

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: P265726

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2R-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20043.8 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 261
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: 28.75 FT

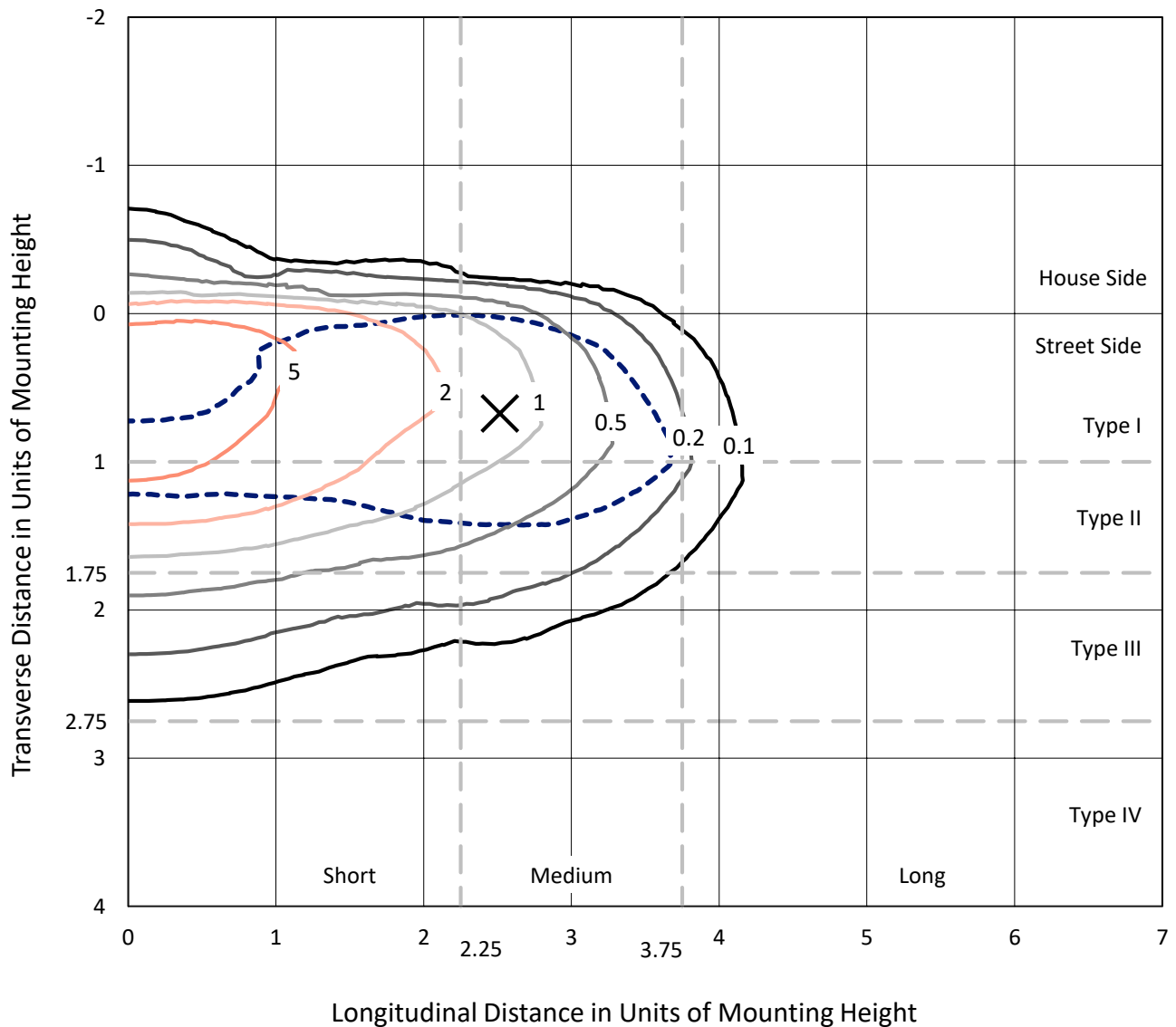


REPORT NUMBER: P265726

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

