

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: INVUE

Report Number: P141575

Luminaire Tested: **ECM-F04-LED-E1-SLR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141575
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F04-LED-E1-SLR
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8636.7 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

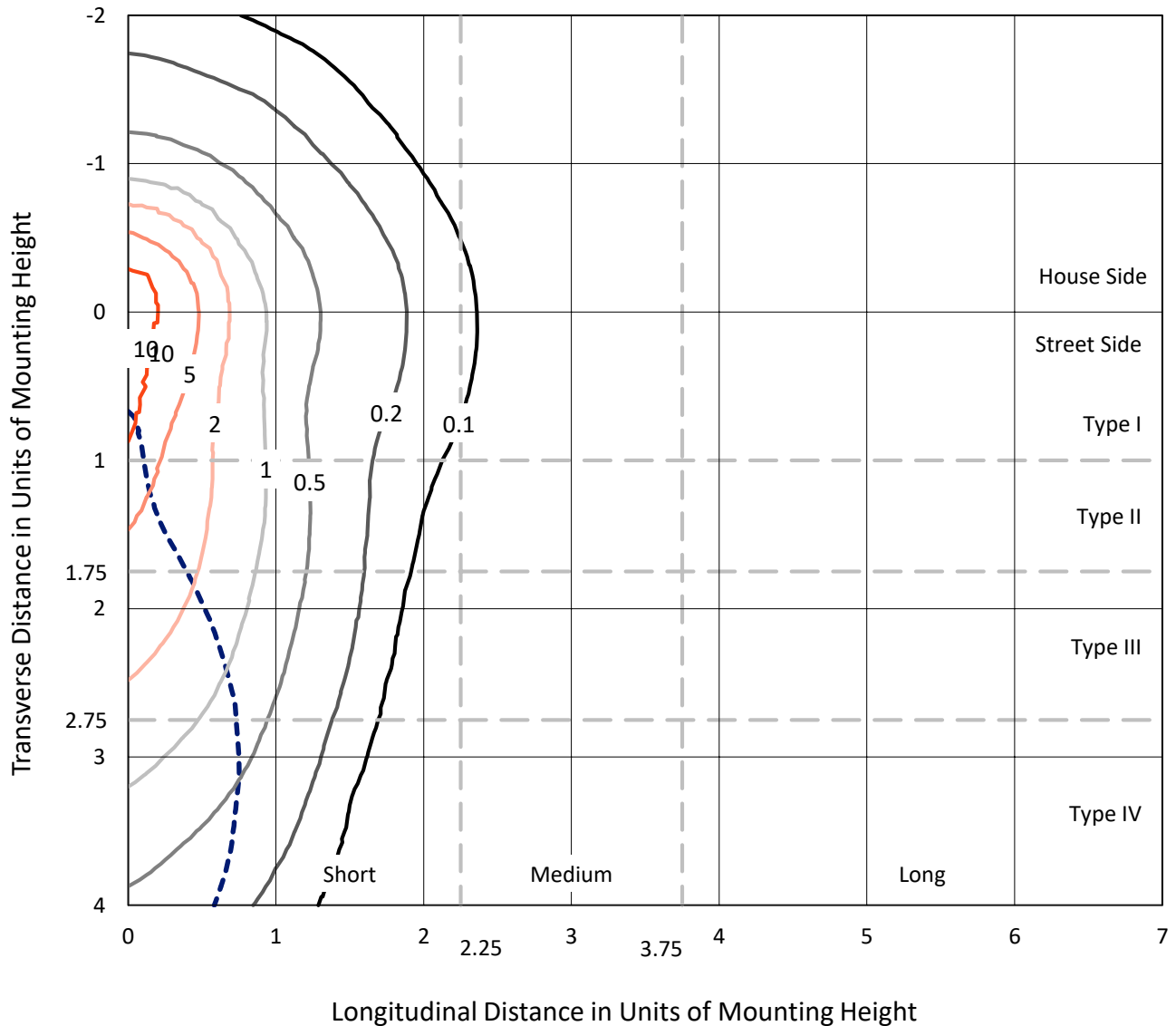
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

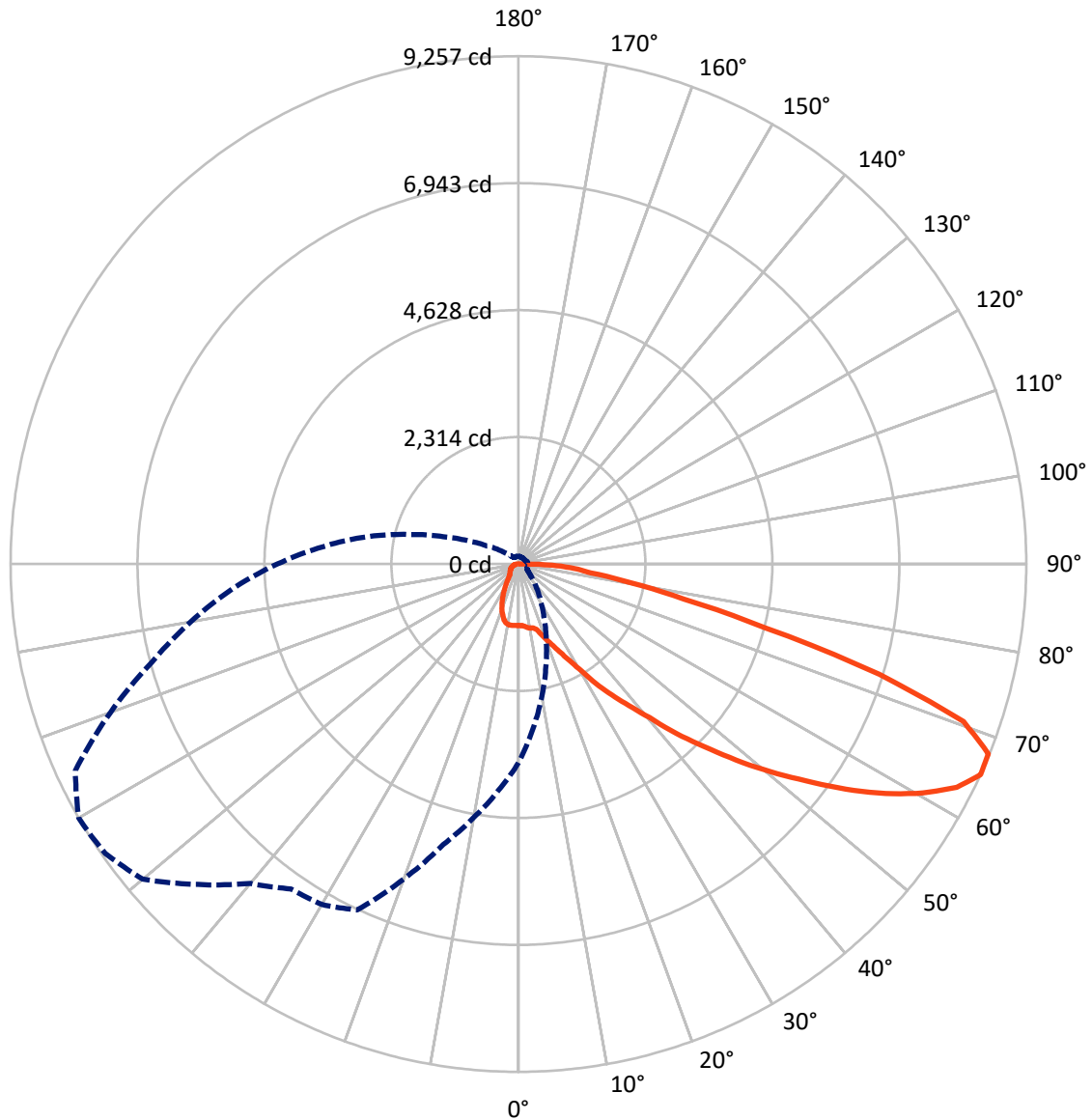
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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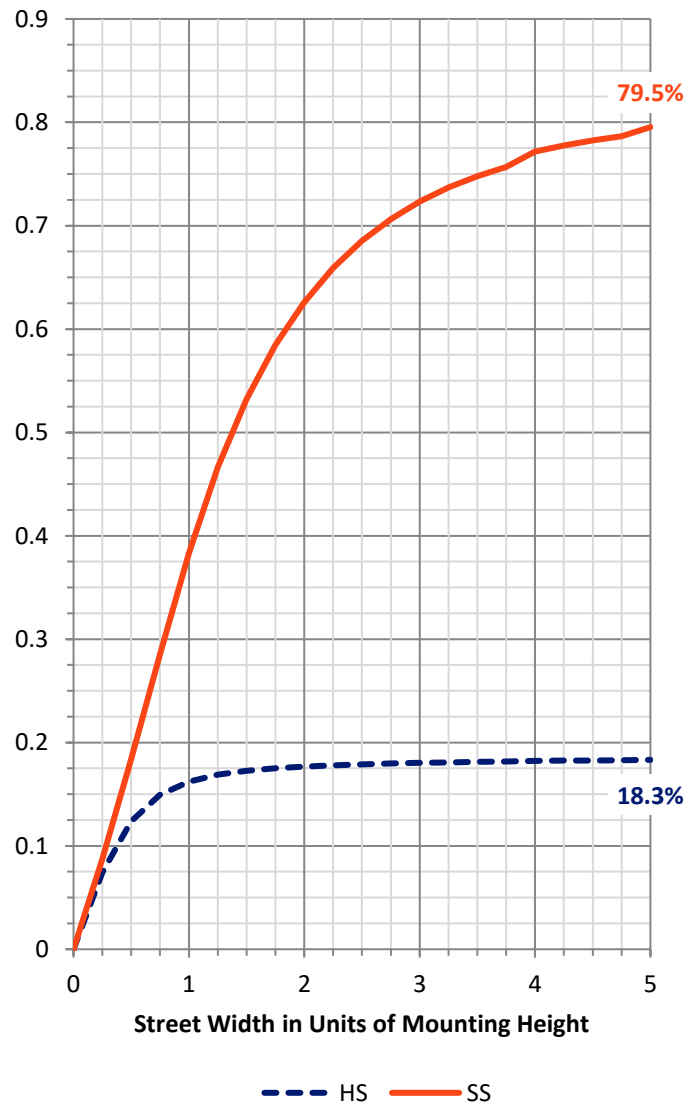
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1601.9	0.0	1601.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7034.8	0.0	7034.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	8636.7	0.0	8636.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.3
10°-20°	326.2	3.8
20°-30°	542.0	6.3
30°-40°	792.3	9.2
40°-50°	1205.3	14.0
50°-60°	1732.5	20.1
60°-70°	2130.0	24.7
70°-80°	1424.9	16.5
80°-90°	374.9	4.3
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°	8636.7	100.0
0°-180°	8636.7	100.0

Coefficient of Utilization



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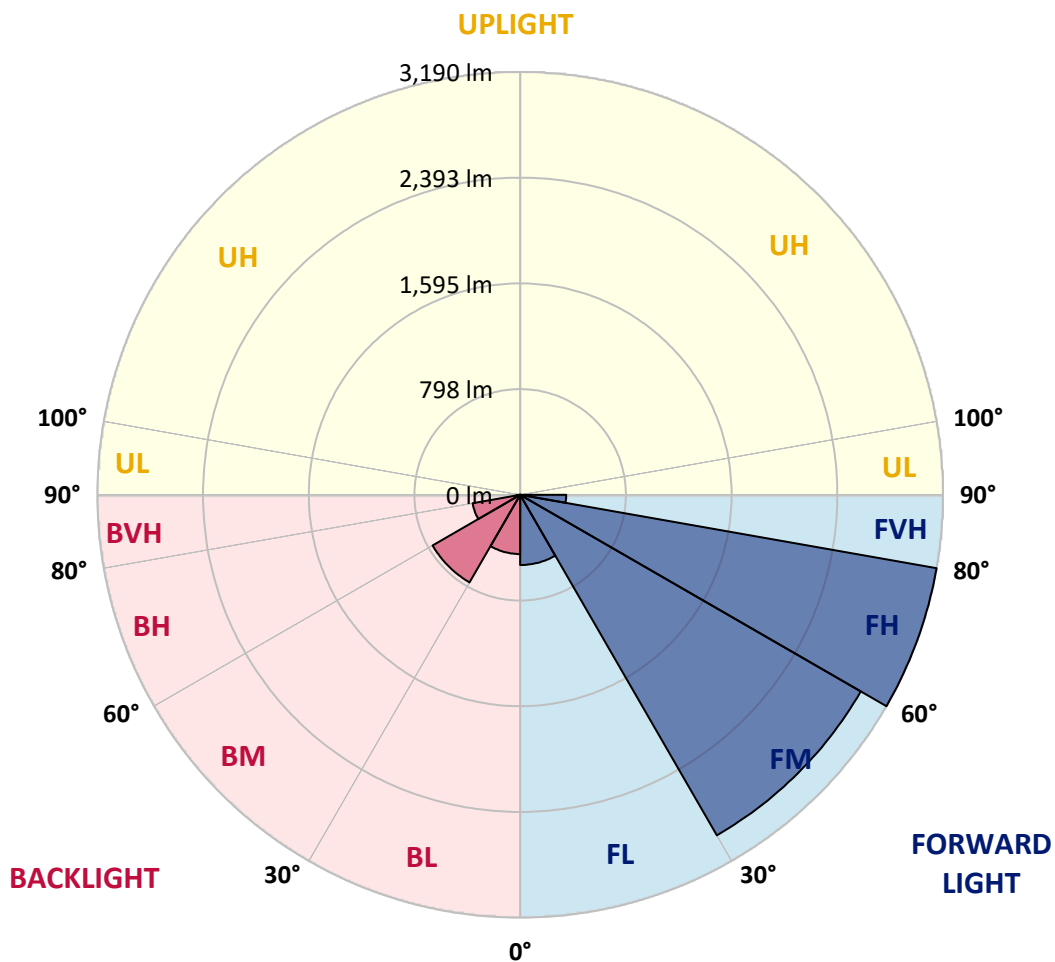
CATALOG NUMBER: ECM-F04-LED-E1-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	529.8	6.1			
FM	(30°-60°)	2967.0	34.4			
FH	(60°-80°)	3190.4	36.9			G2/5000
FVH	(80°-90°)	347.6	4.0			G3/500
BL	(0°-30°)	447.1	5.2	B1/500		
BM	(30°-60°)	763.0	8.8	B1/1000		
BH	(60°-80°)	364.6	4.2	B1/500		G1/500
BVH	(80°-90°)	27.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1123.8	1127.1	1127.1	1124.9	1123.8	1124.9	1126.0	1124.9	1126.0	1128.2	1127.1
5°	1109.5	1111.7	1112.8	1112.8	1112.8	1115.0	1118.3	1117.2	1120.5	1122.7	1122.7
7.5°	1075.4	1079.8	1079.8	1080.9	1083.1	1086.4	1091.9	1094.1	1099.6	1107.3	1109.5
10°	1054.5	1055.6	1052.3	1051.2	1053.4	1060.0	1063.3	1068.8	1077.6	1086.4	1095.2
12.5°	1060.0	1061.1	1055.6	1056.7	1056.7	1060.0	1069.9	1074.3	1077.6	1083.1	1091.9
15°	1105.1	1105.1	1098.5	1100.7	1101.8	1106.2	1106.2	1098.5	1096.3	1090.8	1086.4
17.5°	1165.6	1156.8	1155.7	1154.6	1159.0	1154.6	1144.7	1127.1	1106.2	1084.2	1066.6
20°	1228.4	1229.5	1222.9	1221.8	1209.7	1194.3	1165.6	1130.4	1093.0	1058.9	1023.7
22.5°	1321.9	1324.1	1312.0	1287.8	1261.4	1220.7	1168.9	1115.0	1061.1	1013.7	973.0
25°	1463.9	1440.8	1413.3	1362.7	1295.5	1224.0	1152.4	1085.3	1014.8	952.1	900.4
