

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: P228070

Luminaire Tested: **ISS-AF-1200-LED-E1-SL2-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-SL2-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7826.7 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G2

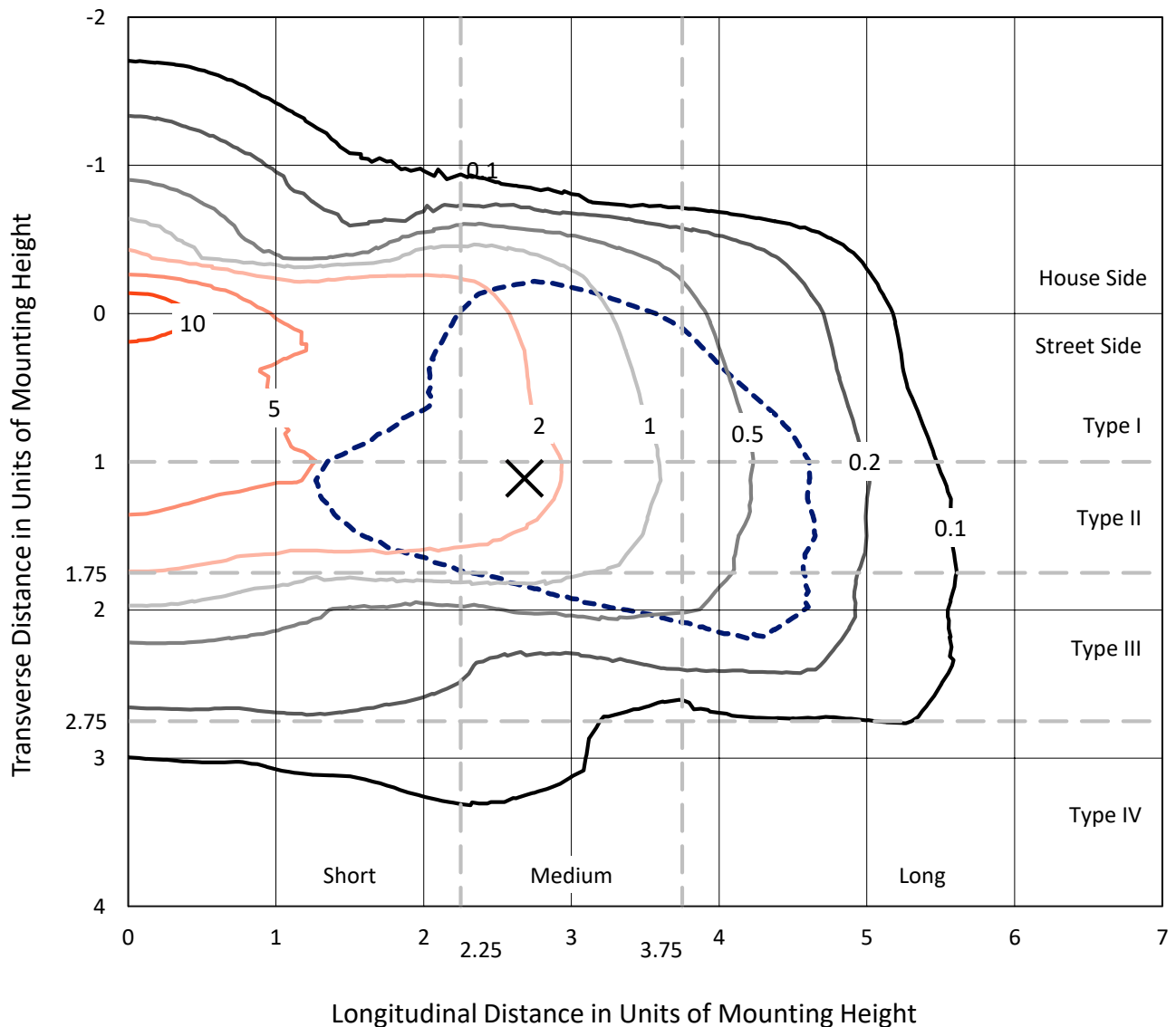
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

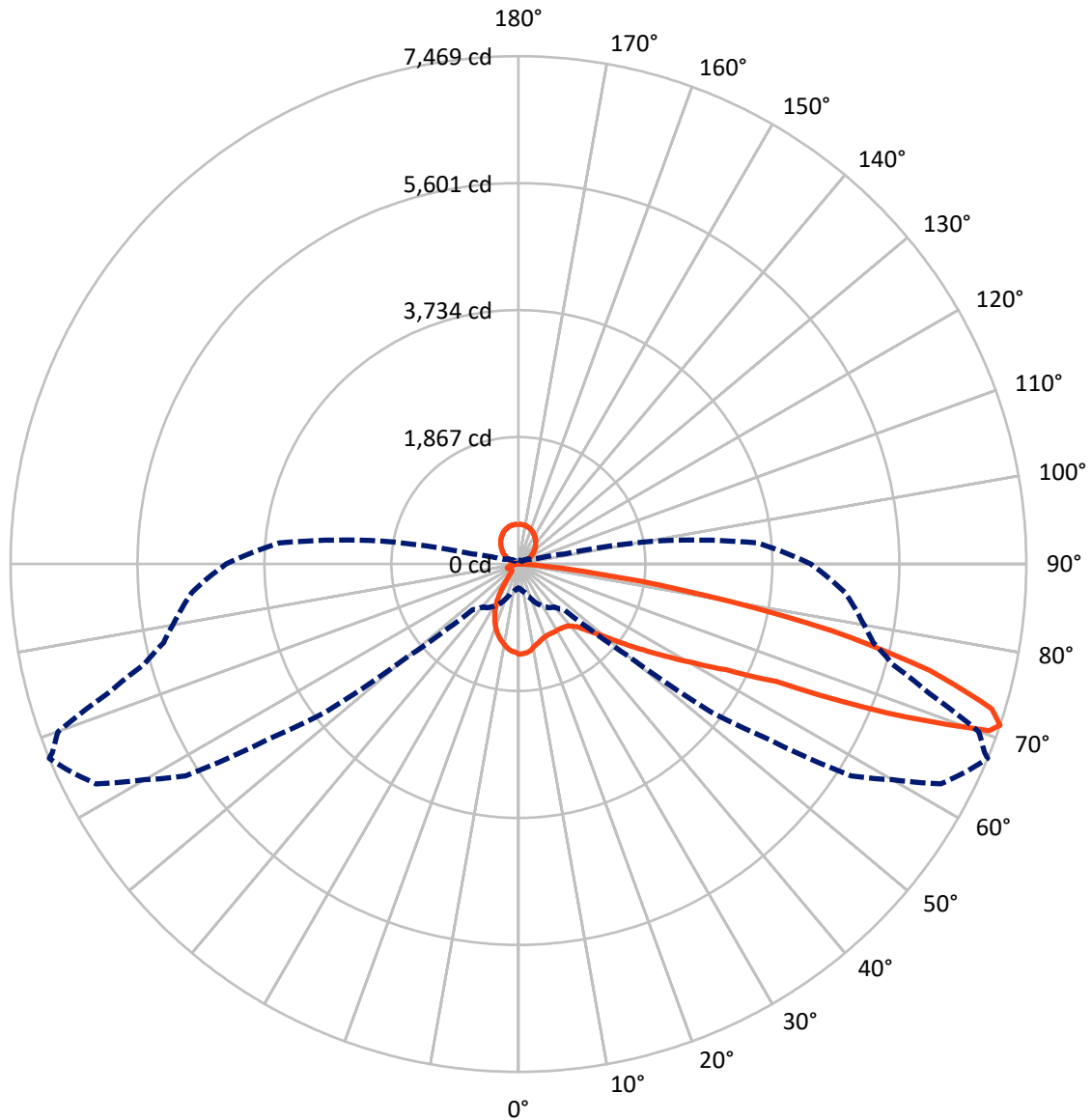
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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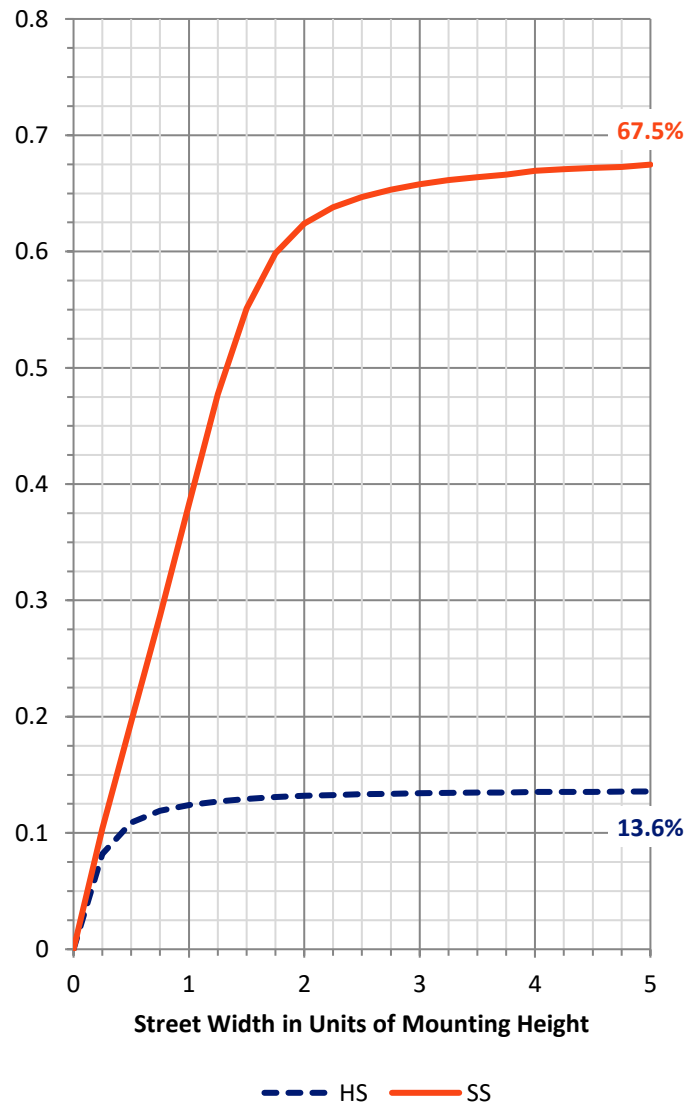
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.0	729.4	1802.4
	% Fixture	13.7	9.3	23.0
Street Side	Lumens	5294.8	729.4	6024.2
	% Fixture	67.7	9.3	77.0
Total	Lumens	6367.8	1458.9	7826.7
	% Fixture	81.4	18.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.5
10°-20°	277.0	3.5
20°-30°	376.7	4.8
30°-40°	514.9	6.6
40°-50°	775.8	9.9
50°-60°	1229.5	15.7
60°-70°	1627.7	20.8
70°-80°	1296.7	16.6
80°-90°	153.7	2.0
90°-100°	4.8	0.1
100°-110°	70.6	0.9
110°-120°	156.6	2.0
120°-130°	229.0	2.9
130°-140°	271.7	3.5
140°-150°	275.5	3.5
150°-160°	236.4	3.0
160°-170°	158.7	2.0
170°-180°	55.6	0.7
0°-90°	6367.8	81.4
0°-180°	7826.7	100.0



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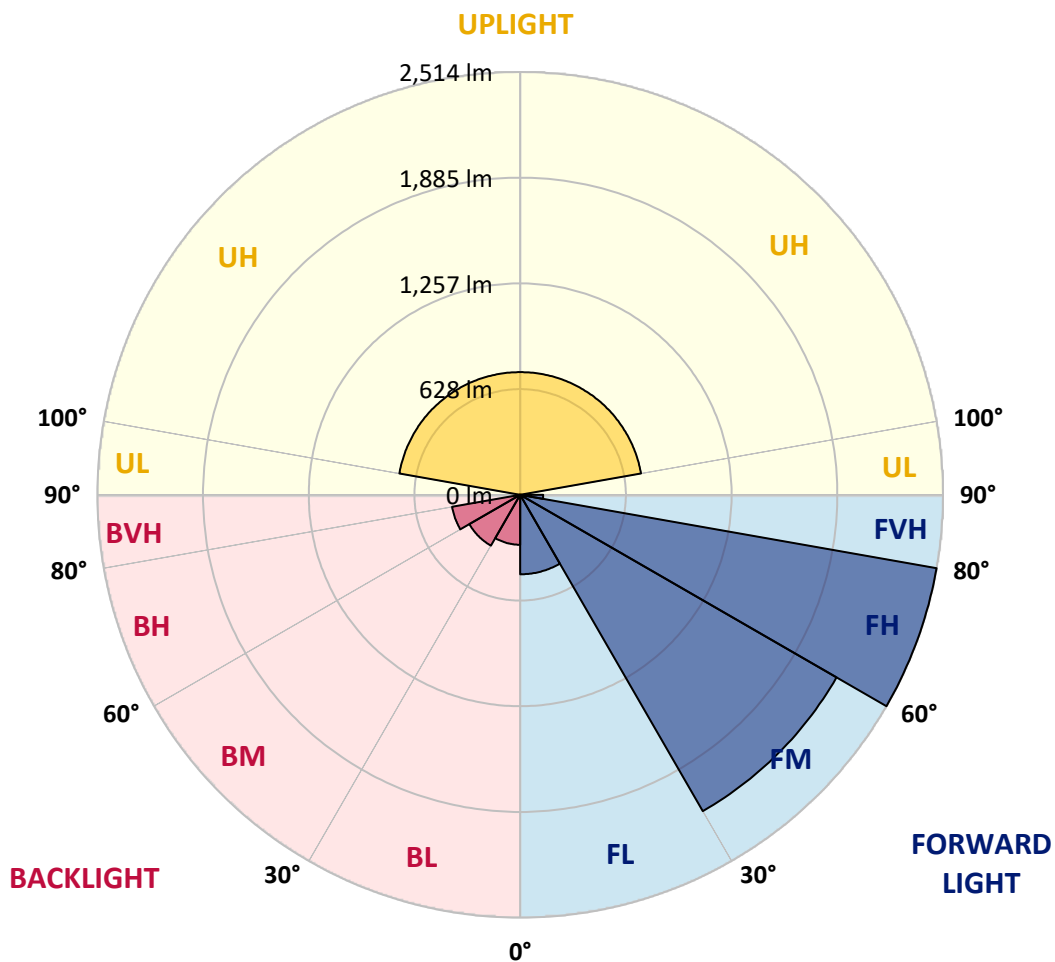
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.5	6.0			
FM	(30°-60°)	2171.6	27.7			
FH	(60°-80°)	2513.7	32.1			G2/5000
FVH	(80°-90°)	137.1	1.8			G2/225
BL	(0°-30°)	297.0	3.8	B1/500		
BM	(30°-60°)	348.7	4.5	B1/1000		
BH	(60°-80°)	410.7	5.2	B1/500		G1/500
BVH	(80°-90°)	16.6	0.2			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	9.3		U4/1000	

BUG Rating: B1-U5-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1302.5	1298.1	1298.1	1304.8	1315.9	1307.0	1313.7	1313.7	1315.9	1322.6	1324.7
5°	1207.0	1198.1	1207.0	1215.9	1240.3	1235.8	1242.5	1249.2	1262.5	1264.8	1282.6
7.5°	1120.2	1115.8	1122.5	1140.3	1171.4	1162.5	1171.4	1180.3	1195.8	1202.5	1220.3
10°	1053.6	1046.9	1055.8	1069.2	1100.3	1098.0	1102.5	1113.6	1131.4	1135.8	1158.1
12.5°	1004.6	1004.6	1009.1	1026.9	1053.6	1051.4	1064.7	1071.3	1086.9	1091.4	1115.8
15°	980.2	973.5	982.4	998.0	1024.7	1024.7	1033.6	1040.2	1062.4	1064.7	1086.9
17.5°	958.0	960.2	962.5	980.2	1004.6	1000.2	1011.4	1015.8	1040.2	1035.8	1062.4
20°	958.0	962.5	960.2	971.4	989.1	980.2	993.6	995.8	1022.4	1015.8	1044.7
22.5°	984.7	989.1	982.4	980.2	986.9	980.2	986.9	991.3	1011.4	1006.9	1033.6
