

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: P265676

Luminaire Tested: **ARCH-L-AF72-200-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265676
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-AF72-200-D-U-T3-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA 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: 15492.7 lumens
Efficiency: N/A
Efficacy: 77.1 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 - G3

Input Watts (W): 201
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

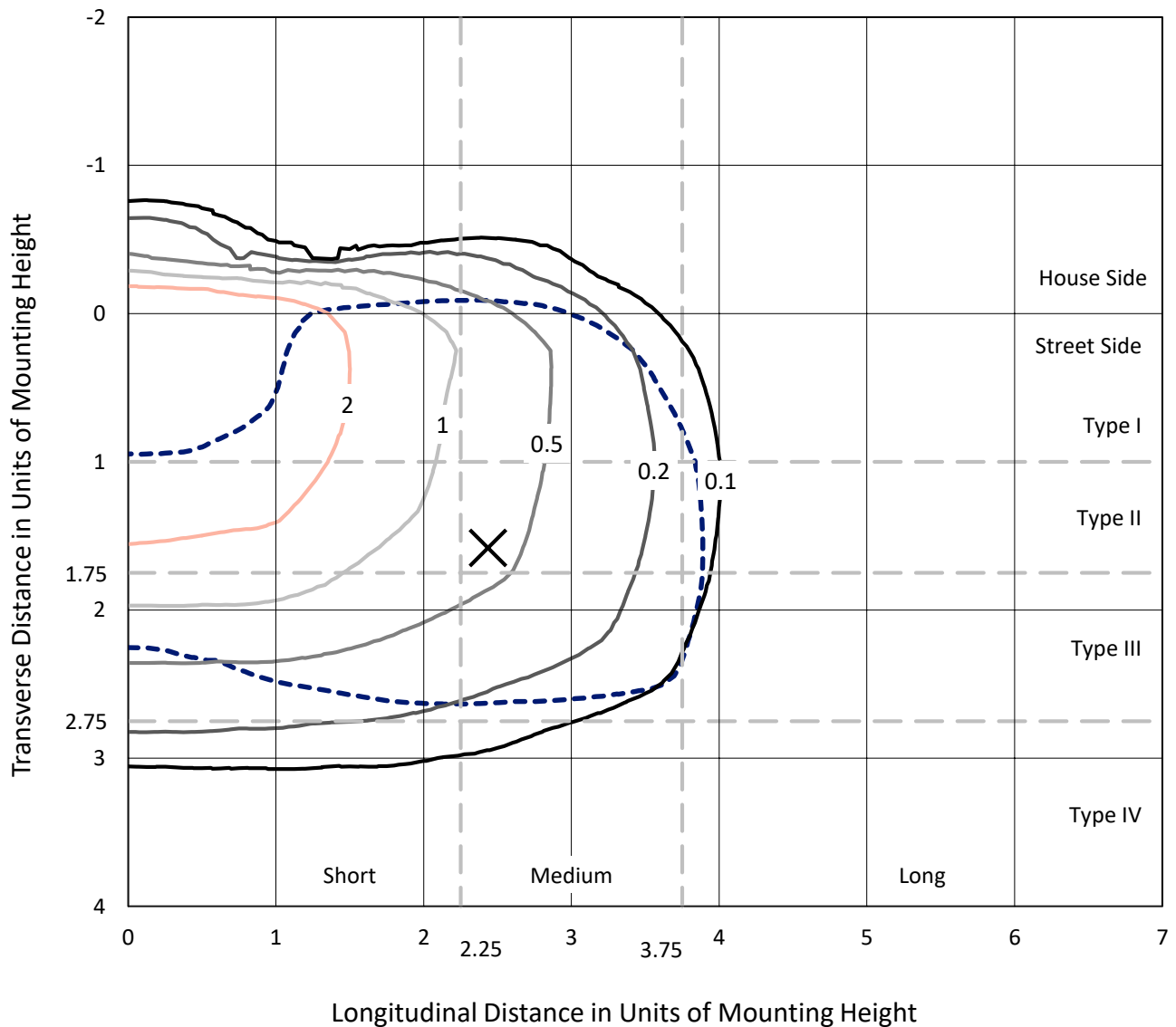


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

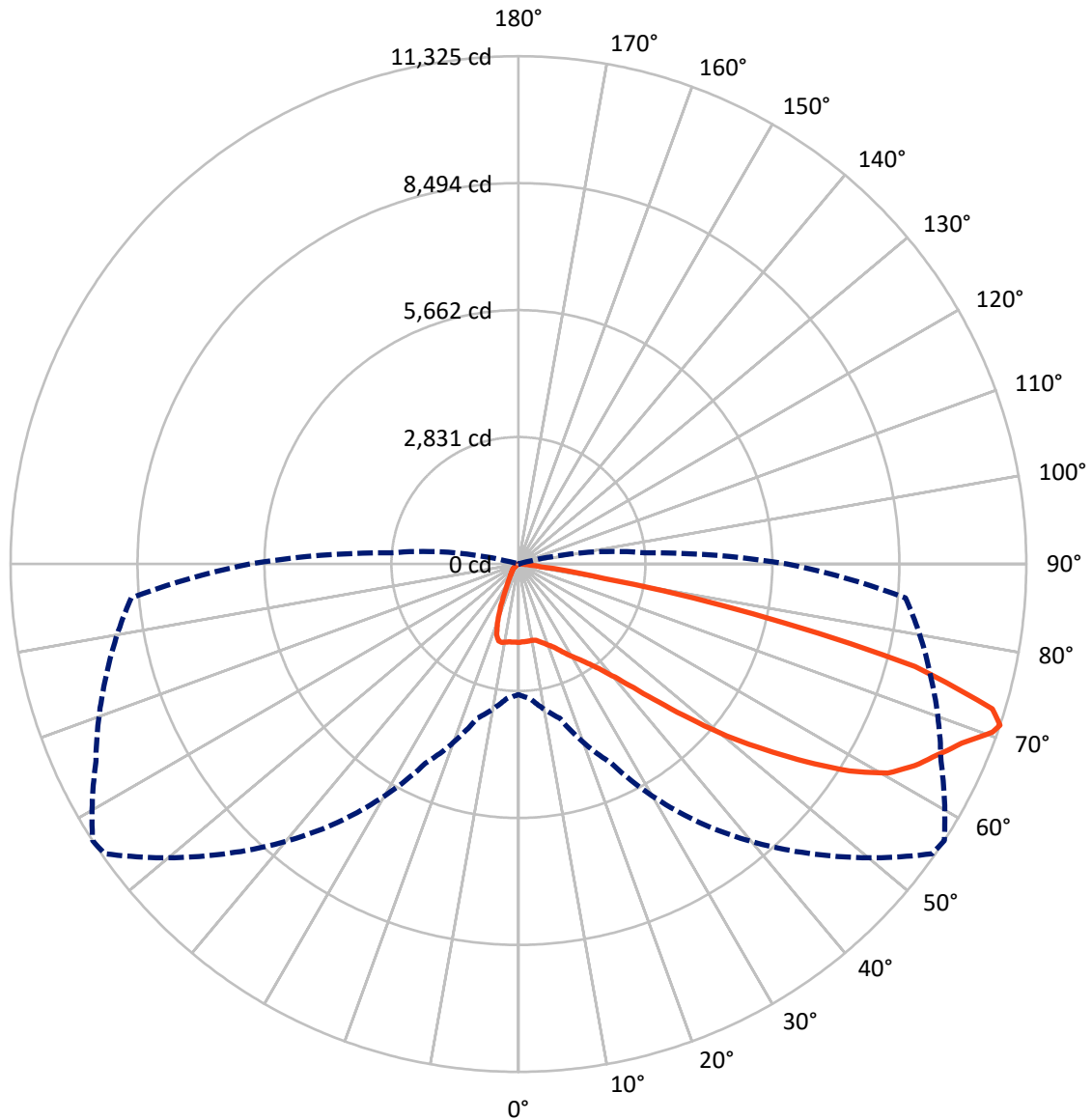


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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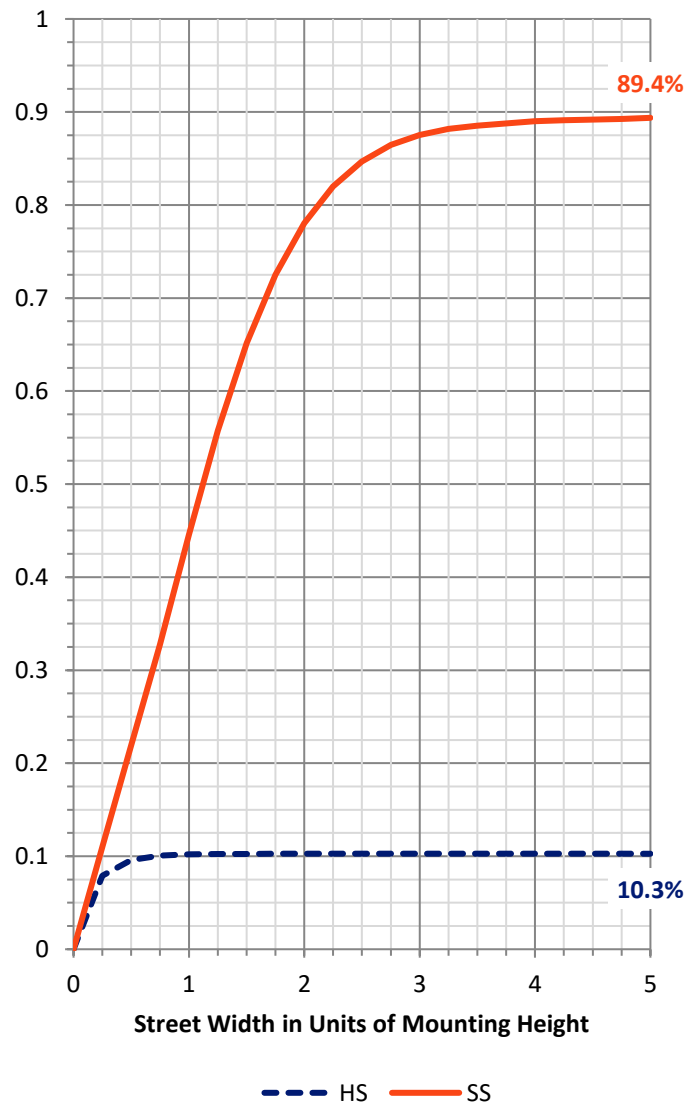
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1605.5	0.0	1605.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13887.2	0.0	13887.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	15492.7	0.0	15492.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.1
10°-20°	439.7	2.8
20°-30°	685.9	4.4
30°-40°	1159.2	7.5
40°-50°	2251.5	14.5
50°-60°	3781.0	24.4
60°-70°	4512.2	29.1
70°-80°	2378.0	15.3
