

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P265613

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T3-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11279.2 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

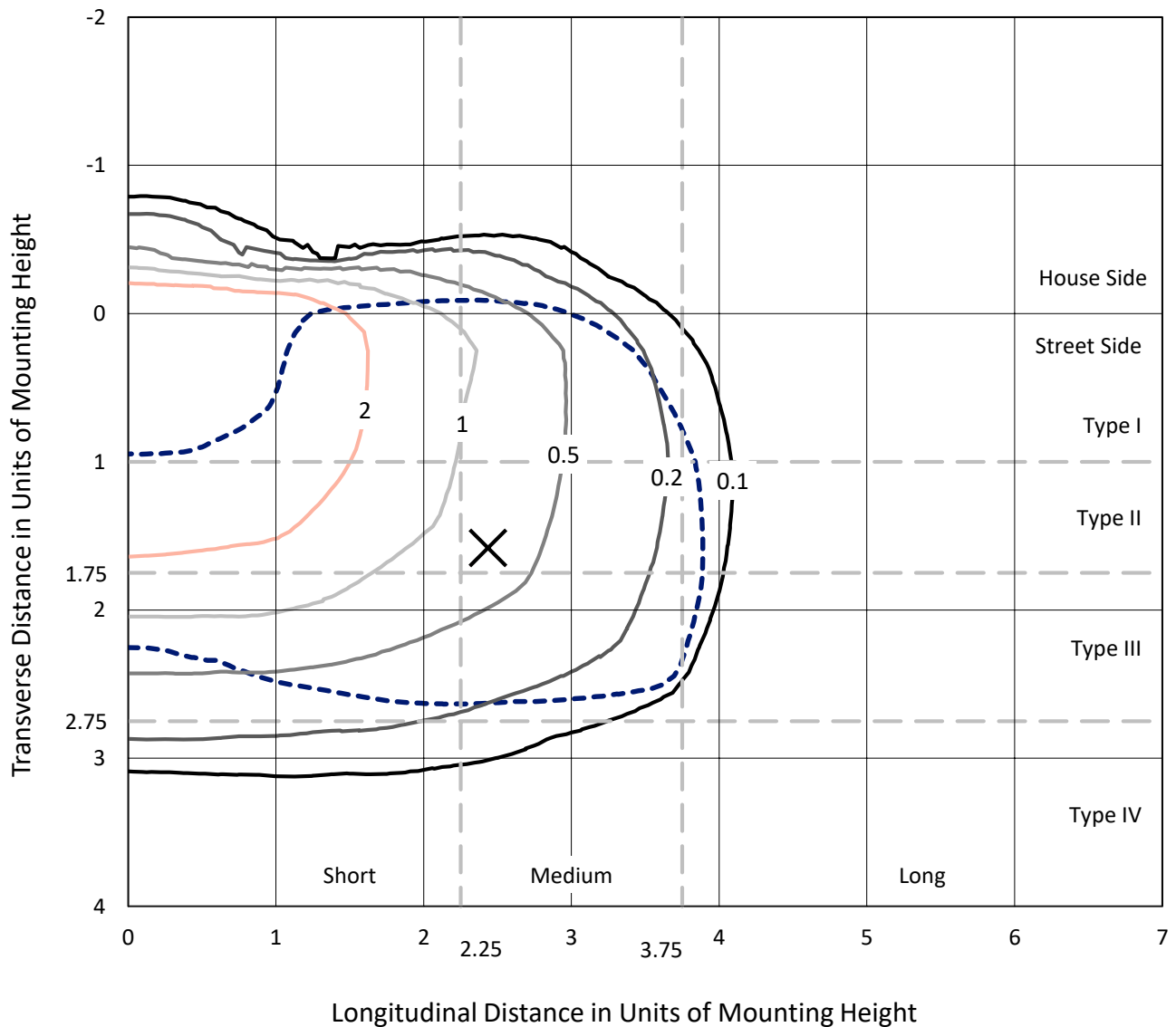


REPORT NUMBER: P265613

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T3-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

