°)	295.1	3.7	B1/500		
BM	(30°-60°)	617.4	7.7	B1/1000		
BH	(60°-80°)	372.3	4.7	B1/500		G1/500
BVH	(80°-90°)	30.0	0.4			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	8.9		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	855.9	853.8	847.3	845.1	838.6	834.2	832.0	829.9	836.4	832.0	825.5
5°	910.3	905.9	897.2	884.2	871.1	862.5	860.3	855.9	855.9	851.6	847.3
7.5°	949.4	947.2	934.1	914.6	892.9	877.7	869.0	862.5	864.6	860.3	847.3
10°	986.3	981.9	960.2	936.3	903.7	886.4	875.5	864.6	873.3	866.8	849.4
12.5°	1014.5	1010.2	979.8	949.4	912.4	892.9	882.0	875.5	884.2	879.8	860.3
15°	1029.7	1025.4	995.0	958.0	918.9	897.2	892.9	888.5	895.0	886.4	869.0
17.5°	1021.0	1021.0	992.8	953.7	921.1	899.4	892.9	888.5	897.2	888.5	869.0
20°	988.5	992.8	973.3	932.0	908.1	892.9	886.4	877.7	886.4	877.7	864.6
22.5°	947.2	951.5	940.7	903.7	886.4	875.5	873.3	864.6	871.1	864.6	851.6
25°	910.3	910.3	905.9	873.3	871.1	862.5	864.6	860.3	864.6	855.9	847.3
27.5°	912.4	912.4	895.0	862.5	860.3	860.3	860.3	860.3	862.5	855.9	847.3
30°	1040.6	1044.9	995.0	903.7	871.1	866.8	869.0	866.8	869.0	866.8	855.9
32.5°	1233.9	1233.9	1186.2	1044.9	929.8	901.6	890.7	888.5	882.0	879.8	871.1
35°	1425.1	1422.9	1375.2	1218.7	1073.2	1018.9	984.1	951.5	936.3	921.1	905.9
37.5°	1585.9	1579.4	1572.8	1394.7	1242.6	1179.6	1138.4	1090.6	1060.2	1034.1	999.3
40°	1735.8	1746.6	1770.5	1557.6	1412.1	1353.4	1312.2	1251.3	1220.9	1188.3	1147.0
42.5°	1942.2	1957.4	1959.5	1733.6	1566.3	1527.2	1494.6	1449.0	1416.4	1377.3	1340.4
45°	2142.0	2144.2	2150.7	1922.6	1755.3	1705.4	1681.5	1638.0	1596.7	1546.8	1516.4
47.5°	2278.9	2272.4	2300.6	2139.9	1976.9	1920.4	1885.7	1820.5	1757.5	1694.5	1648.9
50°	2446.2	2439.7	2439.7	2387.5	2233.3	2168.1	2107.3	1985.6	1918.3	1840.1	1774.9
52.5°	2593.9	2570.0	2585.2	2615.6	2502.7	2420.1	2313.6	2176.8	2087.7	1992.1	1909.6
55°	2795.9	2672.1	2706.9	2813.3	2769.9	2641.7	2500.5	2354.9	2252.8	2144.2	2068.2
57.5°	2726.4	2641.7	2743.8	2930.6	2928.5	2809.0	2689.5	2511.3	2409.2	2307.1	2213.7
60°	2476.6	2520.0	2741.6	3011.0	3021.9	2928.5	2830.7	2665.6	2585.2	2478.8	2385.3
62.5°	2283.2	2346.2	2650.4	3004.5	3128.3	3041.4	2961.0	2863.3	2806.8	2717.7	2622.1
65°	2272.4	2309.3	2604.8	2998.0	3278.2	3232.6	3195.7	3150.0	3139.2	3074.0	2963.2
67.5°	2376.7	2411.4	2683.0	3165.2	3499.8	3480.3	3534.6	3525.9	3573.7	3541.1	3449.8
70°	2172.4	2192.0	2526.5	3223.9	4006.0	4092.9	4214.5	4208.0	4310.1	4231.9	4125.5
72.5°	1525.1	1564.2	1859.6	2663.4	4016.8	4481.7	4764.2	5003.1	5113.9	5133.5	5083.5
73°	1362.1	1392.5	1666.3	2480.9	3908.2	4403.5	4783.7	5029.2	5127.0	5187.8	5192.1
75°	473.6	488.8	727.8	1503.3	3124.0	3843.0	4331.8	4553.4	4529.5	4707.7	4903.2
77.5°	152.1	154.2	189.0	388.9	1507.7	2385.3	2930.6	3134.8	3017.5	3210.9	3471.6
80°	93.4	97.8	123.8	176.0	395.4	723.4	1225.3	1533.7	1470.7	1651.1	1929.1