80°-90°	120.8	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°	15492.7	100.0
0°-180°	15492.7	100.0

Coefficient of Utilization



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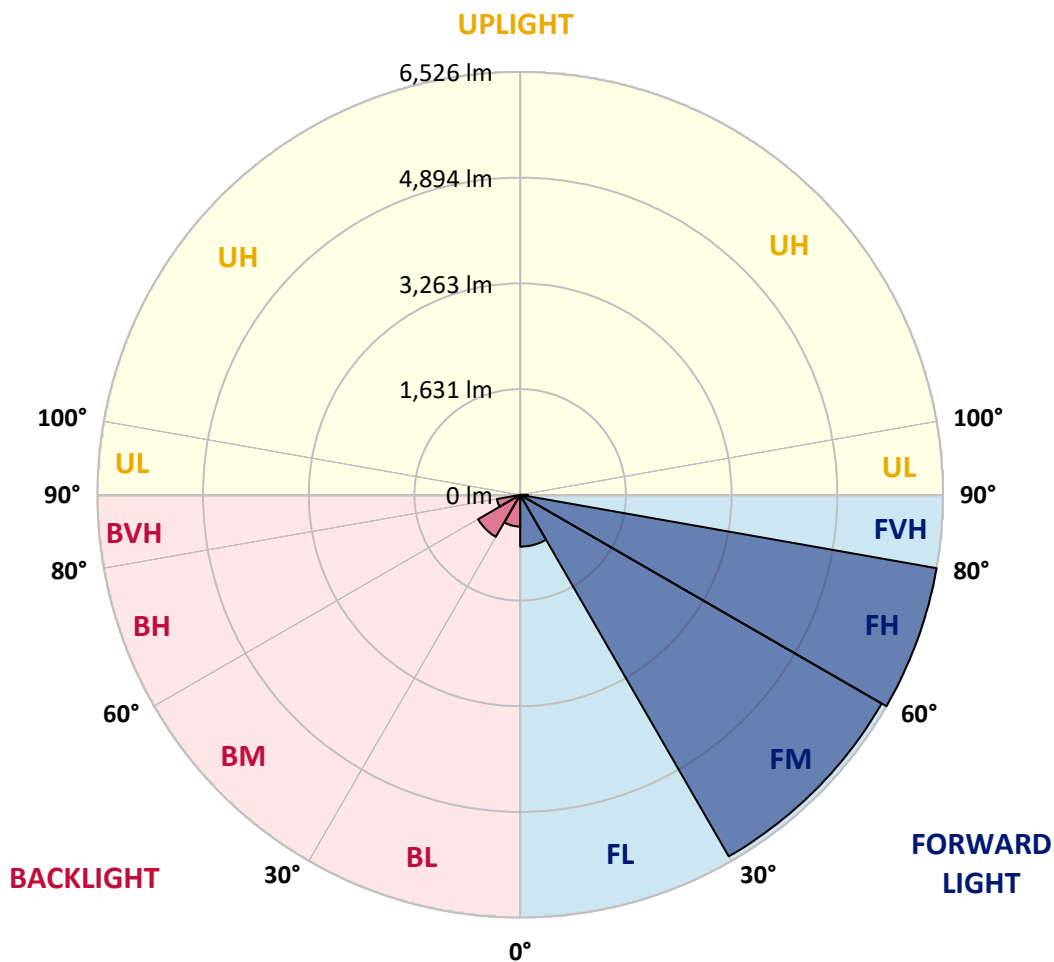
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.9	5.2			
FM	(30°-60°)	6442.0	41.6			
FH	(60°-80°)	6525.6	42.1			G3/7500
FVH	(80°-90°)	119.7	0.8			G2/225
BL	(0°-30°)	490.1	3.2	B1/500		
BM	(30°-60°)	749.7	4.8	B1/1000		
BH	(60°-80°)	364.6	2.4	B1/500		G1/500
BVH	(80°-90°)	1.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8
2.5°	1725.6	1725.6	1725.6	1729.2	1732.9	1732.9	1740.0	1736.5	1736.5	1736.5	1743.7
5°	1678.8	1682.3	1685.8	1693.1	1707.6	1718.4	1736.5	1736.5	1740.0	1747.4	1750.8
7.5°	1613.7	1617.3	1628.2	1642.6	1671.4	1696.8	1725.6	1732.9	1743.7	1761.8	1768.9
10°	1574.0	1581.2	1595.7	1613.7	1646.2	1678.8	1714.9	1725.6	1758.2	1790.6	1808.6
12.5°	1563.2	1566.9	1581.2	1610.1	1649.8	1689.5	1736.5	1747.4	1794.3	1844.8	1873.7
15°	1581.2	1584.8	1592.1	1624.6	1671.4	1722.1	1783.3	1797.9	1855.5	1913.4	1949.4
17.5°	1613.7	1613.7	1620.9	1649.8	1700.3	1758.2	1837.6	1859.2	1924.2	1989.1	2028.9
20°	1635.4	1635.4	1646.2	1675.1	1732.9	1808.6	1902.5	1931.4	2003.6	2075.9	2111.9