27.5°	1604.8	1558.6	1484.8	1402.3	1307.6	1215.2	1130.4	1040.2	956.5	880.6	821.1
30°	1735.8	1649.9	1544.3	1426.5	1305.4	1186.6	1078.7	976.3	877.3	795.8	725.4
32.5°	1869.0	1743.5	1597.1	1432.0	1272.4	1130.4	1006.0	888.3	790.3	691.2	615.3
35°	2036.3	1847.0	1629.0	1411.1	1215.2	1042.4	909.2	796.9	691.2	591.1	511.8
37.5°	2189.3	1929.5	1645.5	1375.9	1140.3	951.0	804.6	690.1	591.1	506.3	438.1
40°	2301.6	1983.5	1643.3	1330.7	1064.4	857.4	713.3	609.8	520.6	453.5	400.7
42.5°	2389.6	2014.3	1632.3	1287.8	998.3	789.2	653.8	559.2	488.7	434.8	394.1
45°	2450.2	2036.3	1625.7	1253.7	954.3	756.2	634.0	554.8	495.3	446.9	400.7
47.5°	2503.0	2061.6	1623.5	1238.3	944.4	766.1	660.4	588.9	523.9	461.2	399.6
50°	2555.8	2086.9	1643.3	1263.6	981.8	821.1	722.1	630.7	541.5	456.8	380.8
52.5°	2628.5	2160.7	1717.1	1336.2	1063.3	898.2	780.4	664.8	544.8	445.8	363.2
55°	2737.4	2275.1	1822.8	1432.0	1151.3	981.8	827.7	678.0	541.5	433.7	346.7
57.5°	2915.8	2443.6	1967.0	1565.2	1265.8	1046.8	854.1	683.5	533.8	420.5	333.5
60°	3141.4	2636.2	2148.6	1705.0	1363.8	1091.9	865.2	681.3	522.8	405.1	314.8
62.5°	3397.9	2847.5	2312.6	1832.7	1434.2	1112.8	860.7	663.7	497.5	373.1	288.4
65°	3623.5	3015.9	2450.2	1935.0	1478.2	1112.8	833.2	623.0	452.4	328.0	254.3
67.5°	3808.4	3157.9	2555.8	1994.5	1482.6	1074.3	767.2	549.2	380.8	271.9	214.6
70°	3905.3	3203.0	2588.8	1987.9	1408.9	963.1	646.1	427.1	279.6	211.3	172.8
72.5°	3798.5	3096.3	2448.0	1796.3	1175.5	718.8	452.4	290.6	200.3	164.0	143.1
75°	3380.2	2627.4	2037.4	1389.1	842.0	448.0	280.7	203.6	158.5	136.5	125.5
77.5°	2523.9	1958.1	1402.3	879.5	482.1	271.9	197.0	155.2	133.2	120.0	110.1
80°	1587.2	1206.4	843.1	484.3	275.2	200.3	164.0	138.7	121.1	104.6	94.7
82.5°	883.9	642.8	429.3	276.3	191.5	161.8	142.0	127.7	107.9	91.4	81.5
85°	604.3	397.4	270.8	181.6	132.1	117.8	105.7	96.9	82.6	69.3	63.8
87.5°	245.5	228.9	166.2	72.6	53.9	48.4	42.9	52.8	44.0	34.1	31.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1129.3	1127.1	1128.2	1127.1	1126.0	1124.9	1123.8	1124.9	1122.7	1123.8	1123.8
5°	1126.0	1123.8	1127.1	1126.0	1123.8	1123.8	1122.7	1122.7	1122.7	1122.7	1123.8
7.5°	1116.1	1116.1	1119.4	1119.4	1117.2	1117.2	1115.0	1113.9	1113.9	1115.0	1117.2
10°	1102.9	1106.2	1111.7	1109.5	1105.1	1102.9	1099.6	1097.4	1096.3	1098.5	1100.7
12.5°	1093.0	1095.2	1091.9	1088.6	1082.0	1074.3	1073.2	1067.7	1064.4	1069.9	1069.9
15°	1076.5	1067.7	1055.6	1044.6	1029.2	1021.4	1012.6	1010.4	1002.7	1003.8	1009.3
17.5°	1041.3	1018.1	999.4	988.4	975.2	969.7	959.8	954.3	948.8	943.3	946.6