82.5°	56.5	58.7	76.0	108.6	158.6	176.0	230.3	312.8	384.5	462.7	606.1
85°	26.1	28.2	36.9	50.0	65.2	67.3	65.2	60.8	69.5	80.4	93.4
87.5°	0.0	0.0	2.2	4.3	2.2	0.0	0.0	0.0	0.0	2.2	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.2
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0





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**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	832.0	825.5	825.5	816.8	821.2	812.5	816.8	808.1	812.5	801.6	808.1
5°	845.1	834.2	834.2	821.2	823.4	808.1	814.7	797.3	806.0	786.4	799.5
7.5°	851.6	832.0	840.7	816.8	827.7	801.6	814.7	786.4	803.8	773.4	795.1
10°	860.3	832.0	847.3	821.2	834.2	803.8	821.2	786.4	808.1	771.2	790.8
12.5°	873.3	842.9	855.9	825.5	842.9	808.1	825.5	790.8	812.5	771.2	795.1
15°	882.0	851.6	864.6	834.2	847.3	808.1	829.9	788.6	812.5	769.0	795.1
17.5°	879.8	851.6	864.6	829.9	845.1	806.0	827.7	786.4	808.1	762.5	790.8
20°	871.1	847.3	855.9	825.5	838.6	799.5	819.0	777.7	801.6	756.0	784.3
22.5°	860.3	836.4	847.3	819.0	832.0	792.9	810.3	773.4	797.3	751.7	777.7
25°	853.8	834.2	840.7	812.5	829.9	795.1	812.5	771.2	797.3	751.7	782.1
27.5°	851.6	834.2	847.3	821.2	836.4	806.0	823.4	786.4	808.1	760.4	790.8
30°	864.6	849.4	860.3	838.6	851.6	821.2	838.6	803.8	825.5	779.9	814.7
32.5°	879.8	864.6	875.5	855.9	875.5	845.1	866.8	832.0	858.1	812.5	845.1
35°	912.4	895.0	910.3	888.5	910.3	886.4	910.3	873.3	905.9	860.3	895.0
37.5°	997.2	949.4	964.6	940.7	962.4	932.0	973.3	936.3	973.3	929.8	977.6
40°	1131.8	1047.1	1062.3	1012.4	1044.9	999.3	1049.3	1021.0	1071.0	1016.7	1077.5
42.5°	1307.8	1227.4	1212.2	1136.2	1164.4	1110.1	1160.1	1110.1	1177.5	1125.3	1201.4
45°	1468.6	1383.8	1359.9	1286.1	1305.6	1233.9	1296.9	1227.4	1316.5	1255.7	1351.3
47.5°	1601.1	1501.2	1481.6	1396.9	1431.6	1364.3	1442.5	1368.6	1477.3	1416.4	1527.2
50°	1722.7	1598.9	1594.6	1503.3	1562.0	1494.6	1605.4	1555.5	1661.9	1601.1	1731.4
52.5°	1861.8	1705.4	1727.1	1644.5	1738.0	1681.5	1809.6	1738.0	1877.0	1811.8	1955.2
55°	2009.5	1844.4	1900.9	1850.9	1961.7	1924.8	2033.4	1968.2	2105.1	2039.9	2192.0
57.5°	2172.4	2031.2	2131.2	2107.3	2205.0	2159.4	2281.1	2222.4	2359.3	2305.0	2457.0
60°	2385.3	2291.9	2389.7	2387.5	2472.2	2470.1	2548.3	2513.5	2643.9	2620.0	2759.0
62.5°	2661.2	2587.4	2691.7	2663.4	2765.5	2748.1	2843.7	2843.7	2937.1	2969.7	3108.8
65°	3032.7	2935.0	3058.8	3015.3	3117.5	3121.8	3182.6	3193.5	3306.5	3343.4	3462.9
67.5°	3536.7	3423.8	3521.5	3439.0	3556.3	3549.8	3601.9	3623.6	3638.8	3727.9	3740.9
70°	4262.3	4092.9	4181.9	4069.0	4090.7	4105.9	4008.2	4079.8	3906.0	4047.3	3856.1
72.5°	5046.6	4853.2	4699.0	4586.0	4362.3	4329.7	4045.1	4105.9	3736.6	3858.3	3471.6
73°	5087.9	4901.0	4692.5	4575.2	4310.1	4275.4	3971.2	4023.4	3614.9	3730.1	3323.8
75°	4625.1	4675.1	4173.3	4221.1	3760.5	3814.8	3339.0	3399.9	2898.0	2984.9	2461.4