22.5°	1657.1	1660.6	1671.4	1703.9	1768.9	1873.7	1982.0	2010.9	2093.9	2169.6	2205.8
25°	1718.4	1714.9	1718.4	1747.4	1823.1	1953.1	2090.3	2126.4	2213.1	2296.1	2314.0
27.5°	1888.1	1881.0	1833.9	1816.0	1873.7	2036.1	2227.4	2263.5	2364.6	2447.6	2447.6
30°	2278.0	2263.5	2148.0	1999.9	1953.1	2111.9	2357.4	2407.9	2537.9	2610.1	2588.5
32.5°	2772.6	2740.1	2592.1	2339.4	2151.6	2213.1	2494.7	2552.4	2718.5	2779.7	2732.9
35°	3314.0	3310.4	3126.5	2801.5	2534.3	2422.4	2671.5	2740.1	2949.4	3003.7	2927.8
37.5°	3888.1	3902.5	3779.8	3332.2	3018.0	2765.3	2906.1	2985.5	3242.0	3306.9	3234.6
40°	4527.1	4523.4	4476.6	3945.9	3599.2	3252.8	3245.4	3317.7	3628.2	3729.3	3628.2
42.5°	5335.8	5328.6	5158.8	4682.3	4303.3	3888.1	3740.2	3765.3	4111.9	4278.0	4130.0
45°	6158.9	6108.4	5913.5	5501.8	5166.2	4675.0	4393.5	4393.5	4689.5	4917.1	4685.9
47.5°	6617.4	6566.8	6487.4	6260.0	6158.9	5610.2	5195.0	5144.5	5375.5	5606.5	5281.7
50°	7220.2	7220.2	7021.7	6935.1	7108.3	6722.0	6079.4	6029.0	6140.9	6325.0	5898.9
52.5°	7696.8	7610.1	7469.3	7545.1	8039.7	7862.9	6963.9	6866.5	6953.2	7000.0	6436.9
55°	7895.4	7812.3	7801.5	8079.4	8844.8	8599.4	7870.1	7783.5	7776.2	7545.1	6906.2
57.5°	7935.1	7862.9	8000.0	8487.4	9628.3	9202.1	8772.6	8707.6	8505.4	7927.8	7386.4
