

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: P265730

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265730
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-AF72-260-D-U-T3-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA 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: 18340.9 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G4

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

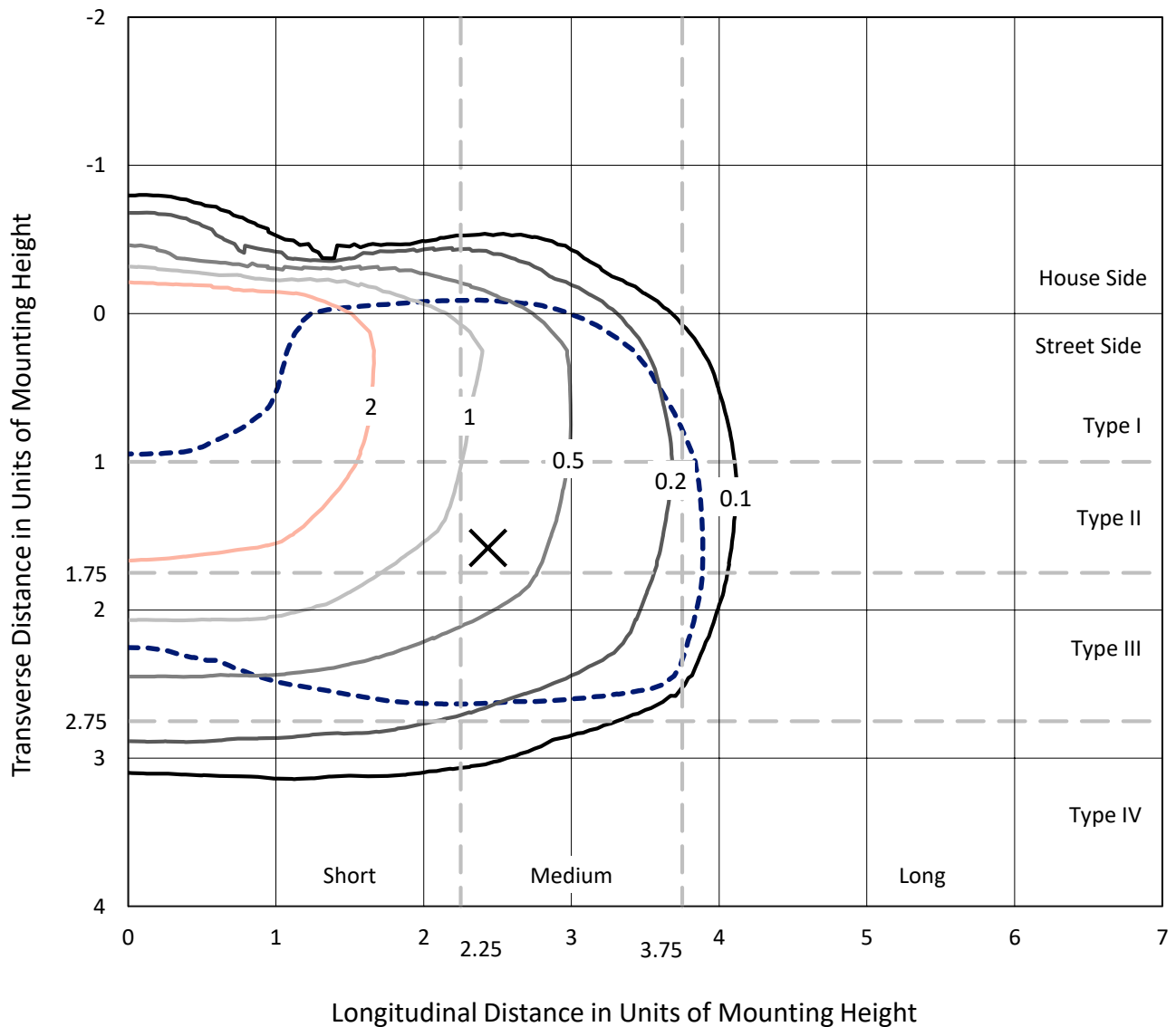


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

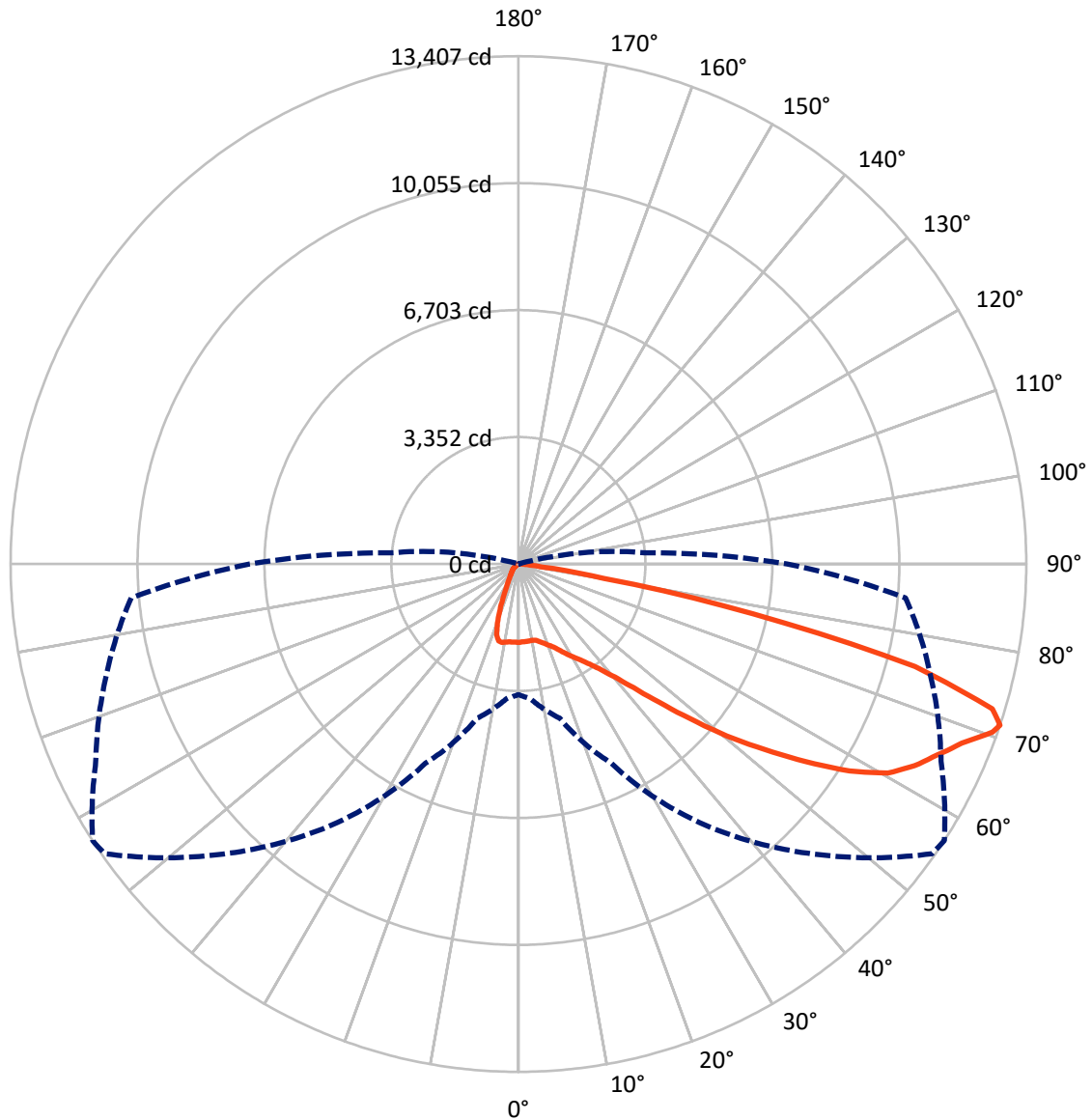


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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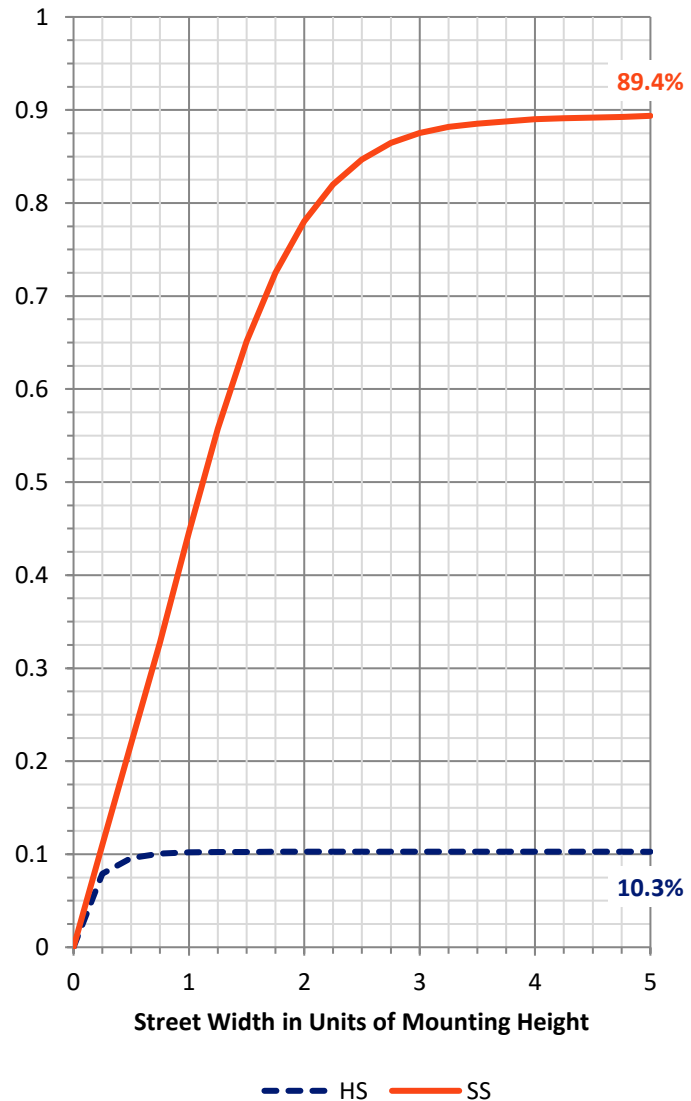
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.7	0.0	1900.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16440.3	0.0	16440.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	18340.9	0.0	18340.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.1
10°-20°	520.5	2.8
20°-30°	812.0	4.4
30°-40°	1372.3	7.5
40°-50°	2665.4	14.5
50°-60°	4476.1	24.4
60°-70°	5341.8	29.1
70°-80°	2815.2	15.3
80°-90°	143.1	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°	18340.9	100.0