77.5°	3117.5	3284.7	2722.1	2932.8	2361.4	2572.2	1927.0	1946.5	1420.8	1327.4	901.6
80°	1544.6	1688.0	1197.0	1307.8	877.7	862.5	525.7	436.7	371.5	380.2	391.0
82.5°	445.4	501.8	310.7	308.5	219.4	208.6	208.6	221.6	225.9	252.0	245.5
85°	84.7	102.1	89.1	119.5	106.4	117.3	108.6	126.0	117.3	145.6	126.0
87.5°	2.2	0.0	2.2	6.5	6.5	15.2	10.9	17.4	17.4	30.4	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	799.5	810.3	806.0	801.6	797.3	795.1	786.4	790.8	779.9	788.6	779.9
5°	782.1	795.1	788.6	779.9	775.6	771.2	756.0	766.9	749.5	764.7	751.7
7.5°	762.5	784.3	777.7	769.0	760.4	756.0	725.6	749.5	723.4	745.1	723.4
10°	756.0	779.9	771.2	760.4	751.7	747.3	710.4	738.6	710.4	734.3	706.0
12.5°	751.7	779.9	766.9	756.0	747.3	740.8	699.5	734.3	697.4	732.1	699.5
15°	747.3	779.9	762.5	749.5	740.8	734.3	690.8	729.9	688.7	727.8	690.8
17.5°	743.0	773.4	758.2	743.0	734.3	729.9	682.1	723.4	680.0	723.4	686.5
20°	736.5	766.9	749.5	734.3	725.6	719.1	671.3	714.7	669.1	712.6	671.3
22.5°	727.8	760.4	745.1	729.9	721.3	710.4	658.2	703.9	656.1	699.5	660.4
25°	729.9	764.7	745.1	729.9	716.9	706.0	649.6	699.5	645.2	688.7	645.2
27.5°	740.8	771.2	751.7	738.6	721.3	708.2	649.6	695.2	640.9	677.8	632.2
30°	762.5	792.9	775.6	756.0	740.8	723.4	660.4	697.4	640.9	664.8	619.1
32.5°	799.5	827.7	810.3	795.1	777.7	751.7	682.1	708.2	645.2	656.1	608.3
35°	847.3	882.0	873.3	862.5	840.7	795.1	719.1	723.4	653.9	647.4	593.1
37.5°	925.5	973.3	971.1	968.9	945.0	862.5	760.4	753.8	662.6	640.9	573.5
40°	1027.6	1084.0	1099.3	1114.5	1064.5	942.8	808.1	784.3	666.9	627.8	543.1
42.5°	1147.0	1223.1	1268.7	1296.9	1205.7	1031.9	862.5	819.0	666.9	608.3	508.4
45°	1294.8	1383.8	1470.7	1501.2	1362.1	1127.5	918.9	847.3	658.2	577.9	462.7
47.5°	1475.1	1579.4	1698.8	1714.1	1531.6	1229.6	958.0	866.8	630.0	536.6	421.5
50°	1675.0	1801.0	1976.9	1966.1	1711.9	1336.1	984.1	879.8	580.0	488.8	371.5
52.5°	1898.7	2057.3	2307.1	2257.2	1931.3	1468.6	1008.0	897.2	519.2	432.3	321.5
55°	2179.0	2368.0	2680.8	2574.3	2174.6	1614.1	1042.8	899.4	438.8	365.0	284.6
57.5°	2480.9	2683.0	3082.7	2889.3	2402.7	1727.1	1027.6	829.9	358.5	308.5	256.3
60°	2843.7	3089.2	3484.6	3182.6	2593.9	1766.2	921.1	684.3	306.3	278.1	243.3
62.5°	3250.0	3493.3	3814.8	3386.8	2702.5	1701.0	684.3	473.6	262.9	247.7	223.8
65°	3682.3	3912.6	3973.4	3404.2	2630.8	1414.3	423.6	310.7	228.1	221.6	206.4
67.5°	4079.8	4101.6	3823.5	3121.8	2283.2	986.3	288.9	247.7	210.7	208.6	199.9
70°	4181.9	3806.1	3178.3	2431.0	1648.9	586.6	234.6	215.1	202.0	202.0	195.5
72.5°	3493.3	2898.0	2124.6	1472.9	899.4	312.8	199.9	195.5	191.2	191.2	186.8
73°	3276.0	2669.9	1903.1	1286.1	760.4	280.2	195.5	191.2	189.0	186.8	184.7
75°	2176.8	1677.1	1079.7	651.7	354.1	202.0	173.8	173.8	171.6	173.8	171.6
77.5°	838.6	632.2	417.1	280.2	202.0	158.6	147.7	149.9	147.7	152.1	149.9
80°	369.3	365.0	275.9	197.7	147.7	119.5	119.5	119.5	121.7	123.8	123.8