20°	991.7	966.4	942.2	927.9	907.0	902.6	886.1	886.1	879.5	880.6	887.2
22.5°	929.0	890.5	859.6	842.0	820.0	811.2	803.5	798.0	794.7	801.3	793.6
25°	846.4	800.2	771.6	746.3	722.1	713.3	703.3	700.0	701.1	696.7	704.4
27.5°	761.7	704.4	673.6	645.0	627.4	612.0	604.3	602.1	597.7	609.8	603.2
30°	654.9	603.2	566.9	537.1	516.2	508.5	500.8	498.6	505.2	496.4	492.0
32.5°	547.0	490.9	460.1	434.8	419.4	404.0	401.8	397.4	389.6	399.6	397.4
35°	449.1	401.8	369.8	354.4	333.5	326.9	313.7	310.4	311.5	313.7	312.6
37.5°	389.6	356.6	328.0	307.1	291.7	282.9	278.5	274.1	274.1	271.9	270.8
40°	362.1	334.6	308.2	288.4	276.3	269.7	265.3	260.9	257.6	254.3	251.0
42.5°	357.7	324.7	295.0	275.2	264.2	262.0	260.9	257.6	253.2	247.7	243.3
45°	354.4	312.6	281.8	264.2	256.5	255.4	255.4	252.1	248.8	243.3	236.7
47.5°	343.4	297.2	267.5	254.3	251.0	252.1	251.0	247.7	245.5	240.0	232.2
50°	319.2	274.1	245.5	235.5	234.4	233.3	233.3	232.2	230.0	225.6	217.9
52.5°	298.3	253.2	230.0	223.4	221.2	221.2	219.0	217.9	213.5	210.2	204.7
55°	285.1	242.2	222.3	217.9	217.9	216.8	214.6	211.3	208.0	203.6	197.0
57.5°	273.0	233.3	216.8	213.5	214.6	213.5	211.3	209.1	204.7	199.2	191.5
60°	255.4	220.1	205.8	204.7	206.9	209.1	208.0	206.9	203.6	195.9	184.9
62.5°	230.0	198.1	187.1	189.3	191.5	193.7	192.6	191.5	188.2	181.6	171.7
65°	204.7	181.6	175.0	177.2	179.4	179.4	179.4	177.2	175.0	167.3	159.6
67.5°	180.5	166.2	164.0	166.2	167.3	167.3	168.4	166.2	162.9	157.4	149.7
70°	154.1	147.5	147.5	149.7	150.8	149.7	150.8	147.5	144.2	140.9	133.2
72.5°	137.6	137.6	136.5	136.5	136.5	134.3	133.2	131.0	127.7	124.4	117.8
75°	122.2	122.2	121.1	123.3	118.9	115.6	114.5	112.3	109.0	104.6	100.2
77.5°	104.6	102.4	102.4	105.7	104.6	100.2	96.9	95.8	91.4	87.0	84.8
80°	90.3	88.1	88.1	87.0	84.8	83.7	79.3	74.8	73.7	73.7	70.4
82.5°	79.3	78.1	74.8	72.6	69.3	66.0	62.7	60.5	57.2	56.1	57.2
85°	62.7	63.8	60.5	58.3	55.0	50.6	47.3	45.1	42.9	42.9	47.3
87.5°	36.3	34.1	34.1	33.0	31.9	28.6	28.6	25.3	24.2	30.8	31.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1124.9	1124.9	1121.6	1123.8	1122.7	1123.8	1128.2	1123.8	1122.7	1126.0	1129.3
5°	1124.9	1127.1	1123.8	1126.0	1126.0	1129.3	1134.8	1131.5	1133.7	1138.1	1142.5
7.5°	1120.5	1123.8	1123.8	1128.2	1131.5	1137.0	1144.7	1142.5	1146.9	1153.5	1159.0
10°	1108.4	1113.9	1119.4	1126.0	1133.7	1142.5	1153.5	1153.5	1157.9	1166.7	1172.2
12.5°	1078.7	1093.0	1099.6	1115.0	1127.1	1140.3	1152.4	1160.1	1163.4	1171.1	1177.7
15°	1019.2	1036.9	1050.1	1068.8	1088.6	1107.3	1128.2	1135.9	1142.5	1145.8	1149.1