0°-180°	18340.9	100.0

Coefficient of Utilization



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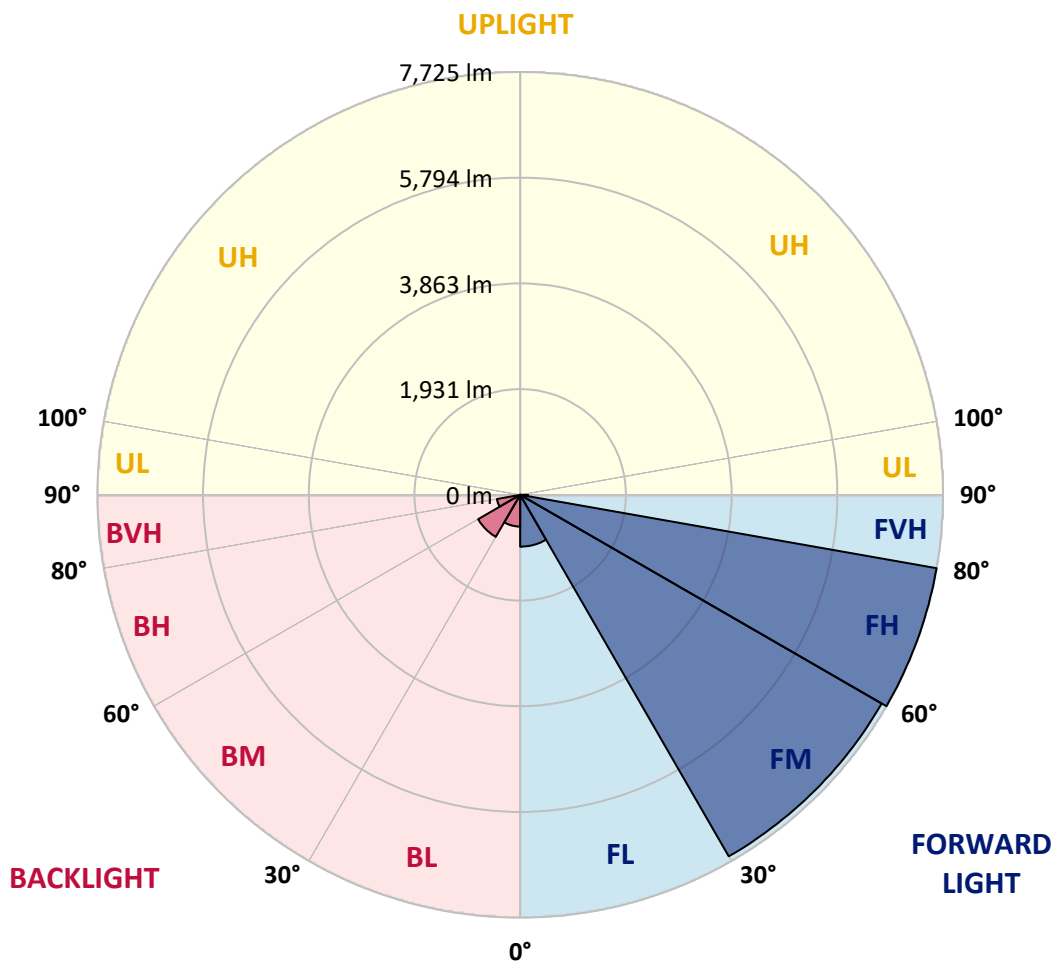
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	946.9	5.2			
FM	(30°-60°)	7626.3	41.6			
FH	(60°-80°)	7725.3	42.1			G4/12000
FVH	(80°-90°)	141.7	0.8			G2/225
BL	(0°-30°)	580.2	3.2	B2/1000		
BM	(30°-60°)	887.5	4.8	B1/1000		
BH	(60°-80°)	431.6	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2042.8	2042.8	2042.8	2047.1	2051.4	2051.4	2060.1	2055.7	2055.7	2055.7	2064.2
5°	1987.3	1991.6	1995.9	2004.4	2021.5	2034.3	2055.7	2055.7	2060.1	2068.5	2072.7
7.5°	1910.3	1914.6	1927.6	1944.7	1978.7	2008.7	2042.8	2051.4	2064.2	2085.7	2094.2
10°	1863.4	1872.0	1889.0	1910.3	1948.9	1987.3	2030.1	2042.8	2081.4	2119.8	2141.2
12.5°	1850.6	1854.8	1872.0	1906.2	1953.2	2000.2	2055.7	2068.5	2124.1	2183.9	2218.2
15°	1872.0	1876.2	1884.7	1923.2	1978.7	2038.7	2111.2	2128.4	2196.7	2265.2	2307.8
17.5°	1910.3	1910.3	1919.0	1953.2	2013.0	2081.4	2175.3	2200.9	2277.9	2354.8	2401.9
20°	1936.0	1936.0	1948.9	1983.1	2051.4	2141.2	2252.3	2286.5	2372.0	2457.5	2500.3
22.5°	1961.7	1966.0	1978.7	2017.2	2094.2	2218.2	2346.4	2380.5	2478.9	2568.6	2611.4