25°	1031.3	1040.2	1031.3	1015.8	1009.1	991.3	995.8	1002.5	1018.0	1006.9	1031.3
27.5°	1104.7	1111.3	1095.8	1080.2	1049.1	1029.1	1022.4	1020.3	1038.0	1020.3	1040.2
30°	1189.2	1198.1	1184.8	1155.8	1111.3	1078.1	1064.7	1058.0	1069.2	1042.5	1062.4
32.5°	1280.3	1289.2	1280.3	1258.1	1198.1	1149.2	1131.4	1115.8	1124.7	1089.1	1098.0
35°	1373.6	1382.5	1391.4	1378.1	1300.3	1244.7	1215.9	1202.5	1200.3	1155.8	1158.1
37.5°	1455.9	1464.8	1493.7	1507.0	1435.9	1360.3	1333.6	1304.8	1307.0	1244.7	1244.7
40°	1555.9	1567.1	1604.8	1635.9	1589.3	1498.1	1467.0	1435.9	1435.9	1353.7	1355.9
42.5°	1691.6	1704.8	1729.3	1771.5	1756.0	1662.6	1629.3	1587.0	1591.5	1493.7	1491.5
45°	1882.6	1891.5	1891.5	1918.2	1920.5	1831.6	1809.3	1767.1	1775.9	1651.6	1658.2
47.5°	2131.6	2120.5	2076.1	2091.6	2109.4	2016.0	1996.1	1969.4	1980.4	1847.1	1860.4
50°	2362.8	2353.9	2262.8	2267.3	2331.7	2236.1	2229.4	2196.1	2211.6	2078.3	2098.3
52.5°	2449.5	2433.9	2342.8	2391.7	2571.7	2518.4	2529.6	2513.9	2522.8	2380.6	2376.1
55°	2351.7	2351.7	2296.1	2385.0	2751.7	2780.7	2871.8	2907.3	2945.2	2802.9	2771.8
57.5°	2080.5	2098.3	2107.2	2265.0	2722.9	2847.4	3020.8	3171.9	3365.3	3356.4	3403.1
60°	1631.5	1662.6	1713.7	1971.6	2598.4	2802.9	3027.4	3254.1	3520.9	3692.0	3945.4
62.5°	1144.7	1171.4	1213.6	1391.4	2236.1	2587.2	2911.8	3260.8	3600.9	3869.8	4203.2
65°	778.0	804.7	893.5	991.3	1349.2	1860.4	2356.2	2934.0	3451.9	3952.1	4401.0
67.5°	560.2	575.7	644.6	809.1	897.9	991.3	1175.9	1856.0	2494.0	3500.8	4156.6
70°	420.1	435.7	497.9	680.2	789.1	813.6	857.9	978.0	1140.3	1967.1	2827.3
71°	351.2	373.4	449.0	640.2	784.6	804.7	824.6	895.8	949.1	1391.4	2098.3
72.5°	246.7	262.3	333.4	591.3	753.5	800.2	846.9	844.7	840.3	949.1	1269.2
75°	157.8	157.8	157.8	333.4	804.7	775.7	793.5	889.1	840.3	798.0	835.8
77.5°	124.5	122.2	115.6	166.7	629.0	786.9	833.5	857.9	904.7	833.5	795.8
80°	93.4	91.1	91.1	104.4	291.1	509.0	704.6	782.5	815.8	886.9	809.1
82.5°	48.9	48.9	53.3	62.2	108.9	177.8	364.6	600.2	671.3	675.8	682.4
85°	15.5	13.3	17.8	28.8	46.6	57.8	102.3	242.2	360.1	435.7	460.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	8.9	15.5	20.0
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	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1318.1	1327.0	1320.3	1329.2	1318.1	1331.5	1320.3	1327.0	1329.2	1320.3	1331.5
5°	1271.4	1298.1	1289.2	1309.2	1300.3	1318.1	1309.2	1327.0	1327.0	1320.3	1335.9