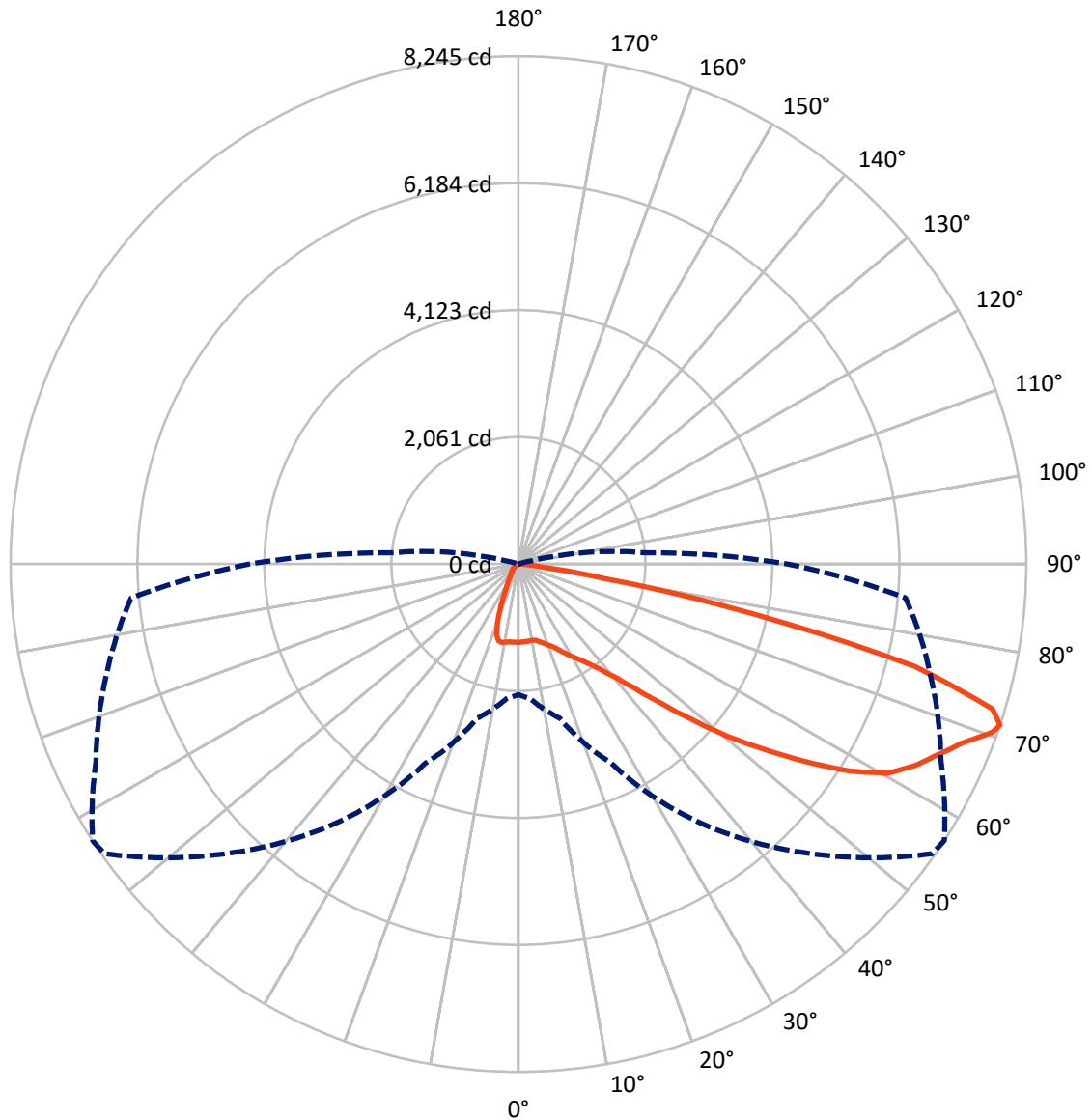


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P265613

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T3-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P265613