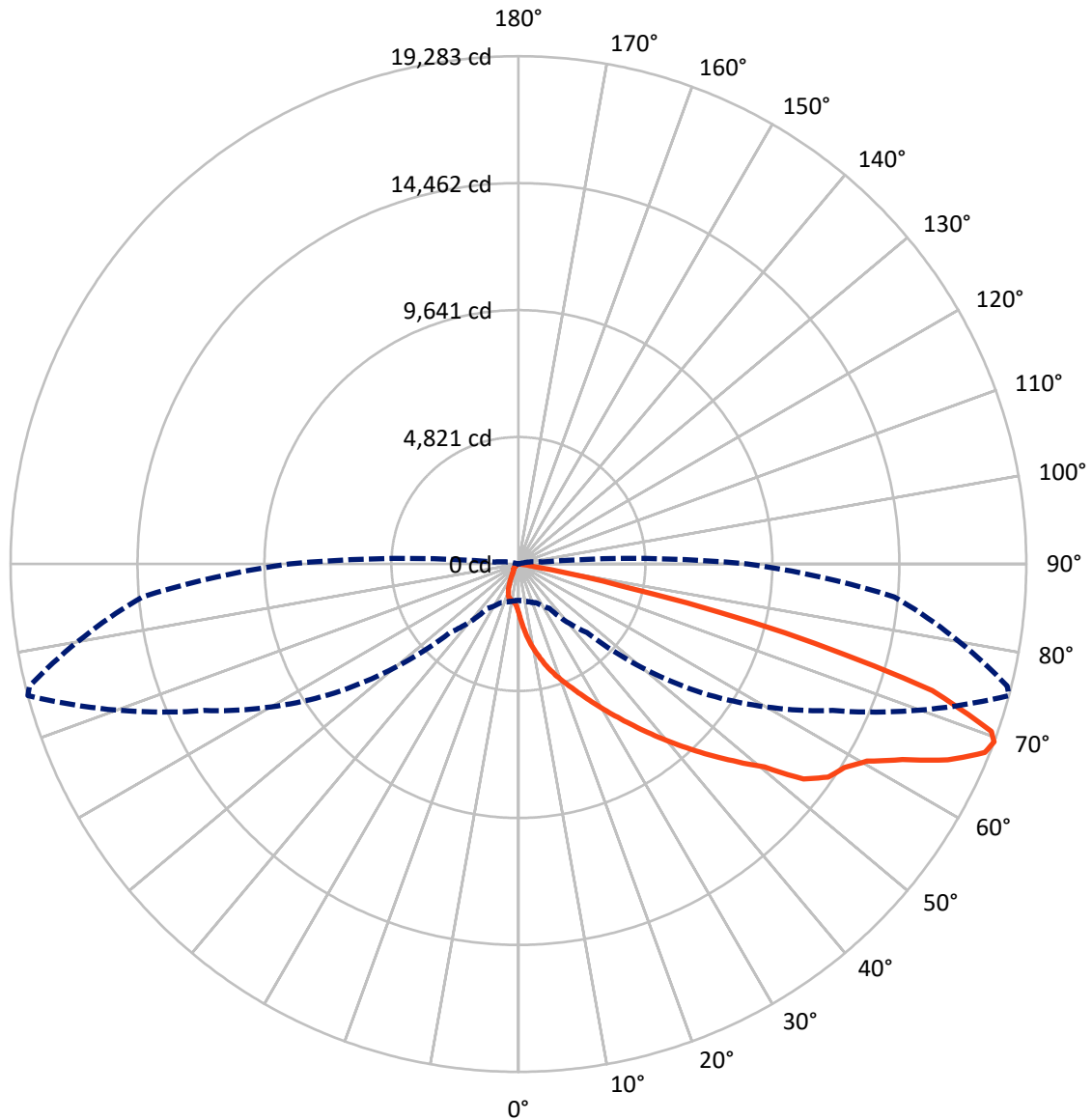


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P265726

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P265726

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7027-HSS

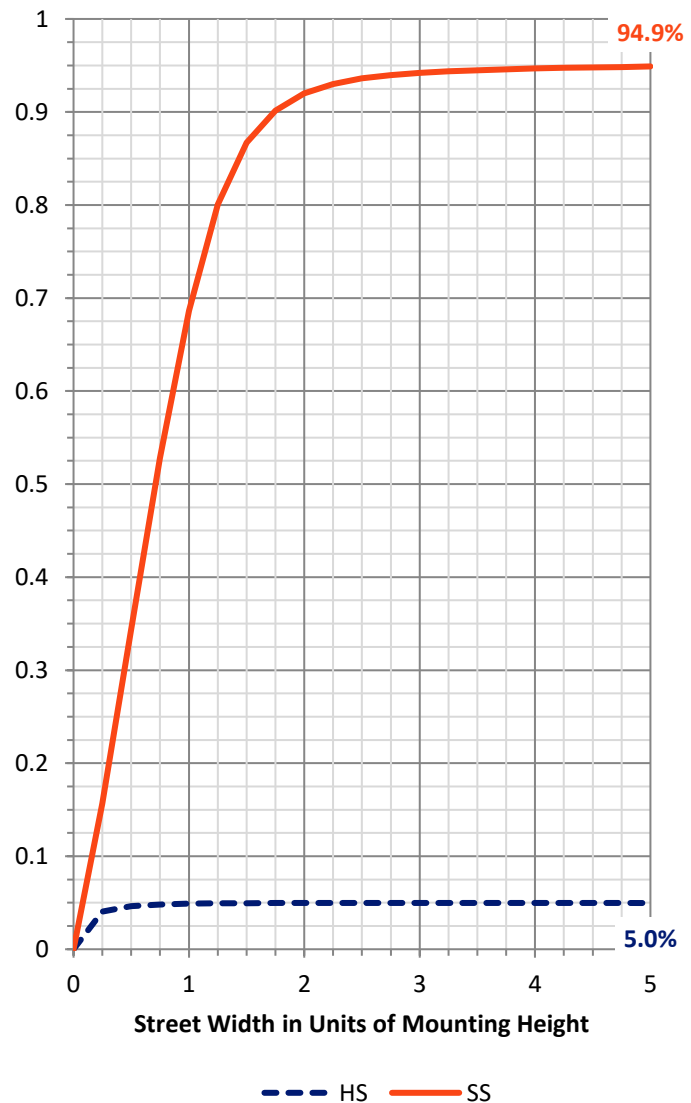
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1000.0	0.0	1000.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19043.8	0.0	19043.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	20043.8	0.0	20043.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.1
10°-20°	777.5	3.9
20°-30°	1484.3	7.4
30°-40°	2662.5	13.3
40°-50°	4079.2	20.4
50°-60°	4741.1	23.7
60°-70°	4198.3	20.9
70°-80°	1810.9	9.0
80°-90°	72.5	0.4
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°	20043.8	100.0
0°-180°	20043.8	100.0

