

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: LUMARK

Report Number: P210679

Luminaire Tested: **WPSLED-30-GL-UNV-7050**

Test Date: 10/26/16

**Test Information**

Test Method: LM-79-08  
Report Number: P210679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29004)  
Test Lab: INNOVATION CENTER-P2  
Test Date: 10/26/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPSLED-30-GL-UNV-7050  
Description: LED WALL PACK  
Light Source: (1) CITIZEN 5000K LED  
CLU038-1208  
Ballast/Driver: (1) IPP ELECTRONIC DRIVER  
IPP LP1030-42-C0700

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3434.8 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.42' x H: 0.42')  
IES Classification: Type I - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3  
  
Input Watts (W): 27.2  
Input Voltage (V): 120.1  
Input Current (Ain): 0.228  
Voltage Rise (V): NR  
Power Factor: 0.9964  
Total Harmonic Distortion (THDi): 6.73%  
Frequency (hertz): 60  
Stabilization Time: 1 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.9  
Test Distance: 25 FT

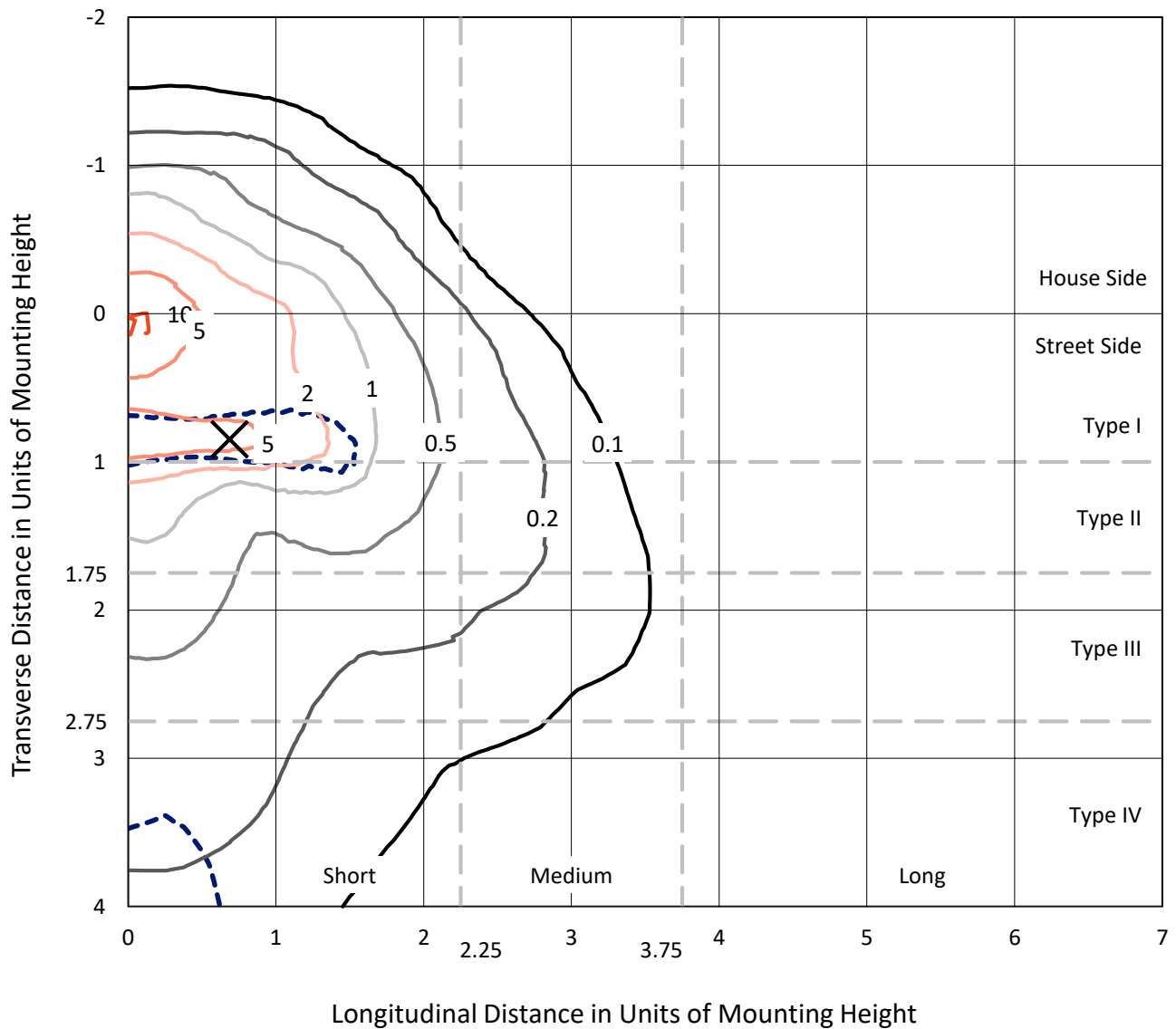


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### Iso-Footcandle Lines of Horizontal Illumination