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T3-7027-HSS

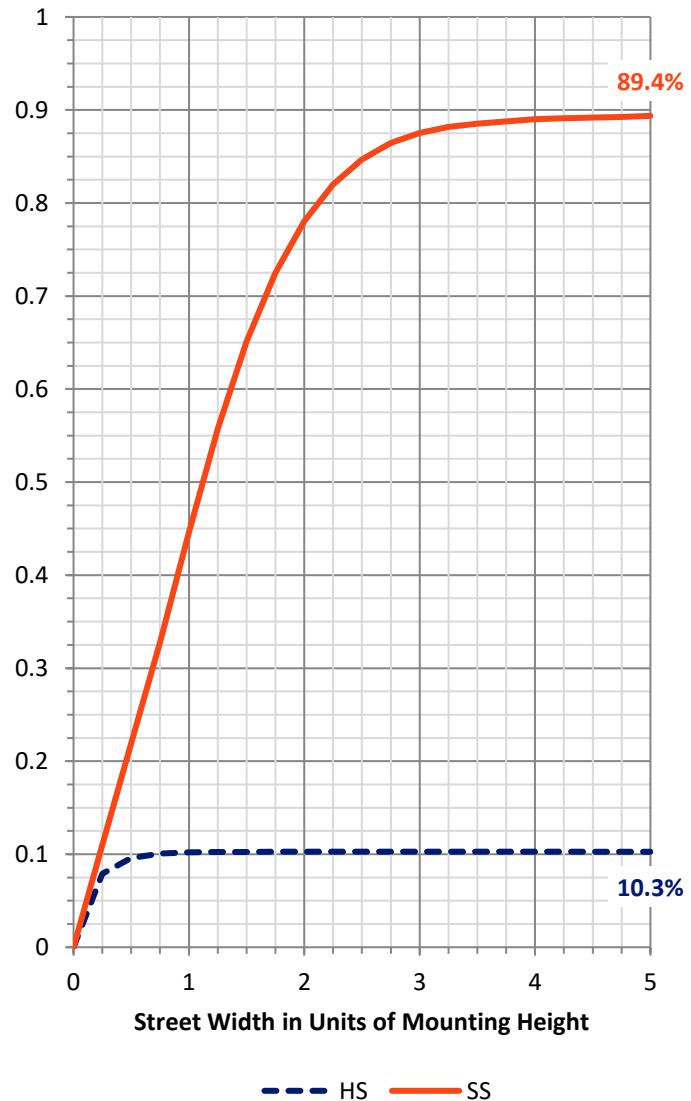
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.8	0.0	1168.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10110.3	0.0	10110.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	11279.2	0.0	11279.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.1
10°-20°	320.1	2.8
20°-30°	499.3	4.4
30°-40°	843.9	7.5
40°-50°	1639.2	14.5
50°-60°	2752.7	24.4
60°-70°	3285.0	29.1
70°-80°	1731.3	15.3
80°-90°	88.0	0.8
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°	11279.2	100.0
0°-180°	11279.2	100.0