60°	7599.3	7635.5	7967.5	8711.3	10090.3	9725.7	9534.3	9465.7	8999.9	8252.6	7920.5
62.5°	6909.8	6996.4	7617.4	8733.0	9920.6	9938.7	9956.8	9909.8	9382.6	8548.8	8458.5
65°	6093.9	6119.2	6866.5	8433.3	9624.6	9873.7	10267.2	10263.6	9675.1	8881.0	9064.9
67.5°	5021.6	5065.1	5711.2	7422.4	9032.5	9844.7	10675.1	10664.3	10007.3	9260.0	9426.0
70°	3736.5	3790.6	4314.1	5772.6	7711.2	9483.8	11209.4	11216.6	10357.5	9548.8	9176.9
71°	2913.4	3010.8	3559.5	4902.5	7036.2	9119.1	11260.0	11324.9	10397.2	9509.1	8664.3
72.5°	1429.7	1545.2	2234.7	3451.3	5790.7	8303.3	10927.8	11054.3	10148.1	9014.5	7408.0
75°	371.9	393.5	667.9	1411.5	3104.7	5501.8	8812.4	9133.5	8296.0	6862.8	4527.1
77.5°	234.6	241.9	314.0	548.8	1162.4	2090.3	5176.9	5335.8	4740.0	3476.5	1595.7
80°	166.0	169.7	198.5	353.8	678.7	610.0	1862.8	1931.4	1714.9	920.7	285.2
82.5°	101.1	101.1	144.4	227.5	418.8	332.2	491.0	523.4	462.1	256.3	93.9
85°	57.9	61.4	90.3	155.2	198.5	162.5	184.2	194.9	198.5	169.7	39.7
87.5°	46.9	50.6	79.4	130.0	108.2	79.4	79.4	83.1	86.6	101.1	18.1
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°	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8	1750.8