25°	2034.3	2030.1	2034.3	2068.5	2158.3	2312.1	2474.6	2517.3	2619.8	2718.1	2739.6
27.5°	2235.3	2226.7	2171.2	2149.7	2218.2	2410.4	2637.0	2679.6	2799.4	2897.7	2897.7
30°	2696.8	2679.6	2542.9	2367.8	2312.1	2500.3	2790.9	2850.6	3004.6	3090.0	3064.3
32.5°	3282.2	3243.8	3068.6	2769.5	2547.2	2619.8	2953.2	3021.5	3218.2	3290.9	3235.2
35°	3923.3	3919.0	3701.1	3316.5	3000.2	2867.7	3162.7	3243.8	3491.7	3555.9	3466.1
37.5°	4602.9	4620.1	4474.6	3944.7	3572.9	3273.8	3440.4	3534.4	3837.9	3914.9	3829.4
40°	5359.4	5355.1	5299.6	4671.2	4261.0	3850.8	3842.2	3927.7	4295.2	4414.9	4295.2
42.5°	6316.7	6308.2	6107.2	5543.1	5094.4	4602.9	4427.7	4457.6	4867.8	5064.5	4889.3
45°	7291.2	7231.4	7000.5	6513.3	6115.8	5534.5	5201.2	5201.2	5551.6	5820.9	5547.5
47.5°	7833.8	7774.1	7680.1	7410.7	7291.2	6641.4	6150.1	6090.1	6363.8	6637.2	6252.7
50°	8547.6	8547.6	8312.6	8210.0	8415.1	7957.8	7197.1	7137.4	7269.8	7487.7	6983.5
52.5°	9111.8	9009.2	8842.6	8932.2	9517.8	9308.3	8244.3	8128.9	8231.3	8287.0	7620.2
55°	9346.9	9248.6	9235.7	9564.9	10470.9	10180.2	9317.0	9214.4	9205.8	8932.2	8175.8
57.5°	9393.8	9308.3	9470.8	10047.7	11398.4	10893.9	10385.3	10308.5	10069.1	9385.3	8744.2