Coefficient of Utilization



REPORT NUMBER: P265613

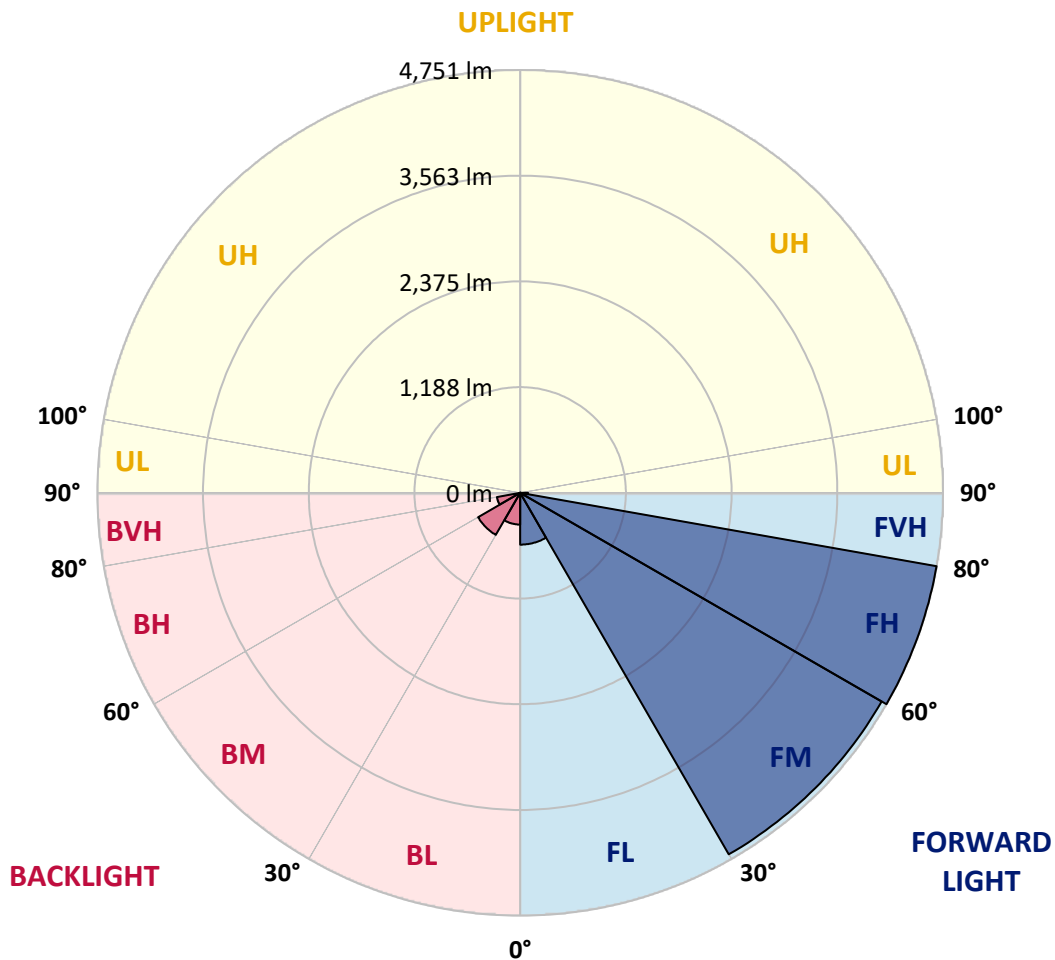
CATALOG NUMBER: ARCH-L-AF72-130-D-U-T3-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.3	5.2			
FM	(30°-60°)	4690.0	41.6			
FH	(60°-80°)	4750.9	42.1			G2/5000
FVH	(80°-90°)	87.1	0.8			G1/100
BL	(0°-30°)	356.8	3.2	B1/500		
BM	(30°-60°)	545.8	4.8	B1/1000		
BH	(60°-80°)	265.4	2.4	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P265613