82.5°	252.0	212.9	162.9	121.7	89.1	86.9	89.1	89.1	91.2	93.4	91.2
85°	139.0	117.3	86.9	54.3	47.8	58.7	58.7	58.7	56.5	56.5	54.3
87.5°	43.4	32.6	23.9	6.5	10.9	10.9	15.2	13.0	13.0	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												72.5°
												73°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P  
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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	110°	114.0
788.6	782.1	788.6	777.7	786.4	777.7	784.3	784.3	782.1	782.1	782.1	112.5°	136.0
762.5	751.7	762.5	756.0	762.5	753.8	760.4	762.5	764.7	771.2	769.0	115°	158.0
743.0	721.3	745.1	723.4	743.0	723.4	740.8	743.0	749.5	758.2	764.7	117.5°	181.0
734.3	706.0	734.3	708.2	732.1	710.4	732.1	734.3	740.8	751.7	762.5	120°	204.0
729.9	699.5	729.9	703.9	729.9	708.2	729.9	736.5	740.8	749.5	762.5	122.5°	228.0
725.6	695.2	729.9	701.7	729.9	708.2	732.1	736.5	743.0	751.7	762.5	125°	254.0
723.4	688.7	725.6	699.5	725.6	703.9	729.9	729.9	738.6	749.5	756.0	127.5°	277.0
714.7	682.1	714.7	688.7	714.7	695.2	716.9	716.9	725.6	729.9	740.8	130°	301.0
701.7	666.9	697.4	673.5	697.4	677.8	695.2	695.2	701.7	708.2	714.7	132.5°	325.0
682.1	649.6	675.6	653.9	671.3	653.9	666.9	664.8	669.1	673.5	677.8	135°	348.0
660.4	627.8	649.6	625.7	636.5	619.1	627.8	623.5	625.7	627.8	630.0	137.5°	369.0
636.5	603.9	614.8	593.1	595.2	577.9	582.2	575.7	573.5	571.4	567.0	140°	390.0
610.5	575.7	575.7	554.0	549.6	534.4	534.4	525.7	519.2	510.5	501.8	142.5°	412.0
577.9	547.5	532.2	514.9	506.2	491.0	488.8	477.9	462.7	447.5	438.8	145°	433.0
545.3	510.5	488.8	471.4	462.7	451.9	449.7	441.0	423.6	406.2	393.2	147.5°	452.0
501.8	467.1	443.2	436.7	430.1	421.5	423.6	412.8	395.4	375.8	365.0	150°	469.0
458.4	428.0	408.4	406.2	401.9	399.7	401.9	393.2	373.7	356.3	343.2	152.5°	486.0
421.5	391.0	371.5	369.3	367.1	375.8	378.0	375.8	354.1	336.7	319.3	155°	503.0
384.5	347.6	334.6	330.2	332.4	345.4	349.8	356.3	336.7	317.2	293.3	157.5°	517.0
341.1	306.3	302.0	297.6	299.8	310.7	321.5	334.6	317.2	288.9	256.3	160°	530.0
302.0	271.6	273.7	269.4	273.7	282.4	291.1	312.8	291.1	262.9	247.7	162.5°	540.0
271.6	247.7	252.0	247.7	252.0	262.9	269.4	286.8	286.8	280.2	267.2	165°	550.0
249.8	232.5	236.8	232.5	239.0	247.7	254.2	291.1	312.8	295.5	269.4	167.5°	558.0
236.8	221.6	223.8	219.4	223.8	236.8	249.8	293.3	328.0	293.3	273.7	170°	564.0
217.2	204.2	202.0	202.0	206.4	228.1	234.6	273.7	323.7	291.1	275.9	172.5°	567.0
204.2	193.3	191.2	189.0	193.3	208.6	215.1	254.2	312.8	275.9	249.8	175°	570.0
197.7	189.0	184.7	180.3	184.7	197.7	204.2	239.0	295.5	262.9	234.6	177.5°	574.0
191.2	182.5	180.3	176.0	178.1	186.8	195.5	219.4	280.2	247.7	219.4	180°	576.0
182.5	173.8	171.6	165.1	167.3	176.0	180.3	206.4	260.7	232.5	204.2		
180.3	171.6	169.5	162.9	165.1	171.6	176.0	202.0	256.3	230.3	202.0		