7.5°	1213.6	1240.3	1242.5	1262.5	1262.5	1284.7	1284.7	1302.5	1311.4	1311.4	1333.6
10°	1155.8	1180.3	1184.8	1207.0	1211.4	1238.1	1238.1	1262.5	1280.3	1287.0	1313.7
12.5°	1111.3	1142.5	1142.5	1167.0	1162.5	1202.5	1207.0	1229.2	1247.0	1262.5	1298.1
15°	1084.7	1113.6	1113.6	1138.0	1133.6	1173.6	1180.3	1202.5	1229.2	1238.1	1287.0
17.5°	1058.0	1086.9	1080.2	1113.6	1111.3	1155.8	1151.4	1184.8	1207.0	1220.3	1275.8
20°	1035.8	1069.2	1064.7	1098.0	1089.1	1138.0	1138.0	1171.4	1193.6	1204.7	1269.2
22.5°	1024.7	1060.3	1051.4	1084.7	1078.1	1127.0	1127.0	1160.3	1184.8	1202.5	1266.9
25°	1024.7	1055.8	1046.9	1084.7	1073.6	1127.0	1124.7	1158.1	1182.5	1198.1	1269.2
27.5°	1029.1	1060.3	1053.6	1089.1	1080.2	1127.0	1131.4	1160.3	1184.8	1202.5	1273.7
30°	1044.7	1073.6	1058.0	1091.4	1084.7	1129.1	1127.0	1158.1	1182.5	1204.7	1273.7
32.5°	1078.1	1093.6	1073.6	1102.5	1089.1	1133.6	1133.6	1155.8	1184.8	1211.4	1273.7
35°	1124.7	1135.8	1104.7	1124.7	1100.3	1144.7	1142.5	1167.0	1189.2	1211.4	1278.1
37.5°	1191.4	1204.7	1155.8	1173.6	1133.6	1169.1	1160.3	1189.2	1211.4	1224.8	1300.3
40°	1291.5	1295.9	1231.4	1244.7	1189.2	1220.3	1198.1	1238.1	1249.2	1258.1	1333.6
42.5°	1413.7	1418.1	1335.9	1344.8	1273.7	1300.3	1262.5	1304.8	1320.3	1318.1	1400.3
45°	1564.8	1567.1	1473.7	1480.3	1398.2	1420.4	1373.6	1409.2	1420.4	1413.7	1498.1
47.5°	1729.3	1747.1	1642.7	1651.6	1564.8	1576.0	1518.2	1558.2	1558.2	1551.5	1638.2
50°	1947.2	1973.8	1851.5	1864.9	1764.9	1773.8	1707.1	1749.3	1744.8	1727.0	1824.8
52.5°	2218.3	2242.7	2113.8	2131.6	2024.9	2029.4	1947.2	1996.1	1982.7	1953.8	2067.2
55°	2549.5	2551.8	2431.7	2447.3	2340.6	2333.9	2231.7	2291.7	2271.7	2231.7	2336.1
57.5°	3080.7	3016.3	2818.4	2814.0	2698.4	2689.5	2558.4	2631.7	2598.4	2513.9	2651.8
60°	3936.5	3956.6	3451.9	3374.2	3158.6	3118.6	2945.2	3029.7	2989.6	2851.8	2987.4
62.5°	4418.8	4736.7	4705.6	4425.5	3869.8	3718.7	3425.2	3525.3	3420.8	3218.6	3345.3
65°	4776.7	5207.9	5456.9	5725.9	5476.9	4858.9	4165.5	4305.5	4049.9	3665.3	3787.6
67.5°	4910.1	5430.2	5954.8	6337.1	6597.1	6643.9	5841.5	5879.2	5250.2	4481.1	4496.7
70°	4212.1	4979.0	6005.9	6490.4	7006.2	7259.6	7344.0	7304.0	6897.2	5808.1	5392.4
71°	3569.8	4498.8	5801.5	6341.6	7001.7	7246.2	7468.5	7392.9	7203.9	6334.8	5696.9
72.5°	2418.4	3585.3	5203.4	5888.1	6768.4	6946.1	7279.5	7146.2	7106.1	6728.3	5981.5
75°	1138.0	1787.1	3385.3	4421.1	5728.0	5899.3	6248.2	6083.7	5979.2	6108.1	5690.3
77.5°	838.0	975.8	1858.2	2747.3	4165.5	4407.7	4707.8	4505.6	4372.2	4501.1	4210.0