2.5°	1743.7	1743.7	1747.4	1743.7	1743.7	1743.7	1747.4	1747.4	1747.4	1754.5	1758.2
5°	1750.8	1750.8	1750.8	1747.4	1743.7	1743.7	1750.8	1754.5	1754.5	1765.3	1765.3
7.5°	1768.9	1768.9	1761.8	1754.5	1747.4	1736.5	1740.0	1743.7	1740.0	1743.7	1743.7
10°	1808.6	1808.6	1797.9	1783.3	1761.8	1729.2	1685.8	1631.9	1581.2	1563.2	1556.0
12.5°	1873.7	1870.0	1848.4	1823.1	1776.2	1664.3	1501.7	1310.4	1151.6	1108.2	1093.9
15°	1945.9	1938.6	1913.4	1870.0	1743.7	1447.7	1108.2	862.8	711.2	675.0	667.9
17.5°	2021.6	2010.9	1974.7	1888.1	1595.7	1075.8	714.8	541.5	458.5	451.3	454.9
20°	2101.0	2086.7	2036.1	1851.9	1288.8	718.5	462.1	418.8	411.6	411.6	415.1
22.5°	2191.3	2173.3	2104.6	1722.1	938.5	476.6	397.1	393.5	389.9	386.4	386.4
25°	2296.1	2274.4	2169.6	1487.4	646.2	389.9	379.1	368.2	360.9	353.8	350.2
27.5°	2422.4	2393.5	2220.3	1198.6	444.0	364.6	357.3	339.4	324.8	310.5	310.5
30°	2548.8	2512.6	2205.8	902.5	360.9	339.4	324.8	303.3	281.6	267.2	263.6
32.5°	2682.2	2646.1	2111.9	606.4	328.5	310.5	292.4	259.9	234.6	216.6	213.0
35°	2880.9	2851.9	1927.9	400.7	296.0	274.3	249.1	216.6	184.2	166.0	162.5
37.5°	3176.9	3140.8	1700.3	307.0	259.9	227.5	205.8	169.7	137.3	119.1	115.5
40°	3574.0	3465.8	1429.7	270.7	227.5	187.7	158.8	122.8	97.5	86.6	86.6