17.5°	951.0	963.1	971.9	996.1	1018.1	1035.8	1055.6	1065.5	1073.2	1073.2	1075.4
20°	894.9	900.4	902.6	902.6	915.8	932.3	957.6	954.3	960.9	954.3	960.9
22.5°	807.9	799.1	803.5	803.5	812.3	809.0	818.9	835.4	833.2	837.6	856.3
25°	702.2	703.3	695.6	695.6	696.7	698.9	703.3	707.8	723.2	739.7	751.8
27.5°	602.1	599.9	594.4	590.0	585.6	593.3	598.8	597.7	619.7	632.9	654.9
30°	492.0	492.0	493.1	490.9	495.3	489.8	498.6	500.8	519.5	533.8	553.7
32.5°	400.7	402.9	402.9	401.8	409.5	404.0	408.4	413.9	426.0	438.1	448.0
35°	318.1	321.4	330.2	333.5	336.8	332.4	337.9	344.5	345.6	356.6	364.3
37.5°	269.7	275.2	276.3	278.5	278.5	281.8	282.9	287.3	287.3	290.6	292.8
40°	248.8	246.6	245.5	244.4	242.2	243.3	244.4	247.7	248.8	251.0	251.0
42.5°	238.9	235.5	230.0	226.7	222.3	222.3	222.3	222.3	225.6	227.8	227.8
45°	230.0	224.5	219.0	213.5	210.2	208.0	209.1	210.2	212.4	213.5	214.6
47.5°	224.5	216.8	208.0	202.5	199.2	197.0	198.1	199.2	199.2	200.3	201.4
50°	209.1	201.4	193.7	188.2	184.9	183.8	183.8	182.7	183.8	184.9	184.9
52.5°	197.0	189.3	182.7	177.2	173.9	173.9	172.8	170.6	171.7	170.6	171.7
55°	190.4	180.5	172.8	167.3	164.0	164.0	161.8	162.9	162.9	160.7	161.8
57.5°	182.7	172.8	166.2	159.6	155.2	155.2	154.1	155.2	156.3	153.0	153.0
60°	175.0	166.2	158.5	153.0	147.5	148.6	147.5	149.7	149.7	146.4	146.4
62.5°	160.7	153.0	148.6	145.3	140.9	142.0	142.0	145.3	142.0	139.8	138.7
65°	149.7	144.2	137.6	137.6	133.2	135.4	135.4	135.4	132.1	131.0	132.1
67.5°	142.0	135.4	131.0	126.6	123.3	124.4	122.2	122.2	121.1	120.0	122.2
70°	127.7	122.2	120.0	115.6	113.4	110.1	109.0	109.0	109.0	107.9	109.0
72.5°	113.4	109.0	106.8	102.4	100.2	98.0	96.9	95.8	94.7	95.8	95.8
75°	95.8	93.6	91.4	89.2	87.0	85.9	84.8	84.8	83.7	82.6	83.7
77.5°	82.6	79.3	78.1	75.9	77.0	73.7	72.6	73.7	73.7	73.7	74.8
80°	70.4	68.2	68.2	66.0	64.9	62.7	63.8	63.8	63.8	63.8	64.9
82.5°	61.6	59.4	59.4	58.3	55.0	52.8	53.9	56.1	56.1	55.0	57.2
85°	50.6	48.4	48.4	47.3	42.9	41.8	40.7	42.9	44.0	41.8	44.0
87.5°	33.0	30.8	29.7	29.7	25.3	17.6	23.1	25.3	25.3	20.9	24.2
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1128.2	1130.4	1130.4	1132.6	1137.0	1132.6	1130.4	1133.7	1133.7	1132.6	1132.6
5°	1142.5	1146.9	1148.0	1154.6	1157.9	1155.7	1157.9	1160.1	1161.2	1159.0	1161.2
7.5°	1161.2	1166.7	1172.2	1180.0	1186.6	1185.5	1188.8	1193.2	1194.3	1194.3	1196.5
10°	1176.6	1184.4	1189.9	1199.8	1207.5	1209.7	1213.0	1218.5	1224.0	1224.0	1228.4
12.5°	1180.0	1188.8	1194.3	1203.1	1216.3	1220.7	1228.4	1241.6	1247.1	1251.5	1254.8