80°	762.4	766.8	962.5	1449.2	2485.1	2629.5	2742.9	2578.4	2376.1	2367.2	2098.3
82.5°	702.4	664.6	624.6	766.8	1273.7	1211.4	1120.2	1038.0	806.9	646.8	466.8
85°	446.8	489.0	444.6	420.1	506.8	417.9	331.2	317.8	224.5	151.2	140.0
87.5°	31.1	35.6	42.2	48.9	60.0	48.9	31.1	37.7	22.2	0.0	11.2
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°	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.5	6.1	5.6	5.1
100°	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.8	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.5	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.1	72.0	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.8	93.6	93.3	93.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.3	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.8	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.8	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.5	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.7	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.2	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.7	332.8	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.3	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.7	377.8	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.5	399.6	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.7	421.8	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.2	443.4	443.8	444.0
147.5°	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.7	462.9	463.2	463.4
150°	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.1	514.7	514.5	514.7	514.9	515.1	515.4	515.6
157.5°	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.2	529.4	529.7	529.9
160°	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.8	551.4	550.9	550.3
165°	565.5	565.7	564.9	564.2	563.4	562.6	562.1	562.0	561.6	561.1	560.6
167.5°	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.1	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.5	577.1	576.9	577.5	577.6	578.0	578.5	579.0
172.5°	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.3	580.5	580.8	581.0
175°	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.5	582.1	581.5	581.0
177.5°	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1315.9	1327.0	1331.5	1329.2	1324.7	1320.3	1304.8	1315.9	1300.3	1311.4	1298.1
5°	1322.6	1338.1	1340.4	1335.9	1331.5	1322.6	1295.9	1311.4	1293.6	1302.5	1282.6
7.5°	1320.3	1344.8	1347.0	1342.5	1333.6	1318.1	1291.5	1302.5	1273.7	1280.3	1253.6