42.5°	4036.2	3779.8	1137.2	245.4	202.2	155.2	115.5	83.1	68.6	64.9	64.9
45°	4527.1	4072.1	844.8	227.5	176.8	122.8	83.1	57.9	50.6	46.9	46.9
47.5°	5032.6	4310.4	588.5	205.8	148.0	93.9	57.9	43.3	36.1	32.5	32.5
50°	5505.4	4465.7	415.1	184.2	126.3	68.6	43.3	32.5	25.2	25.2	25.2
52.5°	5834.0	4451.3	299.7	158.8	97.5	46.9	28.8	21.6	21.6	21.6	21.6
55°	6122.8	4397.2	234.6	137.3	75.7	32.5	21.6	18.1	18.1	14.5	14.5
57.5°	6368.3	4310.4	198.5	111.8	54.2	25.2	14.5	14.5	10.8	10.8	10.8
60°	6577.6	4202.2	166.0	93.9	36.1	18.1	10.8	7.2	7.2	3.7	7.2
62.5°	6862.8	4133.6	144.4	72.3	25.2	10.8	7.2	3.7	3.7	0.0	0.0
65°	7072.3	4003.7	122.8	50.6	14.5	7.2	3.7	3.7	0.0	0.0	0.0
67.5°	7079.5	3769.0	90.3	28.8	10.8	7.2	3.7	0.0	0.0	0.0	0.0
70°	6509.1	3213.0	57.9	14.5	7.2	3.7	3.7	0.0	0.0	0.0	0.0
71°	5985.5	2844.8	46.9	10.8	7.2	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	4931.4	2090.3	36.1	10.8	3.7	3.7	0.0	0.0	0.0	0.0	0.0
75°	2718.5	758.1	18.1	7.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	870.1	231.0	10.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.0	36.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.6	14.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.7	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)