Coefficient of Utilization



REPORT NUMBER: P265726

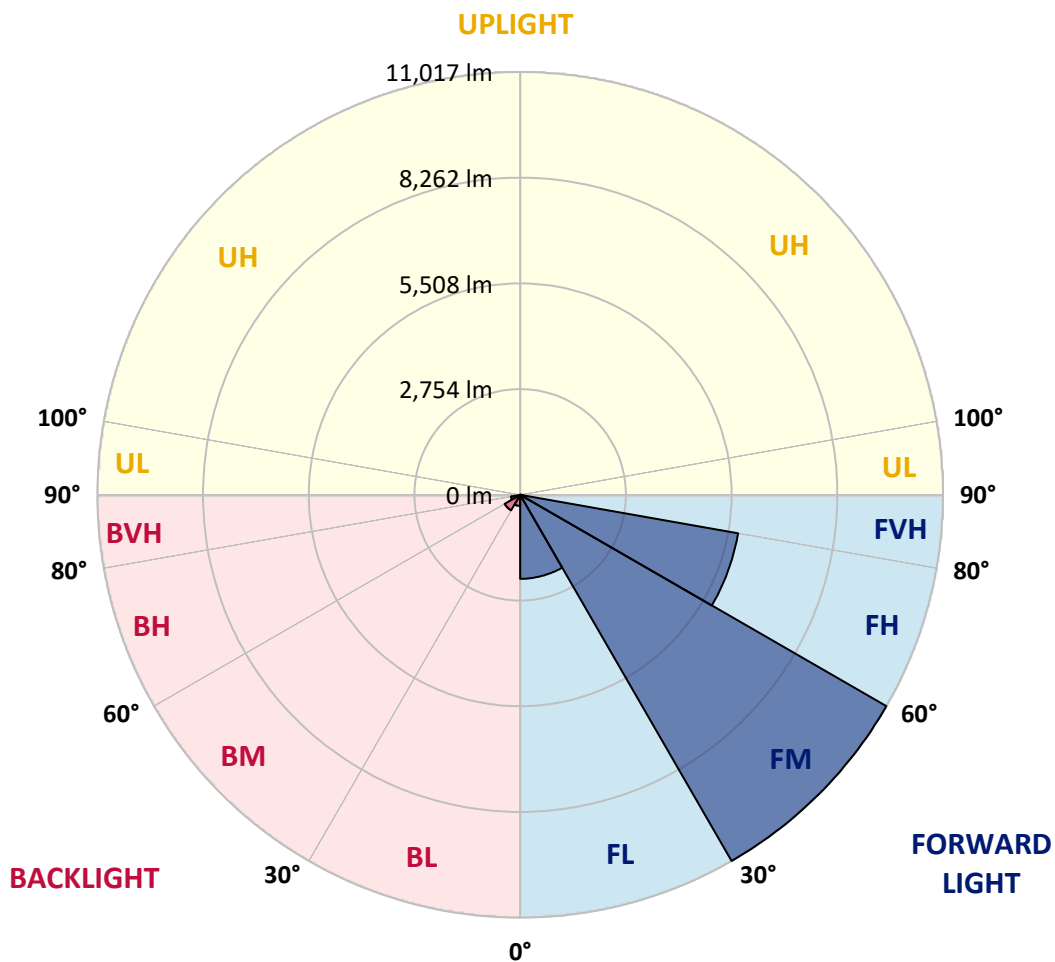
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2188.8	10.9			
FM (30°-60°)	11016.6	55.0			
FH (60°-80°)	5766.9	28.8			G3/7500
FVH (80°-90°)	71.5	0.4			G1/100
BL (0°-30°)	290.4	1.4	B1/500		
BM (30°-60°)	466.2	2.3	B1/1000		
BH (60°-80°)	242.3	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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-G3