169.5	160.8	158.6	154.2	156.4	156.4	160.8	184.7	243.3	217.2	189.0		
149.9	143.4	141.2	136.9	134.7	132.5	139.0	162.9	221.6	195.5	152.1		
123.8	117.3	115.1	106.4	106.4	106.4	115.1	139.0	165.1	141.2	117.3		
91.2	86.9	86.9	80.4	78.2	76.0	82.6	95.6	130.3	110.8	91.2		
54.3	52.1	54.3	47.8	50.0	47.8	54.3	67.3	71.7	56.5	43.4		
13.0	15.2	15.2	15.2	13.0	13.0	10.9	8.7	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'227942  
 ISS-AF-1200-LED-E1-T4W-7060-ULG

REPORT NUMBER: P227942  
 CATALOG NUMBER: ISS-AF-12

**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	808.1	808.1
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	779.9	777.7
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	769.0	769.0
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	764.7	764.7
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	766.9	766.9
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	766.9	771.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	773.4	771.2
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	766.9	766.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	749.5	753.8
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	725.6	725.6
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	686.5	688.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	634.4	638.7
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	569.2	573.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	495.3	499.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	436.7	438.8
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	397.6	397.6
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	365.0	365.0
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	334.6	332.4
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	304.1	299.8
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	273.7	271.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	247.7	247.7
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	252.0	252.0
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	271.6	271.6
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	273.7	271.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	297.6	295.5
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	310.7	317.2
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	271.6	262.9
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	258.5	245.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	232.5	212.9
										72.5°	206.4	195.5
										73°	199.9	191.2
										75°	178.1	173.8
										77.5°	134.7	132.5
										80°	113.0	110.8
										82.5°	76.0	71.7
										85°	32.6	30.4
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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**CANDELA DISTRIBUTION (continued):**

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