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T3-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8
2.5°	1256.3	1256.3	1256.3	1259.0	1261.6	1261.6	1266.8	1264.3	1264.3	1264.3	1269.5
5°	1222.1	1224.7	1227.4	1232.7	1243.2	1251.1	1264.3	1264.3	1266.8	1272.1	1274.8
7.5°	1174.9	1177.5	1185.4	1195.9	1216.9	1235.3	1256.3	1261.6	1269.5	1282.6	1287.9
10°	1146.0	1151.2	1161.7	1174.9	1198.5	1222.1	1248.5	1256.3	1279.9	1303.6	1316.7
12.5°	1138.1	1140.7	1151.2	1172.2	1201.2	1230.0	1264.3	1272.1	1306.2	1343.1	1364.0
15°	1151.2	1153.9	1159.1	1182.7	1216.9	1253.7	1298.4	1308.9	1351.0	1393.0	1419.3
17.5°	1174.9	1174.9	1180.2	1201.2	1238.0	1279.9	1337.8	1353.6	1400.8	1448.2	1477.2
20°	1190.7	1190.7	1198.5	1219.4	1261.6	1316.7	1385.0	1406.1	1458.7	1511.3	1537.5
22.5°	1206.3	1208.9	1216.9	1240.6	1287.9	1364.0	1442.9	1464.0	1524.5	1579.6	1605.9
25°	1251.1	1248.5	1251.1	1272.1	1327.2	1421.8	1521.8	1548.0	1611.1	1671.6	1684.7
27.5°	1374.5	1369.3	1335.2	1322.0	1364.0	1482.4	1621.6	1647.9	1721.5	1782.0	1782.0
30°	1658.5	1647.9	1563.8	1456.1	1421.8	1537.5	1716.3	1753.0	1847.6	1900.3	1884.5
32.5°	2018.5	1994.9	1887.1	1703.1	1566.5	1611.1	1816.2	1858.2	1979.1	2023.8	1989.7
35°	2412.8	2410.2	2276.0	2039.5	1845.1	1763.6	1944.9	1994.9	2147.3	2186.7	2131.6
37.5°	2830.6	2841.2	2751.8	2426.0	2197.3	2013.3	2115.8	2173.5	2360.1	2407.5	2354.9
40°	3295.9	3293.2	3259.1	2872.7	2620.4	2368.1	2362.8	2415.5	2641.5	2714.9	2641.5
42.5°	3884.6	3879.3	3755.9	3408.9	3132.8	2830.6	2722.9	2741.3	2993.6	3114.6	3006.7
45°	4483.9	4447.1	4305.1	4005.5	3761.1	3403.7	3198.7	3198.7	3414.2	3579.7	3411.6
47.5°	4817.6	4780.9	4723.0	4557.5	4483.9	4084.4	3782.1	3745.4	3913.6	4081.7	3845.1
50°	5256.6	5256.6	5112.1	5049.0	5175.0	4893.8	4425.9	4389.3	4470.8	4604.7	4294.6
52.5°	5603.4	5540.4	5437.9	5493.1	5853.1	5724.4	5069.9	4999.0	5062.0	5096.3	4686.3
55°	5748.1	5687.6	5679.8	5882.1	6439.3	6260.6	5729.7	5666.6	5661.3	5493.1	5028.0
57.5°	5777.0	5724.4	5824.3	6179.1	7009.7	6699.5	6386.7	6339.3	6192.2	5771.7	5377.4
60°	5532.5	5558.8	5800.6	6342.0	7346.1	7080.6	6941.4	6891.3	6552.2	6008.3	5766.5
62.5°	5030.6	5093.6	5545.6	6357.8	7222.6	7235.7	7248.9	7214.6	6830.9	6223.7	6158.2
65°	4436.5	4455.0	4999.0	6139.6	7007.0	7188.3	7474.8	7472.2	7043.8	6465.6	6599.6
67.5°	3655.9	3687.5	4158.0	5403.8	6576.0	7167.3	7771.9	7764.0	7285.7	6741.6	6862.4
70°	2720.2	2759.8	3140.8	4202.6	5614.0	6904.6	8160.8	8166.1	7540.6	6951.9	6681.1
71°	2121.0	2192.0	2591.5	3569.2	5122.6	6639.1	8197.7	8245.0	7569.5	6922.9	6307.9
72.5°	1040.7	1124.9	1626.9	2512.6	4215.7	6045.1	7955.7	8047.8	7388.1	6562.8	5393.2
75°	270.7	286.5	486.3	1027.7	2260.3	4005.5	6415.6	6649.6	6039.8	4996.4	3295.9
77.5°	170.9	176.1	228.7	399.4	846.4	1521.8	3769.0	3884.6	3451.0	2531.1	1161.7
80°	120.9	123.5	144.5	257.5	494.1	444.2	1356.3	1406.1	1248.5	670.2	207.7
82.5°	73.7	73.7	105.1	165.6	304.9	241.9	357.4	381.2	336.4	186.6	68.4
85°	42.0	44.6	65.7	112.9	144.5	118.2	134.0	141.9	144.5	123.5	28.9
87.5°	34.1	36.8	57.9	94.6	78.8	57.9	57.9	60.5	63.2	73.7	13.1
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: P265613