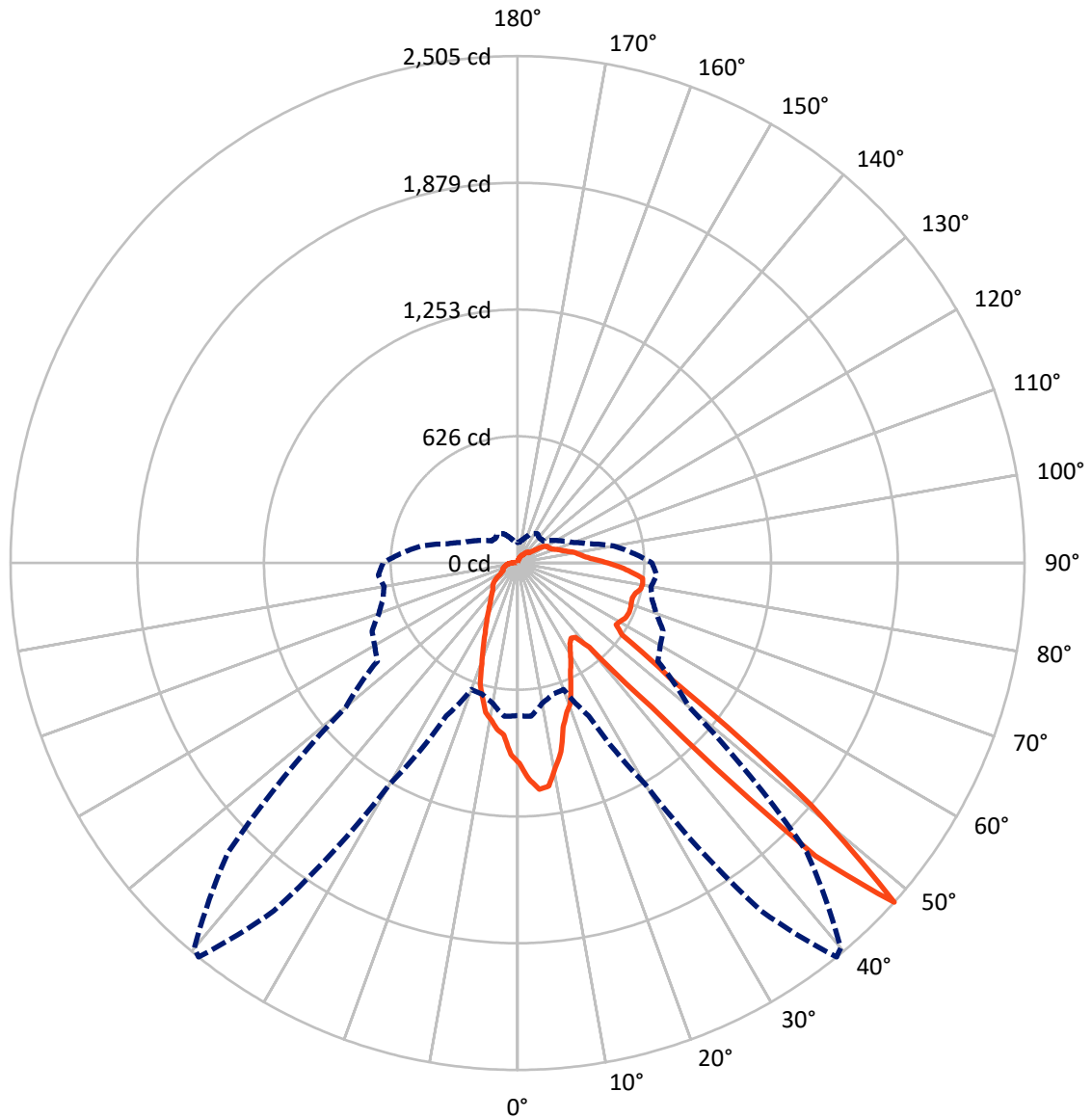
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type I - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 47.5-Deg Vertical

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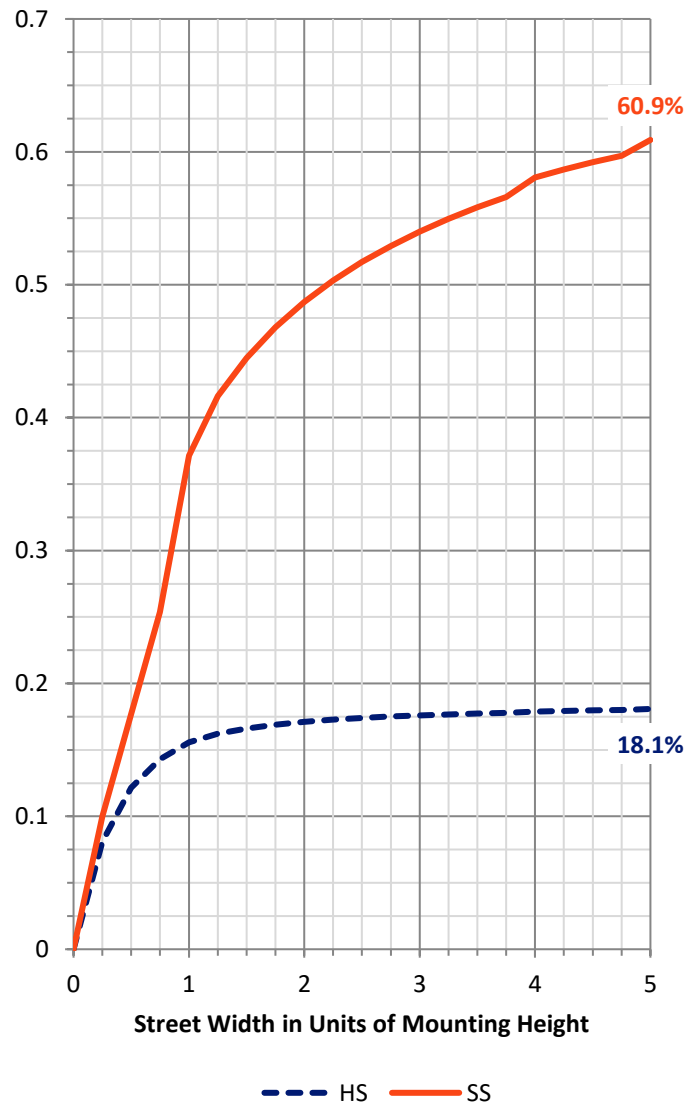
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	636.0	33.9	669.9
	% Fixture	18.5	1.0	19.5
<b>Street Side</b>	Lumens	2291.3	473.6	2764.9
	% Fixture	66.7	13.8	80.5
<b>Total</b>	Lumens	2927.2	507.5	3434.8
	% Fixture	85.2	14.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	2.7
10°-20°	220.9	6.4
20°-30°	255.0	7.4
30°-40°	316.6	9.2
40°-50°	516.0	15.0
50°-60°	446.0	13.0
60°-70°	388.5	11.3
70°-80°	386.9	11.3
80°-90°	304.3	8.9
90°-100°	197.6	5.8
100°-110°	126.4	3.7
110°-120°	80.1	2.3
120°-130°	52.8	1.5
130°-140°	26.8	0.8
140°-150°	15.0	0.4
150°-160°	7.0	0.2
160°-170°	1.8	0.1
170°-180°	0.0	0.0
0°-90°	2927.2	85.2
0°-180°	3434.8	100.0