60°	8996.3	9039.1	9432.4	10312.7	11945.3	11513.7	11287.2	11205.9	10654.6	9770.0	9376.8
62.5°	8180.1	8282.6	9017.7	10338.4	11744.5	11765.8	11787.2	11731.7	11107.6	10120.5	10013.5
65°	7214.2	7244.1	8128.9	9983.7	11394.0	11688.9	12154.7	12150.5	11453.8	10513.7	10731.6
67.5°	5945.0	5996.1	6761.3	8787.0	10693.2	11654.7	12637.6	12624.9	11847.0	10962.3	11158.9
70°	4423.4	4487.6	5107.3	6833.9	9128.8	11227.3	13270.2	13278.7	12261.7	11304.4	10864.0
71°	3449.0	3564.4	4213.9	5803.9	8329.7	10795.7	13330.0	13406.9	12308.7	11257.3	10257.1
72.5°	1692.4	1829.2	2645.5	4085.9	6855.2	9829.9	12936.9	13086.5	12013.8	10671.8	8770.0
75°	440.2	465.9	790.7	1671.0	3675.4	6513.3	10432.3	10812.8	9821.3	8124.5	5359.4
77.5°	277.8	286.3	371.8	649.7	1376.2	2474.6	6128.6	6316.7	5611.5	4115.7	1889.0
80°	196.5	201.0	235.0	418.8	803.4	722.2	2205.2	2286.5	2030.1	1089.9	337.7
82.5°	119.7	119.7	170.9	269.2	495.8	393.2	581.3	619.7	547.1	303.4	111.1
85°	68.5	72.7	106.9	183.8	235.0	192.3	218.0	230.8	235.0	201.0	47.0
87.5°	55.5	59.8	94.1	153.9	128.2	94.1	94.1	98.4	102.5	119.7	21.4
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2064.2	2064.2	2068.5	2064.2	2064.2	2064.2	2068.5	2068.5	2068.5	2077.2	2081.4