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T3-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8	1274.8
2.5°	1269.5	1269.5	1272.1	1269.5	1269.5	1269.5	1272.1	1272.1	1272.1	1277.3	1279.9
5°	1274.8	1274.8	1274.8	1272.1	1269.5	1269.5	1274.8	1277.3	1277.3	1285.3	1285.3
7.5°	1287.9	1287.9	1282.6	1277.3	1272.1	1264.3	1266.8	1269.5	1266.8	1269.5	1269.5
10°	1316.7	1316.7	1308.9	1298.4	1282.6	1259.0	1227.4	1188.0	1151.2	1138.1	1132.9
12.5°	1364.0	1361.4	1345.8	1327.2	1293.1	1211.6	1093.3	954.1	838.4	806.9	796.3
15°	1416.6	1411.3	1393.0	1361.4	1269.5	1053.9	806.9	628.2	517.8	491.6	486.3
17.5°	1471.9	1464.0	1437.6	1374.5	1161.7	783.2	520.4	394.3	333.8	328.5	331.1
20°	1529.6	1519.2	1482.4	1348.4	938.3	523.1	336.4	304.9	299.7	299.7	302.3
22.5°	1595.4	1582.3	1532.2	1253.7	683.3	346.9	289.2	286.5	283.9	281.2	281.2
25°	1671.6	1655.8	1579.6	1082.8	470.4	283.9	276.0	268.1	262.8	257.5	254.9
27.5°	1763.6	1742.5	1616.4	872.7	323.3	265.4	260.1	247.0	236.6	226.1	226.1
30°	1855.5	1829.3	1605.9	657.1	262.8	247.0	236.6	220.8	205.1	194.6	191.9
32.5°	1952.8	1926.5	1537.5	441.5	239.2	226.1	212.9	189.3	170.9	157.7	155.0
35°	2097.4	2076.3	1403.5	291.7	215.6	199.8	181.4	157.7	134.0	120.9	118.2
37.5°	2312.9	2286.6	1238.0	223.4	189.3	165.6	149.7	123.5	99.9	86.7	84.1
40°	2602.0	2523.2	1040.7	197.1	165.6	136.6	115.6	89.3	71.0	63.2	63.2
42.5°	2938.4	2751.8	827.9	178.8	147.2	112.9	84.1	60.5	49.9	47.3	47.3
45°	3295.9	2964.6	615.0	165.6	128.7	89.3	60.5	42.0	36.8	34.1	34.1
47.5°	3663.8	3138.1	428.4	149.7	107.7	68.4	42.0	31.5	26.3	23.6	23.6
50°	4008.1	3251.1	302.3	134.0	91.9	49.9	31.5	23.6	18.3	18.3	18.3
52.5°	4247.2	3240.6	218.2	115.6	71.0	34.1	21.0	15.8	15.8	15.8	15.8
55°	4457.6	3201.3	170.9	99.9	55.2	23.6	15.8	13.1	13.1	10.5	10.5
57.5°	4636.3	3138.1	144.5	81.4	39.4	18.3	10.5	10.5	7.8	7.8	7.8
60°	4788.8	3059.3	120.9	68.4	26.3	13.1	7.8	5.3	5.3	2.6	5.3
62.5°	4996.4	3009.4	105.1	52.6	18.3	7.8	5.3	2.6	2.6	0.0	0.0
65°	5148.8	2914.8	89.3	36.8	10.5	5.3	2.6	2.6	0.0	0.0	0.0
67.5°	5154.0	2744.0	65.7	21.0	7.8	5.3	2.6	0.0	0.0	0.0	0.0
70°	4738.7	2339.1	42.0	10.5	5.3	2.6	2.6	0.0	0.0	0.0	0.0
71°	4357.7	2071.1	34.1	7.8	5.3	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	3590.3	1521.8	26.3	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0
75°	1979.1	552.0	13.1	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	633.5	168.3	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.7	26.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.8	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)