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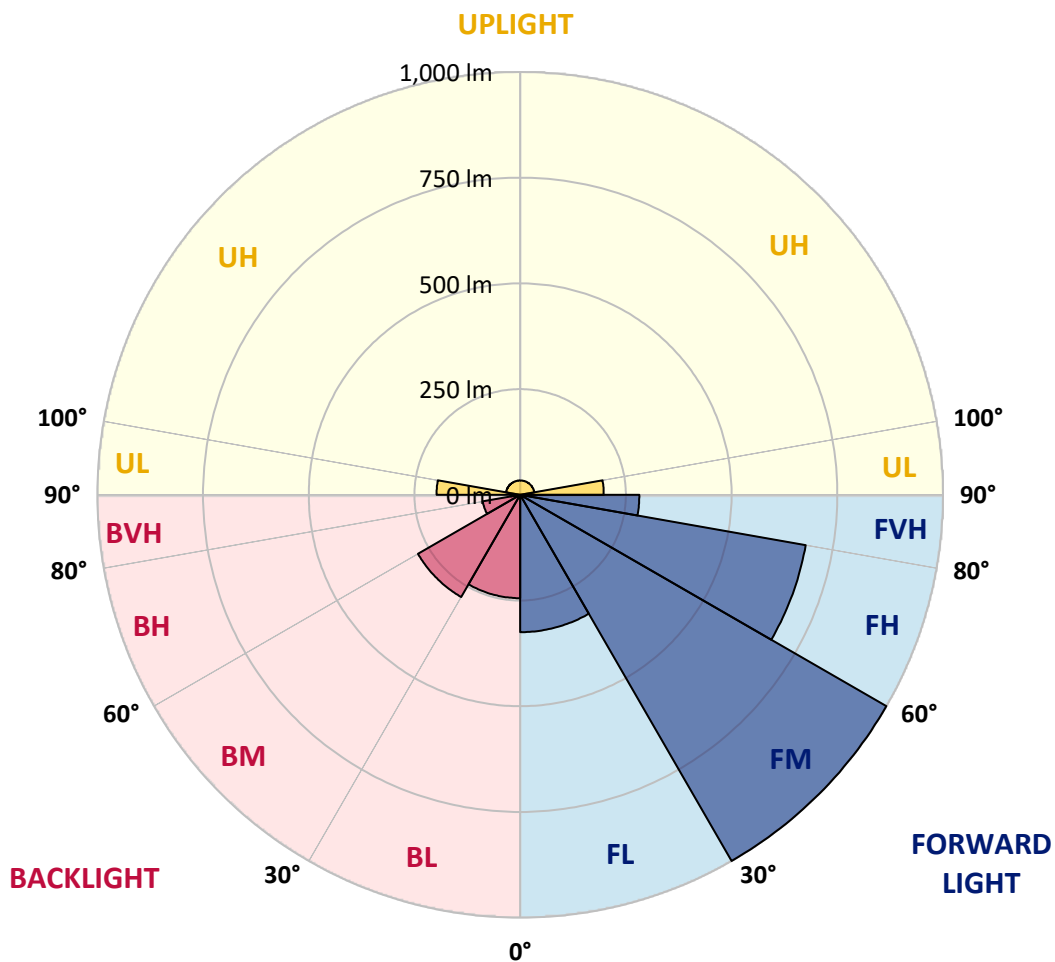
CATALOG NUMBER: WPSLED-30-GL-UNV-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.7	9.5			
FM (30°-60°)	999.6	29.1			
FH (60°-80°)	685.3	20.0			G1/1800
FVH (80°-90°)	281.6	8.2			G3/500
BL (0°-30°)	244.4	7.1	B1/500		
BM (30°-60°)	279.0	8.1	B1/1000		
BH (60°-80°)	90.0	2.6	B0/110		G0/110
BVH (80°-90°)	22.7	0.7			G1/100
UL (90°-100°)	197.6	5.8		U3/500	
UH (100°-180°)	33.9	1.0		U2/50	