Type II Medium





REPORT NUMBER: P265726

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2
2.5°	3072.5	3042.1	3011.7	2977.3	2899.3	2765.2	2596.5	2414.6	2189.6	2150.7	1968.9
5°	3730.1	3717.1	3686.9	3639.3	3552.7	3405.6	3215.3	2946.9	2570.4	2505.6	2120.4
7.5°	4193.2	4184.6	4158.6	4102.3	4024.3	3877.3	3678.2	3388.2	2951.2	2877.7	2310.8
10°	4608.6	4604.3	4582.7	4530.7	4452.8	4292.7	4080.6	3777.7	3314.7	3232.6	2531.5
12.5°	4985.1	4989.4	4980.7	4954.8	4898.5	4747.1	4504.7	4175.9	3665.3	3574.4	2795.4
15°	5205.8	5218.8	5253.4	5305.3	5322.5	5201.5	4950.4	4586.9	4024.3	3946.6	3098.3
17.5°	5132.1	5145.1	5253.4	5430.8	5599.6	5616.8	5391.8	4976.4	4379.2	4301.4	3396.9
20°	4954.8	4972.1	5084.5	5326.9	5655.8	5885.2	5794.2	5400.5	4716.8	4621.6	3682.5
22.5°	5153.8	5153.8	5188.4	5335.6	5634.2	5993.3	6114.6	5824.6	5062.9	4946.1	3968.2
25°	5837.5	5824.6	5750.9	5690.5	5785.7	6105.8	6356.9	6257.2	5469.7	5335.6	4271.0
27.5°	6703.1	6763.6	6625.1	6404.5	6188.1	6326.6	6573.2	6685.6	5919.8	5781.3	4582.7
30°	7672.3	7698.3	7533.8	7239.6	6858.7	6724.6	6828.5	7053.5	6408.8	6257.2	4907.3
32.5°	8546.5	8524.7	8386.3	8079.0	7607.3	7317.5	7157.3	7347.7	6941.1	6767.9	5240.4
35°	9321.1	9338.3	9169.5	8814.7	8351.7	8044.4	7663.7	7681.0	7538.1	7339.2	5625.5
37.5°	10017.7	9987.4	9827.3	9472.4	9052.7	8719.5	8317.0	8027.2	8191.6	7983.9	6058.2
40°	10584.5	10554.2	10385.6	10039.4	9645.6	9372.9	9057.0	8490.2	8879.7	8641.6	6521.2
42.5°	11034.6	11000.0	10857.3	10524.1	10143.2	9900.8	9749.5	9061.5	9615.3	9377.2	7040.6
45°	11255.4	11225.0	11138.4	10887.5	10554.2	10342.2	10415.8	9719.1	10402.8	10203.8	7611.8
47.5°	10995.8	10982.7	11082.2	11038.9	10848.6	10736.1	10991.3	10437.4	11229.4	11034.6	8269.4
50°	10208.1	10229.8	10519.7	10878.8	10969.7	11103.9	11463.0	11194.8	12116.5	11908.7	9026.8
52.5°	8265.1	8412.3	9286.4	10151.8	10822.6	11328.9	12016.9	12276.5	13561.8	13358.3	10208.1
55°	6170.7	6231.4	7183.3	8663.3	10229.8	11311.5	12428.1	12912.6	14275.8	14068.0	10519.7
57.5°	4894.1	4915.9	5387.4	6897.7	9009.5	10922.1	12644.5	13142.1	14587.3	14414.3	10982.7
60°	3842.7	3868.6	4210.4	5249.1	7291.5	9870.5	12332.8	13341.1	15197.4	15059.0	11792.0
62.5°	2990.2	3016.1	3223.8	3834.0	5469.7	8252.2	11705.4	13661.3	16357.1	16292.3	13116.1
65°	2315.1	2323.7	2466.6	2752.1	3864.2	6499.6	10939.4	13959.9	17923.7	17867.5	14189.3
67.5°	1709.2	1722.3	1821.9	1999.2	2609.3	4669.2	9684.4	13730.6	19105.1	18940.7	14578.8
69°	1380.4	1393.5	1480.0	1622.8	2059.9	3678.2	8537.9	13163.7	19282.5	19126.7	14332.1
70°	1181.4	1190.1	1276.5	1397.8	1756.8	3124.3	7629.0	12674.6	19048.7	18897.4	13769.5
72.5°	757.4	800.6	887.0	965.0	1164.1	2068.4	5149.5	10511.1	16435.1	16175.5	10783.7
75°	419.8	432.8	588.5	683.7	774.6	1345.8	2864.7	6555.9	10454.7	10273.0	5768.2
77.5°	346.1	354.8	415.5	519.3	519.3	753.0	1081.7	2583.3	3976.7	3587.3	1562.2
80°	242.4	250.9	315.9	341.9	372.2	424.1	350.5	566.9	614.5	545.2	233.6
82.5°	168.7	177.4	216.3	281.3	298.5	199.1	129.8	168.7	177.4	177.4	90.9
85°	30.4	43.3	160.1	233.6	177.4	60.5	73.7	60.5	56.2	60.5	21.6
87.5°	0.0	0.0	99.5	112.5	95.2	26.1	30.4	21.6	12.9	17.2	8.7
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: P265726