15°	1151.3	1159.0	1166.7	1178.8	1194.3	1207.5	1225.1	1243.8	1260.3	1272.4	1276.8
17.5°	1076.5	1077.6	1085.3	1102.9	1134.8	1149.1	1171.1	1209.7	1232.8	1254.8	1275.7
20°	966.4	987.3	995.0	1018.1	1049.0	1071.0	1096.3	1131.5	1166.7	1206.4	1241.6
22.5°	869.6	897.1	919.1	946.6	971.9	997.2	1029.2	1060.0	1098.5	1137.0	1178.8
25°	770.5	795.8	826.6	856.3	886.1	918.0	957.6	990.6	1029.2	1074.3	1127.1
27.5°	674.7	701.1	735.3	770.5	794.7	837.6	870.7	919.1	963.1	1012.6	1072.1
30°	574.6	599.9	616.4	654.9	689.0	732.0	782.6	829.9	882.8	937.8	1007.1
32.5°	465.6	481.0	504.1	530.5	570.2	615.3	668.1	718.8	791.4	859.6	925.7
35°	373.1	380.8	379.7	409.5	427.1	481.0	547.0	595.5	668.1	751.8	838.7
37.5°	293.9	292.8	299.4	303.8	325.8	361.0	412.8	475.5	559.2	649.4	736.4
40°	251.0	252.1	253.2	253.2	257.6	280.7	326.9	391.8	472.2	552.6	648.3
42.5°	231.1	233.3	234.4	236.7	238.9	246.6	279.6	340.1	408.4	494.2	580.1
45°	216.8	220.1	223.4	223.4	225.6	227.8	246.6	292.8	361.0	442.5	532.7
47.5°	204.7	208.0	210.2	211.3	213.5	215.7	225.6	257.6	323.6	397.4	490.9
50°	187.1	190.4	192.6	195.9	195.9	195.9	202.5	225.6	276.3	348.9	440.3
52.5°	172.8	175.0	178.3	180.5	181.6	182.7	186.0	199.2	237.8	306.0	391.8
55°	165.1	167.3	170.6	172.8	175.0	176.1	178.3	183.8	211.3	269.7	350.0
57.5°	155.2	158.5	162.9	165.1	167.3	168.4	169.5	171.7	190.4	234.4	300.5
60°	148.6	154.1	159.6	162.9	164.0	165.1	166.2	164.0	171.7	199.2	251.0
62.5°	140.9	146.4	150.8	155.2	156.3	157.4	158.5	155.2	154.1	167.3	195.9
65°	134.3	137.6	140.9	144.2	144.2	145.3	144.2	139.8	136.5	136.5	149.7
67.5°	125.5	127.7	131.0	132.1	132.1	132.1	131.0	129.9	124.4	122.2	124.4
70°	112.3	115.6	118.9	121.1	121.1	120.0	118.9	115.6	113.4	111.2	113.4
72.5°	100.2	104.6	105.7	106.8	105.7	105.7	105.7	103.5	104.6	104.6	105.7
75°	88.1	90.3	90.3	92.5	92.5	92.5	92.5	92.5	94.7	93.6	94.7
77.5°	74.8	75.9	78.1	78.1	78.1	79.3	81.5	81.5	83.7	84.8	84.8
80°	64.9	62.7	62.7	61.6	62.7	64.9	67.1	71.5	71.5	72.6	73.7
82.5°	51.7	47.3	45.1	47.3	47.3	48.4	52.8	57.2	57.2	60.5	61.6
85°	39.6	34.1	29.7	31.9	31.9	34.1	38.5	40.7	44.0	45.1	44.0
87.5°	23.1	19.8	13.2	11.0	13.2	16.5	17.6	19.8	16.5	18.7	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P141575
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1134.8	1134.8	1129.3	1129.3	1130.4	1132.6	1127.1	1126.0	1127.1	1126.0	1124.9
5°	1164.5	1161.2	1160.1	1157.9	1156.8	1159.0	1153.5	1153.5	1152.4	1150.2	1146.9
7.5°	1197.6	1195.4	1193.2	1191.0	1188.8	1189.9	1184.4	1183.3	1182.2	1181.1	1177.7