**BUG Rating: B1-U3-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2
2.5°	1097.8	1088.7	1067.4	1083.6	1069.4	1079.6	1073.5	1073.5	1067.4	1076.5	1081.6
5°	1125.3	1121.2	1102.9	1123.2	1110.0	1125.3	1122.2	1124.2	1123.2	1131.4	1138.5
7.5°	1057.2	1055.2	1045.0	1066.4	1055.2	1079.6	1084.6	1100.9	1113.1	1120.2	1138.5
10°	934.3	941.4	938.4	964.8	962.8	992.2	1000.3	1012.5	1027.8	1033.9	1067.4
12.5°	821.6	822.6	815.5	843.9	846.0	876.4	897.8	929.2	956.7	962.8	995.3
15°	786.1	789.1	782.0	802.3	795.2	807.4	804.3	816.5	842.9	849.0	901.8
17.5°	722.1	728.2	725.1	749.5	753.6	780.0	786.1	785.0	781.0	782.0	799.3
20°	704.8	705.8	697.7	716.0	706.8	719.0	729.2	740.4	743.4	743.4	735.3
22.5°	640.8	649.0	649.0	671.3	665.2	675.4	670.3	665.2	675.4	678.4	685.5
25°	592.1	600.2	604.3	630.7	631.7	642.9	633.7	611.4	607.3	606.3	622.6
27.5°	588.0	592.1	586.0	602.2	594.1	594.1	578.9	565.7	560.6	557.6	563.6
30°	643.9	640.8	610.4	610.4	577.9	551.5	534.2	520.0	514.9	511.8	512.9
32.5°	774.9	768.8	715.0	683.5	598.2	537.2	509.8	485.4	475.3	470.2	469.2
35°	1124.2	1094.8	943.5	846.0	703.8	596.1	524.0	483.4	456.0	446.8	435.7
37.5°	1639.1	1605.6	1465.5	1398.4	1080.6	771.8	617.5	526.1	466.2	449.9	418.4
40°	1983.4	1997.6	1958.0	2022.0	1863.6	1556.9	1018.6	683.5	546.4	509.8	444.8
42.5°	1723.4	1714.3	1723.4	1940.8	2067.7	2130.7	1885.9	1431.0	971.9	852.1	653.0
45°	1214.6	1181.1	1110.0	1223.8	1376.1	1820.9	1990.5	2170.3	2064.7	1880.8	1131.4
47.5°	753.6	760.7	703.8	671.3	665.2	833.8	1261.4	2099.2	2505.4	2485.1	2022.0
50°	620.5	633.7	594.1	542.3	512.9	530.1	610.4	1138.5	1880.8	2001.7	2485.1
52.5°	564.7	576.8	549.4	494.6	464.1	455.0	458.0	561.6	939.4	1053.2	1941.8
55°	574.8	589.0	569.7	512.9	466.2	422.5	384.9	434.7	626.6	671.3	1047.1
57.5°	611.4	633.7	611.4	550.4	484.4	416.4	372.7	406.2	574.8	598.2	776.9
60°	657.1	671.3	637.8	577.9	505.8	430.6	392.0	424.5	584.0	608.3	747.5
62.5°	695.7	718.0	676.4	615.4	540.3	462.1	420.4	445.8	598.2	630.7	769.8
65°	759.6	789.1	750.5	674.3	577.9	489.5	450.9	467.2	603.2	638.8	766.8
67.5°	821.6	841.9	801.3	720.0	610.4	525.0	487.5	491.5	602.2	632.7	753.6
70°	931.3	962.8	890.7	804.3	671.3	569.7	524.0	510.8	596.1	618.5	720.0
72.5°	1066.4	1087.7	1025.7	895.7	733.2	623.6	571.8	545.4	593.1	606.3	697.7
75°	1173.0	1185.2	1100.9	989.2	814.5	698.7	629.7	575.8	601.2	615.4	683.5
77.5°	1182.1	1208.5	1114.1	999.3	834.8	738.3	689.6	624.6	621.5	624.6	651.0
80°	1058.2	1111.0	1026.8	930.3	789.1	728.2	700.8	647.9	627.6	622.6	635.8
82.5°	952.6	1011.5	951.6	860.2	718.0	664.2	644.9	626.6	623.6	613.4	610.4
85°	807.4	865.3	827.7	752.5	634.7	600.2	592.1	569.7	561.6	550.4	581.9
87.5°	787.1	835.8	781.0	700.8	571.8	524.0	513.9	510.8	501.7	489.5	523.0
90°	704.8	745.4	709.9	644.9	530.1	489.5	466.2	448.9	432.6	425.5	459.0
92.5°	677.4	717.0	667.2	601.2	487.5	445.8	424.5	397.1	371.7	362.6	396.1
95°	658.1	686.5	641.8	582.9	467.2	419.4	390.0	359.5	332.1	324.0	330.1
97.5°	598.2	625.6	592.1	540.3	434.7	390.0	364.6	338.2	307.7	298.6	296.6
100°	530.1	557.6	534.2	490.5	398.1	355.4	335.1	314.8	286.4	274.2	260.0
102.5°	479.4	503.7	478.3	443.8	362.6	323.0	304.7	284.4	254.9	243.7	229.5
105°	430.6	451.9	431.6	404.2	329.0	290.5	275.2	259.0	229.5	218.4	204.1
107.5°	369.7	390.0	379.8	360.5	300.6	267.1	247.8	232.6	214.3	205.2	178.7
110°	309.8	320.9	313.8	304.7	262.0	238.7	230.5	218.4	193.0	184.8	164.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
112.5°	280.3	289.4	283.4	273.2	238.7	217.3	207.2	201.1	180.8	173.7	153.4
115°	243.7	249.8	240.7	233.6	211.2	194.0	193.0	193.0	172.6	164.5	145.2
117.5°	232.6	236.6	230.5	222.4	206.2	187.9	179.8	182.8	169.6	162.5	139.1
120°	215.3	223.4	220.4	210.2	197.0	187.9	175.7	173.7	164.5	156.4	132.0
122.5°	194.0	204.1	207.2	199.0	186.9	179.8	168.6	160.5	148.3	142.2	120.8
125°	168.6	175.7	180.8	178.7	168.6	159.4	144.2	136.1	120.8	115.8	103.6
127.5°	130.0	135.1	137.1	139.1	129.0	121.9	109.7	104.6	96.5	93.4	88.4
130°	91.4	93.4	94.4	91.4	89.4	86.3	82.3	83.3	80.2	78.2	79.2
132.5°	73.1	75.2	75.2	74.1	72.1	73.1	72.1	74.1	74.1	74.1	77.2