5°	2072.7	2072.7	2072.7	2068.5	2064.2	2064.2	2072.7	2077.2	2077.2	2089.8	2089.8
7.5°	2094.2	2094.2	2085.7	2077.2	2068.5	2055.7	2060.1	2064.2	2060.1	2064.2	2064.2
10°	2141.2	2141.2	2128.4	2111.2	2085.7	2047.1	1995.9	1931.7	1872.0	1850.6	1842.1
12.5°	2218.2	2213.9	2188.2	2158.3	2102.8	1970.3	1777.9	1551.5	1363.4	1312.1	1294.9
15°	2303.7	2295.0	2265.2	2213.9	2064.2	1713.7	1312.1	1021.5	841.9	799.2	790.7
17.5°	2393.4	2380.5	2337.7	2235.3	1889.0	1273.5	846.3	641.1	542.8	534.2	538.5
20°	2487.3	2470.2	2410.4	2192.5	1525.7	850.4	547.1	495.8	487.2	487.2	491.6
22.5°	2594.2	2572.8	2491.7	2038.7	1111.3	564.1	470.2	465.9	461.5	457.2	457.2
25°	2718.1	2692.5	2568.6	1760.8	764.9	461.5	448.8	435.9	427.4	418.8	414.6
27.5°	2867.7	2833.6	2628.4	1419.0	525.7	431.6	423.1	401.7	384.7	367.5	367.5
30°	3017.3	2974.6	2611.4	1068.4	427.4	401.7	384.7	359.1	333.4	316.3	312.0
32.5°	3175.5	3132.7	2500.3	717.9	389.0	367.5	346.1	307.7	277.8	256.5	252.2
35°	3410.5	3376.3	2282.2	474.3	350.5	324.7	295.0	256.5	218.0	196.5	192.3
37.5°	3760.9	3718.3	2013.0	363.3	307.7	269.2	243.6	201.0	162.5	141.0	136.7
40°	4231.0	4102.9	1692.4	320.5	269.2	222.2	188.0	145.3	115.4	102.5	102.5