10°	1228.4	1225.1	1222.9	1217.4	1213.0	1208.6	1197.6	1194.3	1191.0	1188.8	1187.7
12.5°	1253.7	1250.4	1242.7	1232.8	1226.2	1215.2	1206.4	1198.7	1195.4	1192.1	1193.2
15°	1277.9	1271.3	1261.4	1249.3	1242.7	1231.7	1225.1	1221.8	1219.6	1217.4	1219.6
17.5°	1285.6	1287.8	1282.3	1279.0	1274.6	1270.2	1271.3	1274.6	1281.2	1281.2	1281.2
20°	1271.3	1295.5	1310.9	1323.0	1332.9	1339.6	1340.7	1344.0	1351.7	1355.0	1371.5
22.5°	1237.2	1299.9	1351.7	1393.5	1419.9	1428.7	1438.6	1449.6	1450.7	1454.0	1469.4
25°	1205.3	1296.6	1373.7	1439.7	1501.4	1544.3	1568.5	1590.5	1596.0	1600.4	1600.4
27.5°	1149.1	1250.4	1349.5	1437.5	1522.3	1593.8	1649.9	1707.2	1746.8	1761.1	1782.0
30°	1089.7	1196.5	1298.8	1410.0	1517.9	1618.0	1719.3	1811.8	1876.7	1925.1	1963.6
32.5°	1014.8	1130.4	1247.1	1368.2	1497.0	1622.4	1757.8	1892.1	2015.4	2112.2	2171.7
35°	936.7	1057.8	1178.8	1312.0	1457.3	1609.2	1782.0	1960.3	2125.5	2282.9	2418.2
37.5°	850.8	965.3	1097.4	1249.3	1405.6	1587.2	1788.6	2009.9	2238.8	2464.5	2639.5
40°	752.9	864.0	991.7	1151.3	1340.7	1545.4	1785.3	2048.4	2335.7	2616.4	2898.1
42.5°	685.7	788.1	910.3	1071.0	1263.6	1498.1	1772.1	2083.6	2423.7	2771.6	3126.0
45°	635.1	735.3	855.2	1009.3	1205.3	1451.8	1767.7	2123.3	2516.2	2914.7	3328.5
47.5°	591.1	694.5	810.1	962.0	1151.3	1410.0	1757.8	2156.3	2593.2	3024.7	3504.6
50°	548.1	653.8	772.7	925.7	1111.7	1364.9	1735.8	2186.0	2665.9	3139.2	3649.9
52.5°	500.8	605.4	733.1	889.4	1086.4	1336.2	1712.7	2210.2	2736.3	3261.4	3800.7
55°	450.2	555.9	681.3	846.4	1052.3	1314.2	1689.6	2225.6	2810.1	3371.4	3936.1
57.5°	395.2	500.8	623.0	791.4	1010.4	1284.5	1664.3	2224.5	2864.0	3474.9	4082.5
60°	328.0	423.8	544.8	714.4	937.8	1242.7	1643.3	2215.7	2902.5	3566.3	4245.4
62.5°	249.9	331.3	442.5	601.0	833.2	1162.3	1588.3	2178.3	2906.9	3632.3	4380.8
65°	178.3	222.3	310.4	468.9	661.5	982.9	1455.1	2079.2	2834.3	3585.0	4392.9
67.5°	136.5	160.7	203.6	298.3	468.9	748.5	1226.2	1856.9	2608.7	3332.9	4190.4
70°	117.8	129.9	153.0	194.8	293.9	485.4	868.5	1467.2	2148.6	2867.3	3599.3
72.5°	109.0	116.7	131.0	151.9	187.1	286.2	534.9	986.2	1578.4	2186.0	2826.6
75°	100.2	107.9	118.9	132.1	149.7	191.5	291.7	580.1	974.1	1444.1	1899.8
77.5°	89.2	95.8	110.1	122.2	133.2	149.7	186.0	322.5	536.0	864.0	1137.0
80°	74.8	81.5	92.5	111.2	122.2	133.2	145.3	198.1	296.1	446.9	583.4
82.5°	61.6	64.9	73.7	90.3	100.2	105.7	109.0	128.8	168.4	220.1	321.4
85°	42.9	42.9	49.5	58.3	66.0	61.6	62.7	66.0	87.0	122.2	246.6
87.5°	16.5	12.1	15.4	18.7	18.7	17.6	20.9	19.8	27.5	51.7	70.4