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2R-7027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2
2.5°	1878.0	1787.2	1631.4	1518.9	1423.6	1350.2	1319.8	1272.2	1237.7	1254.9	1233.4
5°	1930.0	1769.9	1518.9	1358.7	1246.3	1151.1	1073.1	1012.6	965.0	956.3	947.7
7.5°	2012.3	1782.9	1453.9	1254.9	1086.1	939.0	817.8	727.0	657.7	657.7	631.8
10°	2124.8	1817.5	1415.0	1151.1	900.1	701.0	579.9	493.3	458.7	454.4	445.6
12.5°	2280.4	1882.4	1384.7	1016.9	701.0	510.6	437.0	406.8	393.7	389.4	385.2
15°	2492.5	1977.6	1350.2	852.5	532.2	419.8	389.4	363.5	350.5	346.1	341.9
17.5°	2696.0	2064.1	1276.5	683.7	432.8	380.8	346.1	324.6	307.2	302.9	302.9
20°	2886.3	2137.6	1151.1	532.2	389.4	341.9	307.2	281.3	263.9	259.6	259.6
22.5°	3085.4	2198.2	995.3	432.8	354.8	302.9	268.4	242.4	225.0	220.8	216.3
25°	3297.4	2241.5	817.8	385.2	320.2	268.4	229.3	207.7	194.8	190.4	186.0
27.5°	3526.7	2258.9	649.0	350.5	281.3	233.6	199.1	177.4	168.7	164.4	164.4
30°	3734.4	2241.5	502.0	311.5	246.7	203.3	173.2	155.8	147.1	142.8	142.8
32.5°	3950.8	2198.2	402.4	276.9	216.3	173.2	147.1	134.1	129.8	125.6	125.6
35°	4180.3	2142.0	346.1	246.7	186.0	151.5	129.8	121.2	116.8	112.5	112.5
37.5°	4448.4	2072.7	315.9	220.8	164.4	134.1	112.5	108.2	103.8	103.8	103.8
40°	4751.3	1986.2	294.3	199.1	147.1	116.8	99.5	95.2	90.9	90.9	90.9
42.5°	5071.7	1886.7	272.6	177.4	129.8	99.5	86.5	86.5	82.3	82.3	78.0
45°	5430.8	1787.2	250.9	155.8	112.5	86.5	73.7	69.2	69.2	64.9	64.9
47.5°	5854.9	1696.3	229.3	138.5	99.5	73.7	64.9	60.5	56.2	51.9	51.9
50°	6452.0	1687.6	203.3	121.2	90.9	60.5	51.9	47.6	43.3	38.9	38.9
52.5°	7044.9	1609.8	173.2	99.5	73.7	51.9	38.9	34.7	30.4	30.4	26.1
55°	7179.1	1480.0	151.5	86.5	56.2	38.9	30.4	21.6	21.6	17.2	17.2
57.5°	7473.3	1419.3	129.8	69.2	43.3	30.4	17.2	12.9	12.9	12.9	12.9
60°	8053.1	1402.1	112.5	60.5	30.4	21.6	12.9	8.7	8.7	4.3	4.3
62.5°	8853.6	1384.7	95.2	51.9	21.6	12.9	8.7	4.3	0.0	0.0	0.0
65°	9295.0	1267.9	78.0	38.9	17.2	12.9	4.3	0.0	0.0	0.0	0.0
67.5°	9178.3	1047.2	69.2	26.1	12.9	8.7	4.3	0.0	0.0	0.0	0.0
69°	8689.2	882.8	56.2	21.6	12.9	8.7	4.3	0.0	0.0	0.0	0.0
70°	8100.7	761.7	51.9	17.2	8.7	4.3	4.3	0.0	0.0	0.0	0.0
72.5°	5750.9	398.0	34.7	12.9	8.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	2687.3	177.4	21.6	8.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	592.8	82.3	12.9	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.5	30.4	8.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.9	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	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)