10°	1309.2	1344.8	1347.0	1335.9	1322.6	1298.1	1266.9	1271.4	1242.5	1242.5	1207.0
12.5°	1298.1	1340.4	1351.4	1335.9	1313.7	1280.3	1244.7	1240.3	1207.0	1204.7	1164.7
15°	1298.1	1344.8	1360.3	1340.4	1307.0	1260.3	1218.0	1209.2	1171.4	1160.3	1115.8
17.5°	1295.9	1344.8	1367.0	1340.4	1300.3	1240.3	1186.9	1178.0	1129.1	1111.3	1060.3
20°	1293.6	1349.2	1371.5	1335.9	1280.3	1215.9	1155.8	1138.0	1084.7	1055.8	995.8
22.5°	1291.5	1358.1	1375.9	1331.5	1266.9	1184.8	1122.5	1091.4	1029.1	991.3	920.2
25°	1302.5	1369.2	1378.1	1327.0	1247.0	1151.4	1084.7	1042.5	973.5	924.6	840.3
27.5°	1307.0	1380.4	1382.5	1318.1	1222.5	1115.8	1044.7	986.9	909.1	849.0	753.5
30°	1320.3	1382.5	1375.9	1300.3	1193.6	1071.3	998.0	926.9	840.3	762.4	649.1
32.5°	1324.7	1389.3	1371.5	1280.3	1164.7	1026.9	944.7	862.4	758.0	666.9	529.0
35°	1333.6	1393.7	1367.0	1269.2	1133.6	980.2	889.1	795.8	675.8	560.2	402.3
37.5°	1347.0	1413.7	1378.1	1264.8	1118.1	940.2	826.9	726.8	578.0	442.3	266.7
40°	1380.4	1453.7	1398.2	1271.4	1106.9	906.8	766.8	655.7	466.8	326.7	184.5
42.5°	1447.1	1522.6	1449.2	1304.8	1113.6	878.0	704.6	580.1	353.4	233.4	153.3
45°	1547.0	1611.5	1533.7	1360.3	1140.3	862.4	646.8	502.4	253.4	186.7	140.0
47.5°	1693.7	1756.0	1658.2	1449.2	1186.9	855.8	586.8	420.1	195.6	168.9	135.5
50°	1887.1	1960.5	1838.2	1589.3	1273.7	862.4	522.3	342.3	171.1	164.5	133.4
52.5°	2125.0	2196.1	2073.8	1796.0	1415.9	900.2	453.5	297.9	162.2	162.2	131.1
55°	2393.9	2494.0	2374.0	2082.7	1635.9	982.4	411.2	282.3	162.2	164.5	128.9
57.5°	2711.7	2796.2	2689.5	2358.3	1900.4	1118.1	415.6	297.9	162.2	164.5	126.7
60°	3022.9	3127.5	3005.2	2709.6	2202.7	1322.6	506.8	377.9	168.9	171.1	126.7
62.5°	3347.5	3427.5	3327.5	3016.3	2545.1	1576.0	689.1	546.8	195.6	202.2	135.5
65°	3703.1	3834.2	3729.8	3474.1	3029.7	1980.4	1035.8	820.2	289.0	235.6	148.9
67.5°	4318.8	4372.2	4321.0	4087.7	3596.4	2313.9	1233.7	833.5	289.0	228.9	166.7
70°	5152.4	5032.3	4803.4	4367.7	3656.4	2076.1	884.6	509.0	246.7	217.8	175.6
71°	5345.7	5161.3	4823.4	4298.8	3531.9	1873.7	686.8	402.3	231.2	213.4	175.6
72.5°	5463.6	5187.9	4676.7	4096.5	3287.5	1475.9	453.5	315.7	211.1	202.2	168.9
75°	5310.1	4801.2	4129.9	3545.3	2691.8	766.8	284.5	240.1	180.0	175.6	146.7
77.5°	4216.6	3769.8	3047.4	2576.2	1731.5	340.1	204.5	182.3	142.3	137.8	113.3
80°	1967.1	1578.2	924.6	793.5	544.6	200.1	140.0	124.5	102.3	97.8	80.0
82.5°	357.8	268.9	209.0	202.2	182.3	117.8	82.2	75.6	64.4	62.2	51.1