135°	68.0	69.1	69.1	68.0	67.0	69.1	68.0	72.1	73.1	73.1	76.2
137.5°	63.0	64.0	64.0	65.0	65.0	68.0	67.0	72.1	72.1	71.1	75.2
140°	58.9	59.9	60.9	62.0	63.0	64.0	64.0	68.0	68.0	67.0	68.0
142.5°	55.9	56.9	57.9	57.9	57.9	58.9	58.9	62.0	59.9	58.9	57.9
145°	56.9	56.9	55.9	53.8	51.8	51.8	51.8	52.8	50.8	50.8	48.8
147.5°	58.9	57.9	53.8	50.8	46.7	46.7	45.7	46.7	44.7	43.7	44.7
150°	52.8	53.8	51.8	48.8	46.7	45.7	42.6	43.7	43.7	42.6	42.6
152.5°	47.7	49.8	50.8	50.8	49.8	48.8	44.7	43.7	41.6	40.6	38.6
155°	46.7	47.7	47.7	47.7	46.7	46.7	41.6	38.6	34.5	33.5	29.4
157.5°	44.7	45.7	44.7	43.7	40.6	38.6	35.6	33.5	29.4	28.4	23.4
160°	37.6	38.6	38.6	38.6	37.6	36.6	32.5	28.4	23.4	22.3	17.3
162.5°	28.4	28.4	28.4	28.4	26.4	24.4	22.3	20.3	17.3	16.2	13.2
165°	22.3	22.3	21.3	20.3	19.3	17.3	15.2	14.2	11.2	11.2	8.1
167.5°	14.2	14.2	14.2	13.2	11.2	11.2	9.1	7.1	4.1	3.0	1.0
170°	5.1	5.1	5.1	4.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2
2.5°	1055.2	1049.1	1035.9	1028.8	1031.8	1023.7	1008.5	1020.7	1002.4	990.2	989.2
5°	1114.1	1111.0	1095.8	1086.7	1087.7	1071.4	1046.0	1050.1	1025.7	1010.5	1004.4
7.5°	1125.3	1126.3	1114.1	1109.0	1111.0	1094.8	1061.3	1057.2	1027.8	1010.5	998.3
10°	1072.4	1093.8	1096.8	1101.9	1103.9	1088.7	1053.2	1038.9	1005.4	981.0	956.7
12.5°	993.2	1016.6	1032.8	1055.2	1065.3	1053.2	1018.6	1005.4	968.9	942.5	917.1
15°	914.0	927.2	937.4	972.9	998.3	993.2	963.8	948.6	910.0	877.5	845.0
17.5°	810.4	833.8	845.0	879.5	924.2	933.3	905.9	890.7	851.0	811.4	764.7
20°	718.0	739.3	751.5	780.0	839.9	877.5	861.2	848.0	809.4	760.7	714.0
22.5°	656.1	665.2	681.4	704.8	758.6	813.5	812.5	804.3	762.7	706.8	679.4
25°	618.5	615.4	620.5	639.8	675.4	737.3	754.6	759.6	721.1	665.2	639.8
27.5°	567.7	564.7	568.7	581.9	607.3	667.2	696.7	716.0	674.3	630.7	592.1
30°	515.9	520.0	516.9	530.1	543.3	597.2	634.7	667.2	628.6	596.1	548.4
32.5°	468.2	483.4	478.3	488.5	500.7	548.4	588.0	629.7	601.2	565.7	521.0
35°	432.6	453.0	457.0	482.4	498.6	534.2	565.7	608.3	592.1	538.3	496.6
37.5°	419.4	461.1	497.6	536.2	556.5	567.7	586.0	629.7	611.4	538.3	489.5
40°	480.4	556.5	616.5	643.9	636.8	639.8	641.8	659.1	629.7	547.4	474.3
42.5°	598.2	664.2	717.0	720.0	690.6	689.6	672.3	676.4	653.0	546.4	461.1
45°	770.8	724.1	759.6	755.6	709.9	691.6	659.1	687.6	668.2	568.7	468.2
47.5°	1107.0	846.0	814.5	793.2	728.2	687.6	669.3	690.6	664.2	569.7	482.4
50°	1892.0	1049.1	937.4	863.2	763.7	719.0	697.7	692.6	636.8	582.9	469.2
52.5°	2296.2	1493.9	1055.2	934.3	828.7	772.8	716.0	660.1	613.4	540.3	467.2
55°	1853.4	1672.7	1158.8	951.6	883.6	816.5	712.9	630.7	577.9	482.4	405.2
57.5°	1149.6	1559.9	1271.5	959.7	864.3	812.5	684.5	627.6	496.6	416.4	389.0
60°	978.0	1249.2	1176.0	959.7	836.8	756.6	665.2	567.7	479.4	381.9	301.6
62.5°	901.8	1063.3	995.3	901.8	790.1	703.8	627.6	506.8	375.8	311.8	237.6
65°	833.8	923.2	866.3	869.3	749.5	668.2	548.4	421.5	366.6	263.0	185.8
67.5°	765.8	839.9	824.6	806.4	721.1	607.3	490.5	395.1	287.4	196.0	147.3
70°	725.1	793.2	810.4	734.3	687.6	510.8	363.6	335.1	237.6	147.3	121.9
72.5°	697.7	789.1	803.3	671.3	607.3	466.2	353.4	272.2	165.5	118.8	101.6
75°	670.3	769.8	764.7	654.0	499.7	370.7	288.4	194.0	119.8	94.4	87.3
77.5°	693.6	753.6	707.9	611.4	438.7	349.4	241.7	132.0	98.5	80.2	73.1
80°	696.7	712.9	640.8	503.7	382.9	284.4	168.6	103.6	76.2	70.1	63.0
82.5°	698.7	681.4	562.6	436.7	357.5	225.5	120.8	84.3	69.1	59.9	53.8
85°	630.7	635.8	498.6	375.8	294.5	161.5	95.5	71.1	60.9	53.8	43.7
87.5°	591.1	571.8	434.7	340.2	217.3	125.9	79.2	64.0	52.8	41.6	37.6
90°	507.8	513.9	400.1	299.6	164.5	102.6	72.1	56.9	46.7	34.5	33.5
92.5°	429.6	414.4	357.5	231.6	138.1	94.4	67.0	52.8	37.6	32.5	31.5
95°	378.8	370.7	296.6	188.9	120.8	86.3	60.9	49.8	34.5	30.5	31.5
97.5°	321.9	339.2	232.6	166.6	118.8	80.2	60.9	42.6	34.5	30.5	30.5
100°	274.2	272.2	201.1	146.2	109.7	74.1	54.8	40.6	34.5	30.5	28.4
102.5°	234.6	219.4	174.7	137.1	94.4	72.1	51.8	40.6	34.5	29.4	28.4
105°	184.8	182.8	153.4	124.9	85.3	67.0	50.8	40.6	34.5	30.5	28.4
107.5°	162.5	161.5	141.2	110.7	81.2	65.0	51.8	42.6	35.6	30.5	27.4
110°	146.2	141.2	121.9	97.5	78.2	64.0	51.8	43.7	35.6	29.4	26.4