42.5°	4778.2	4474.6	1346.3	290.6	239.3	183.8	136.7	98.4	81.1	77.0	77.0
45°	5359.4	4820.8	1000.1	269.2	209.5	145.3	98.4	68.5	59.8	55.5	55.5
47.5°	5957.6	5102.9	696.6	243.6	175.2	111.1	68.5	51.4	42.7	38.4	38.4
50°	6517.7	5286.7	491.6	218.0	149.6	81.1	51.4	38.4	30.0	30.0	30.0
52.5°	6906.4	5269.6	354.7	188.0	115.4	55.5	34.1	25.6	25.6	25.6	25.6
55°	7248.5	5205.5	277.8	162.5	89.7	38.4	25.6	21.4	21.4	17.1	17.1
57.5°	7539.0	5102.9	235.0	132.5	64.0	30.0	17.1	17.1	12.8	12.8	12.8
60°	7786.9	4974.8	196.5	111.1	42.7	21.4	12.8	8.5	8.5	4.3	8.5
62.5°	8124.5	4893.5	170.9	85.5	30.0	12.8	8.5	4.3	4.3	0.0	0.0
65°	8372.5	4739.6	145.3	59.8	17.1	8.5	4.3	4.3	0.0	0.0	0.0
67.5°	8380.9	4461.9	106.9	34.1	12.8	8.5	4.3	0.0	0.0	0.0	0.0
70°	7705.8	3803.8	68.5	17.1	8.5	4.3	4.3	0.0	0.0	0.0	0.0
71°	7086.0	3367.7	55.5	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	5838.1	2474.6	42.7	12.8	4.3	4.3	0.0	0.0	0.0	0.0	0.0
75°	3218.2	897.4	21.4	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1029.9	273.5	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	175.2	42.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.8	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	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)