85°	122.2	117.8	88.9	88.9	91.1	62.2	46.6	44.5	33.3	33.3	22.2
87.5°	2.3	11.2	11.2	15.5	13.3	11.2	4.4	6.6	2.3	6.6	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°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9



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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°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4	0°
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	2.5°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	7.5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	10°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	12.5°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	15°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	17.5°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	20°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	22.5°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	25°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	27.5°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	30°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	32.5°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	35°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	37.5°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	40°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	42.5°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	45°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	47.5°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	50°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	52.5°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	55°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	57.5°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	60°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	62.5°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	65°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°
												71°
												72.5°
												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°
1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	110°	116.6
1309.2	1291.5	1307.0	1291.5	1300.3	1282.6	1293.6	1287.0	1287.0	1280.3	1275.8	112.5°	139.1
1289.2	1266.9	1278.1	1260.3	1269.2	1242.5	1249.2	1238.1	1215.9	1202.5	1184.8	115°	161.6
1260.3	1226.9	1235.8	1209.2	1215.9	1180.3	1186.9	1167.0	1124.7	1098.0	1071.3	117.5°	185.2
1209.2	1178.0	1180.3	1146.9	1144.7	1109.2	1102.5	1075.8	1013.5	969.1	933.5	120°	208.7
1158.1	1122.5	1118.1	1078.1	1071.3	1029.1	1020.3	978.0	886.9	800.2	744.6	122.5°	233.2
1104.7	1060.3	1046.9	1004.6	980.2	944.7	920.2	857.9	726.8	613.5	540.1	125°	259.8
1044.7	986.9	966.9	918.0	882.4	829.1	793.5	709.1	540.1	417.9	366.7	127.5°	283.4
966.9	904.7	869.1	806.9	760.2	695.7	651.3	542.4	360.1	297.9	291.1	130°	307.9
880.2	806.9	762.4	684.7	626.9	557.9	486.8	366.7	255.6	242.2	251.1	132.5°	332.5
789.1	698.0	640.2	544.6	466.8	386.8	320.1	244.5	209.0	206.7	220.0	135°	356.0
680.2	575.7	493.5	380.1	308.9	246.7	217.8	193.3	177.8	180.0	193.3	137.5°	377.5
560.2	424.5	337.9	237.8	206.7	180.0	175.6	166.7	160.0	164.5	173.4	140°	399.0
417.9	271.2	217.8	171.1	168.9	153.3	157.8	153.3	151.2	153.3	160.0	142.5°	421.5
282.3	180.0	171.1	146.7	151.2	140.0	146.7	144.4	142.3	142.3	146.7	145°	442.9
195.6	148.9	153.3	135.5	142.3	133.4	140.0	137.8	135.5	133.4	135.5	147.5°	462.4
162.2	135.5	142.3	128.9	135.5	126.7	133.4	131.1	128.9	124.5	124.5	150°	479.8
148.9	128.9	135.5	122.2	131.1	120.0	128.9	124.5	120.0	115.6	117.8	152.5°	497.2
144.4	124.5	131.1	117.8	126.7	115.6	122.2	120.0	111.1	108.9	111.1	155°	514.5
140.0	122.2	128.9	115.6	122.2	111.1	117.8	113.3	104.4	102.3	104.4	157.5°	528.9
137.8	117.8	124.5	111.1	117.8	108.9	113.3	108.9	100.0	97.8	97.8	160°	542.2
135.5	115.6	122.2	106.7	113.3	100.0	106.7	102.3	93.4	91.1	91.1	162.5°	552.4
135.5	113.3	117.8	102.3	108.9	95.5	100.0	95.5	91.1	86.6	86.6	165°	562.6
133.4	108.9	115.6	97.8	102.3	91.1	95.5	91.1	84.5	82.2	82.2	167.5°	570.8
133.4	106.7	113.3	95.5	100.0	86.6	91.1	86.6	80.0	77.8	77.8	170°	576.9
140.0	111.1	115.6	97.8	100.0	86.6	88.9	82.2	75.6	75.6	73.3	172.5°	580.0
153.3	124.5	124.5	102.3	102.3	86.6	88.9	80.0	71.1	71.1	71.1	175°	583.1
166.7	137.8	135.5	108.9	106.7	86.6	86.6	75.6	66.7	66.7	66.7	177.5°	587.2
175.6	144.4	140.0	111.1	106.7	84.5	82.2	71.1	62.2	62.2	62.2	180°	589.2
173.4	144.4	137.8	108.9	102.3	80.0	80.0	68.9	60.0	60.0	57.8		
164.5	135.5	128.9	102.3	97.8	75.6	75.6	64.4	55.5	55.5	53.3		
140.0	115.6	108.9	86.6	82.2	66.7	64.4	53.3	48.9	46.6	46.6		
108.9	91.1	84.5	68.9	66.7	53.3	51.1	44.5	40.0	40.0	37.7		
77.8	64.4	60.0	46.6	42.2	35.6	37.7	33.3	31.1	31.1	28.8		
46.6	33.3	33.3	26.7	28.8	22.2	24.4	24.4	22.2	17.8	17.8		
24.4	15.5	20.0	11.2	15.5	6.6	11.2	8.9	8.9	6.6	6.6		
4.4	0.0	2.3	0.0	2.3	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	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		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		

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 ISS-AF-1200-LED-E1-SL2-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4	0°	1327.0	1327.0
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	1262.5	1264.8
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	1175.9	1180.3
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	1051.4	1058.0
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	902.4	906.8
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	711.3	711.3
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	497.9	502.4
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	348.9	351.2
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	293.4	295.6
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	262.3	264.5
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	233.4	235.6
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	202.2	204.5
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	182.3	184.5
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	164.5	166.7
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	148.9	148.9
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	137.8	137.8
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	126.7	126.7
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	120.0	120.0
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	113.3	113.3
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	106.7	106.7
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	100.0	102.3
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	93.4	93.4
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	86.6	86.6
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	80.0	82.2
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	75.6	75.6
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	71.1	71.1
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	68.9	68.9
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	64.4	64.4
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	60.0	60.0
										71°	57.8	57.8
										72.5°	53.3	53.3
										75°	46.6	44.5
										77.5°	37.7	37.7
										80°	28.8	26.7
										82.5°	17.8	15.5
										85°	6.6	4.4
										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°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8



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	175°	180°
110°	104.3	103.3
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