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CATALOG NUMBER: WPSLED-30-GL-UNV-7050

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	132.0	123.9	104.6	88.4	75.2	64.0	53.8	45.7	35.6	29.4	26.4
115°	121.9	108.7	92.4	83.3	72.1	65.0	55.9	45.7	35.6	29.4	26.4
117.5°	113.7	98.5	85.3	79.2	71.1	66.0	57.9	45.7	35.6	29.4	25.4
120°	105.6	90.4	80.2	76.2	70.1	67.0	56.9	44.7	35.6	29.4	25.4
122.5°	95.5	85.3	77.2	74.1	71.1	66.0	53.8	42.6	35.6	29.4	24.4
125°	86.3	80.2	76.2	76.2	70.1	60.9	49.8	40.6	33.5	27.4	23.4
127.5°	79.2	80.2	78.2	75.2	66.0	56.9	45.7	37.6	30.5	25.4	21.3
130°	78.2	81.2	78.2	72.1	62.0	51.8	41.6	32.5	27.4	23.4	20.3
132.5°	79.2	80.2	74.1	67.0	56.9	48.8	37.6	29.4	24.4	20.3	18.3
135°	78.2	77.2	69.1	62.0	51.8	43.7	33.5	26.4	22.3	19.3	17.3
137.5°	73.1	71.1	62.0	55.9	46.7	39.6	29.4	23.4	19.3	16.2	15.2
140°	64.0	60.9	55.9	48.8	41.6	34.5	24.4	20.3	16.2	14.2	13.2
142.5°	53.8	52.8	47.7	42.6	37.6	30.5	21.3	17.3	14.2	12.2	11.2
145°	47.7	46.7	42.6	39.6	33.5	24.4	17.3	14.2	12.2	10.2	9.1
147.5°	42.6	43.7	39.6	34.5	26.4	18.3	14.2	11.2	10.2	8.1	7.1
150°	40.6	39.6	33.5	26.4	19.3	13.2	10.2	9.1	7.1	6.1	5.1
152.5°	34.5	30.5	24.4	18.3	13.2	9.1	8.1	7.1	6.1	5.1	4.1
155°	25.4	21.3	16.2	12.2	7.1	6.1	5.1	4.1	4.1	3.0	3.0
157.5°	18.3	14.2	10.2	6.1	3.0	3.0	3.0	3.0	3.0	2.0	2.0
160°	13.2	11.2	6.1	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0
162.5°	10.2	6.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P210679