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: ECM-F04-LED-E1-SLR

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	0°
2.5°	1124.9	1124.9	1123.8	1122.7	1121.6	1121.6	1119.4	1122.7	1121.6	1122.7	1123.8	2.5°
5°	1148.0	1145.8	1143.6	1141.4	1141.4	1139.2	1135.9	1134.8	1130.4	1129.3	1126.0	5°
7.5°	1181.1	1181.1	1181.1	1178.8	1174.4	1168.9	1162.3	1157.9	1145.8	1137.0	1127.1	7.5°
10°	1189.9	1192.1	1193.2	1194.3	1189.9	1188.8	1181.1	1172.2	1157.9	1144.7	1131.5	10°
12.5°	1193.2	1197.6	1198.7	1199.8	1196.5	1194.3	1186.6	1181.1	1168.9	1155.7	1149.1	12.5°
15°	1224.0	1231.7	1240.5	1239.4	1249.3	1238.3	1231.7	1232.8	1219.6	1205.3	1200.9	15°
17.5°	1303.2	1306.5	1325.2	1326.3	1341.8	1346.2	1335.1	1323.0	1315.3	1306.5	1287.8	17.5°
20°	1389.1	1413.3	1419.9	1452.9	1468.3	1476.0	1477.1	1477.1	1462.8	1424.3	1408.9	20°
22.5°	1482.6	1519.0	1558.6	1579.5	1611.4	1615.8	1632.3	1622.4	1611.4	1581.7	1546.5	22.5°
25°	1633.4	1654.4	1689.6	1742.4	1757.8	1789.7	1783.1	1797.4	1773.2	1721.5	1700.6	25°
27.5°	1801.8	1838.2	1887.7	1937.2	1959.2	1994.5	1972.5	1994.5	1954.8	1940.5	1889.9	27.5°
30°	1985.7	2035.2	2123.3	2184.9	2230.0	2254.2	2239.9	2227.8	2216.8	2190.4	2187.1	30°
32.5°	2211.3	2270.7	2354.4	2434.7	2514.0	2596.6	2616.4	2634.0	2674.7	2594.3	2516.2	32.5°
35°	2489.8	2534.9	2628.5	2720.9	2829.9	2933.4	3104.0	3146.9	3091.9	2996.1	2870.6	35°
37.5°	2761.7	2864.0	2957.6	3067.7	3149.1	3268.0	3343.9	3428.7	3382.5	3293.3	3149.1	37.5°
40°	3095.2	3233.9	3361.5	3496.9	3589.4	3681.8	3824.9	3917.4	3908.6	3797.4	3602.6	40°
42.5°	3401.2	3621.3	3832.6	3933.9	4057.2	4224.5	4330.2	4477.6	4487.6	4358.8	4111.1	42.5°
45°	3721.5	3977.9	4235.5	4434.7	4539.3	4746.2	4988.4	5149.1	5198.6	4953.1	4700.0	45°
47.5°	3972.4	4372.0	4717.6	4930.0	5124.9	5338.4	5649.9	5882.1	5862.3	5531.0	5196.4	47.5°
50°	4192.6	4701.1	5119.4	5469.4	5702.7	5949.3	6359.8	6637.2	6540.4	6118.8	5700.5	50°
52.5°	4391.8	4988.4	5505.7	5939.4	6211.2	6563.5	7081.9	7324.1	7048.9	6641.6	6124.3	52.5°
55°	4574.5	5248.1	5849.1	6370.9	6790.2	7244.8	7731.3	7897.5	7505.7	7002.7	6527.2	55°
57.5°	4742.9	5489.2	6165.0	6791.3	7353.8	7896.4	8320.2	8331.2	7839.2	7281.1	6827.6	57.5°
60°	4945.4	5710.4	6495.2	7227.2	7912.9	8476.5	8724.1	8646.0	8053.8	7489.2	7034.6	60°
62.5°	5141.4	5909.7	6764.9	7646.6	8473.2	8965.2	9014.7	8849.6	8201.3	7586.0	7189.8	62.5°
65°	5238.2	6061.6	6915.7	7912.9	8911.3	9256.9	9196.3	8937.7	8260.8	7600.3	7229.4	65°
67.5°	5096.2	5919.6	6771.5	7797.4	8909.1	9238.2	9081.9	8769.3	8116.6	7405.5	7045.6	67.5°