CATALOG NUMBER: WPSLED-30-GL-UNV-7050

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2	989.2
2.5°	973.9	990.2	978.0	967.8	972.9	960.7	966.8	945.5	950.6	944.5	920.1
5°	984.1	993.2	969.9	942.5	934.3	904.9	888.6	853.1	848.0	833.8	809.4
7.5°	968.9	962.8	922.1	877.5	864.3	841.9	843.9	827.7	829.7	823.6	800.3
10°	912.0	894.7	855.1	834.8	840.9	828.7	823.6	788.1	777.9	767.8	751.5
12.5°	858.2	837.8	818.6	807.4	800.3	774.9	768.8	756.6	753.6	729.2	696.7
15°	788.1	794.2	775.9	748.5	738.3	733.2	724.1	689.6	679.4	668.2	639.8
17.5°	730.2	726.1	693.6	682.5	679.4	656.1	653.0	635.8	604.3	565.7	524.0
20°	677.4	649.0	631.7	613.4	602.2	598.2	571.8	532.2	510.8	480.4	444.8
22.5°	629.7	604.3	581.9	549.4	541.3	507.8	487.5	456.0	437.7	415.4	390.0
25°	573.8	563.6	531.2	504.7	473.3	439.8	417.4	389.0	379.8	373.7	357.5
27.5°	538.3	511.8	478.3	448.9	428.6	391.0	359.5	339.2	336.2	334.1	326.0
30°	493.6	464.1	419.4	401.2	381.9	345.3	320.9	300.6	297.6	295.5	294.5
32.5°	453.0	415.4	377.8	361.6	340.2	308.7	290.5	267.1	263.0	261.0	261.0
35°	433.6	377.8	346.3	327.0	305.7	278.3	259.0	239.7	232.6	245.8	234.6
37.5°	406.2	346.3	318.9	297.6	278.3	247.8	228.5	217.3	218.4	214.3	216.3
40°	380.8	326.0	293.5	276.2	255.9	222.4	206.2	200.1	197.0	207.2	209.2
42.5°	370.7	307.7	277.2	260.0	232.6	201.1	188.9	181.8	189.9	190.9	193.0
45°	370.7	297.6	263.0	240.7	211.2	184.8	173.7	172.6	178.7	185.8	178.7
47.5°	364.6	295.5	253.9	222.4	194.0	169.6	165.5	164.5	174.7	168.6	158.4
50°	382.9	294.5	242.7	205.2	174.7	158.4	156.4	157.4	156.4	147.3	124.9
52.5°	357.5	290.5	228.5	182.8	161.5	145.2	151.3	145.2	136.1	117.8	97.5
55°	348.3	272.2	207.2	165.5	145.2	135.1	135.1	127.0	110.7	95.5	77.2
57.5°	299.6	243.7	186.9	151.3	131.0	121.9	117.8	105.6	92.4	79.2	72.1
60°	240.7	206.2	167.6	136.1	118.8	105.6	100.5	92.4	81.2	75.2	69.1
62.5°	191.9	171.6	147.3	122.9	103.6	92.4	89.4	83.3	78.2	72.1	66.0
65°	153.4	140.2	130.0	108.7	92.4	84.3	83.3	78.2	76.2	70.1	64.0
67.5°	125.9	118.8	111.7	96.5	84.3	79.2	78.2	78.2	75.2	69.1	59.9
70°	109.7	101.6	95.5	85.3	79.2	76.2	78.2	77.2	72.1	64.0	53.8
72.5°	93.4	86.3	82.3	78.2	77.2	76.2	77.2	74.1	66.0	57.9	48.8
75°	78.2	74.1	72.1	74.1	75.2	75.2	73.1	68.0	59.9	51.8	47.7
77.5°	67.0	65.0	66.0	70.1	73.1	72.1	68.0	62.0	54.8	49.8	48.8
80°	55.9	58.9	62.0	67.0	71.1	67.0	62.0	56.9	51.8	48.8	45.7
82.5°	49.8	53.8	58.9	64.0	66.0	60.9	58.9	52.8	48.8	45.7	37.6
85°	43.7	48.8	54.8	59.9	59.9	55.9	51.8	46.7	43.7	36.6	27.4
87.5°	38.6	44.7	50.8	53.8	54.8	50.8	45.7	41.6	35.6	27.4	19.3
90°	35.6	40.6	44.7	47.7	49.8	44.7	38.6	33.5	26.4	18.3	10.2
92.5°	33.5	36.6	39.6	42.6	45.7	39.6	33.5	27.4	21.3	13.2	7.1
95°	32.5	33.5	36.6	39.6	41.6	34.5	29.4	23.4	17.3	10.2	5.1
97.5°	29.4	31.5	33.5	35.6	36.6	30.5	24.4	19.3	13.2	8.1	4.1
100°	27.4	29.4	31.5	32.5	32.5	26.4	20.3	16.2	11.2	6.1	3.0
102.5°	27.4	27.4	28.4	28.4	28.4	22.3	18.3	14.2	9.1	5.1	2.0
105°	25.4	26.4	25.4	24.4	24.4	19.3	16.2	12.2	8.1	4.1	1.0
107.5°	25.4	25.4	23.4	21.3	20.3	17.3	14.2	10.2	6.1	3.0	1.0
110°	24.4	23.4	21.3	19.3	18.3	15.2	12.2	9.1	5.1	2.0	1.0

REPORT NUMBER: P210679  
 CATALOG NUMBER: WPSLED-30-GL-UNV-7050

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
112.5°	23.4	22.3	20.3	18.3	16.2	13.2	11.2	7.1	4.1	2.0	1.0	0°
115°	23.4	21.3	19.3	16.2	14.2	12.2	9.1	6.1	4.1	2.0	1.0	2.5°
117.5°	22.3	20.3	18.3	16.2	13.2	11.2	8.1	6.1	3.0	2.0	1.0	5°
120°	21.3	19.3	17.3	14.2	12.2	10.2	7.1	5.1	3.0	2.0	1.0	7.5°
122.5°	20.3	18.3	15.2	13.2	11.2	8.1	6.1	4.1	2.0	1.0	1.0	10°
125°	19.3	17.3	14.2	12.2	10.2	7.1	5.1	3.0	2.0	1.0	1.0	12.5°
127.5°	18.3	16.2	13.2	11.2	8.1	6.1	4.1	3.0	2.0	1.0	1.0	15°
130°	17.3	15.2	12.2	9.1	7.1	5.1	4.1	3.0	2.0	1.0	1.0	17.5°
132.5°	15.2	13.2	11.2	8.1	6.1	4.1	3.0	2.0	2.0	1.0	1.0	20°
135°	14.2	12.2	10.2	7.1	5.1	4.1	3.0	2.0	2.0	1.0	1.0	22.5°
137.5°	12.2	10.2	8.1	6.1	5.1	3.0	3.0	2.0	2.0	1.0	1.0	25°
140°	10.2	9.1	7.1	5.1	4.1	3.0	2.0	2.0	2.0	1.0	1.0	27.5°
142.5°	9.1	7.1	5.1	4.1	3.0	3.0	2.0	2.0	2.0	1.0	1.0	30°
145°	7.1	6.1	4.1	3.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	32.5°
147.5°	5.1	4.1	4.1	3.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	35°
150°	4.1	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	37.5°
152.5°	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	40°
155°	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	42.5°
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	45°
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	47.5°
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	50°
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	52.5°
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	55°
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
989.2	989.2	989.2	989.2	989.2
927.2	918.1	916.0	915.0	914.0
810.4	805.4	803.3	801.3	795.2
798.2	790.1	785.0	780.0	774.9
753.6	744.4	739.3	732.2	729.2
685.5	673.3	670.3	662.2	658.1
615.4	585.0	573.8	559.6	553.5
504.7	482.4	471.2	457.0	453.0
426.5	407.2	399.1	386.9	381.9
380.8	370.7	364.6	355.4	349.4
352.4	346.3	341.2	332.1	326.0
321.9	317.9	315.8	306.7	301.6
288.4	284.4	286.4	280.3	273.2
272.2	260.0	253.9	247.8	243.7
235.6	237.6	241.7	241.7	237.6
225.5	227.5	230.5	225.5	219.4
213.3	216.3	222.4	212.3	204.1
200.1	198.0	194.0	180.8	172.6
177.7	167.6	152.3	140.2	132.0
141.2	124.9	112.7	103.6	101.6
106.6	93.4	86.3	81.2	77.2
82.3	75.2	73.1	70.1	68.0
72.1	70.1	68.0	65.0	64.0
69.1	66.0	63.0	58.9	57.9
66.0	62.0	57.9	54.8	52.8
62.0	56.9	53.8	51.8	51.8
57.9	51.8	50.8	52.8	53.8
52.8	47.7	48.8	51.8	53.8
48.8	45.7	48.8	51.8	49.8
46.7	46.7	50.8	50.8	48.8
48.8	45.7	46.7	48.8	47.7
45.7	40.6	40.6	42.6	41.6
38.6	33.5	39.6	35.6	34.5
30.5	30.5	31.5	29.4	28.4
22.3	20.3	20.3	20.3	20.3
14.2	11.2	12.2	11.2	12.2
4.1	2.0	2.0	2.0	2.0
2.0	1.0	1.0	1.0	1.0
2.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0	0.0
1.0	0.0	0.0	0.0	0.0

**CANDELA DISTRIBUTION:**

160°	
112.5°	1.0
115°	1.0
117.5°	1.0
120°	1.0
122.5°	1.0
125°	1.0
127.5°	1.0
130°	1.0
132.5°	1.0
135°	1.0
137.5°	1.0
140°	1.0
142.5°	1.0
145°	1.0
147.5°	1.0
150°	1.0
152.5°	1.0
155°	1.0
157.5°	1.0
160°	1.0
162.5°	1.0
165°	1.0
167.5°	1.0
170°	1.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



'210679

WPSLED-30-GL-UNV-7050

**TION (continued):**

165°	170°	175°	180°
1.0	0.0	1.0	0.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
1.0	1.0	1.0	1.0
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

(END OF REPORT)