70°	4573.4	5371.4	6066.0	7031.3	8281.7	8606.4	8371.9	8062.6	7516.7	6821.0	6657.0	70°
72.5°	3848.0	4440.2	5021.4	5734.6	6592.1	6876.1	6566.8	6720.9	6580.0	5906.4	5756.7	72.5°
75°	2888.2	3441.9	3668.6	3887.7	4479.8	4649.4	4530.5	5058.8	5203.0	4922.3	4540.4	75°
77.5°	1889.9	2471.1	2512.9	2517.3	2759.5	3084.2	3514.5	4063.8	4336.8	4210.2	3746.8	77.5°
80°	1101.8	1741.3	1557.5	1498.1	1712.7	2074.8	2642.8	3330.7	3691.7	3718.2	3275.7	80°
82.5°	553.7	1091.9	945.5	935.6	1056.7	1324.1	1739.1	2123.3	2593.2	2615.3	2673.6	82.5°
85°	430.4	750.7	768.3	833.2	918.0	1029.2	1060.0	1128.2	1390.2	1632.3	1695.1	85°
87.5°	223.4	552.6	651.6	758.4	748.5	613.1	517.3	558.1	649.4	684.6	889.4	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
1121.6	1123.8	1122.7	1123.8	1124.9	1124.9	1123.8
1120.5	1119.4	1115.0	1112.8	1112.8	1110.6	1109.5
1113.9	1106.2	1095.2	1088.6	1084.2	1080.9	1075.4
1115.0	1101.8	1087.5	1077.6	1067.7	1061.1	1054.5
1129.3	1112.8	1099.6	1084.2	1076.5	1067.7	1060.0
1178.8	1156.8	1141.4	1127.1	1118.3	1111.7	1105.1
1258.1	1231.7	1206.4	1193.2	1177.7	1166.7	1165.6
1364.9	1326.3	1293.3	1263.6	1249.3	1231.7	1228.4
1485.9	1429.8	1394.6	1361.6	1341.8	1320.8	1321.9
1640.0	1583.9	1526.7	1492.5	1463.9	1467.2	1463.9
1825.0	1780.9	1714.9	1673.1	1664.3	1630.1	1604.8
2113.3	2047.3	1967.0	1892.1	1844.8	1788.6	1735.8
2396.2	2274.0	2167.3	2094.6	2034.1	1951.5	1869.0
2675.8	2534.9	2435.8	2374.2	2280.7	2165.1	2036.3
3008.2	2915.8	2845.3	2694.5	2561.3	2384.1	2189.3
3488.1	3371.4	3203.0	3011.5	2818.9	2567.9	2301.6
3965.8	3824.9	3589.4	3307.6	3031.3	2728.6	2389.6
4484.3	4212.4	3905.3	3564.1	3224.0	2848.6	2450.2
4892.6	4553.6	4170.6	3761.1	3376.9	2947.7	2503.0
5309.8	4900.3	4419.3	3958.1	3515.6	3028.0	2555.8
5637.8	5181.0	4673.6	4137.5	3644.4	3118.3	2628.5
5965.8	5460.6	4901.4	4316.9	3804.0	3243.8	2737.4
6238.8	5713.7	5121.6	4512.9	3988.9	3411.1	2915.8
6598.7	6069.3	5380.2	4745.1	4198.1	3638.9	3141.4
6941.0	6486.4	5740.1	5018.1	4453.4	3896.5	3397.9
7166.7	6957.5	6108.9	5292.2	4693.4	4137.5	3623.5
7171.1	7256.9	6497.4	5514.5	4917.9	4399.5	3808.4
6998.2	7298.7	6580.0	5534.3	5024.7	4516.2	3905.3
6400.6	6783.6	6085.8	5143.6	4826.6	4424.8	3798.5
4950.9	5228.3	4867.3	4359.9	4370.9	4136.4	3380.2
3427.6	3689.5	3385.8	3277.9	3518.9	3388.0	2523.9
2596.6	2258.6	2139.8	2197.0	2497.5	2483.2	1587.2
2312.6	1709.4	1417.7	1488.1	1763.3	1610.3	883.9
1896.5	1705.0	1425.4	1288.9	1344.0	1099.6	604.3
1091.9	1247.1	1015.9	957.6	833.2	495.3	245.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)