

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: P265685

Luminaire Tested: **ARCH-L-AF72-210-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265685
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-AF72-210-D-U-T3-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA 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: 15966.8 lumens
Efficiency: N/A
Efficacy: 75.7 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 - G3

Input Watts (W): 211
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

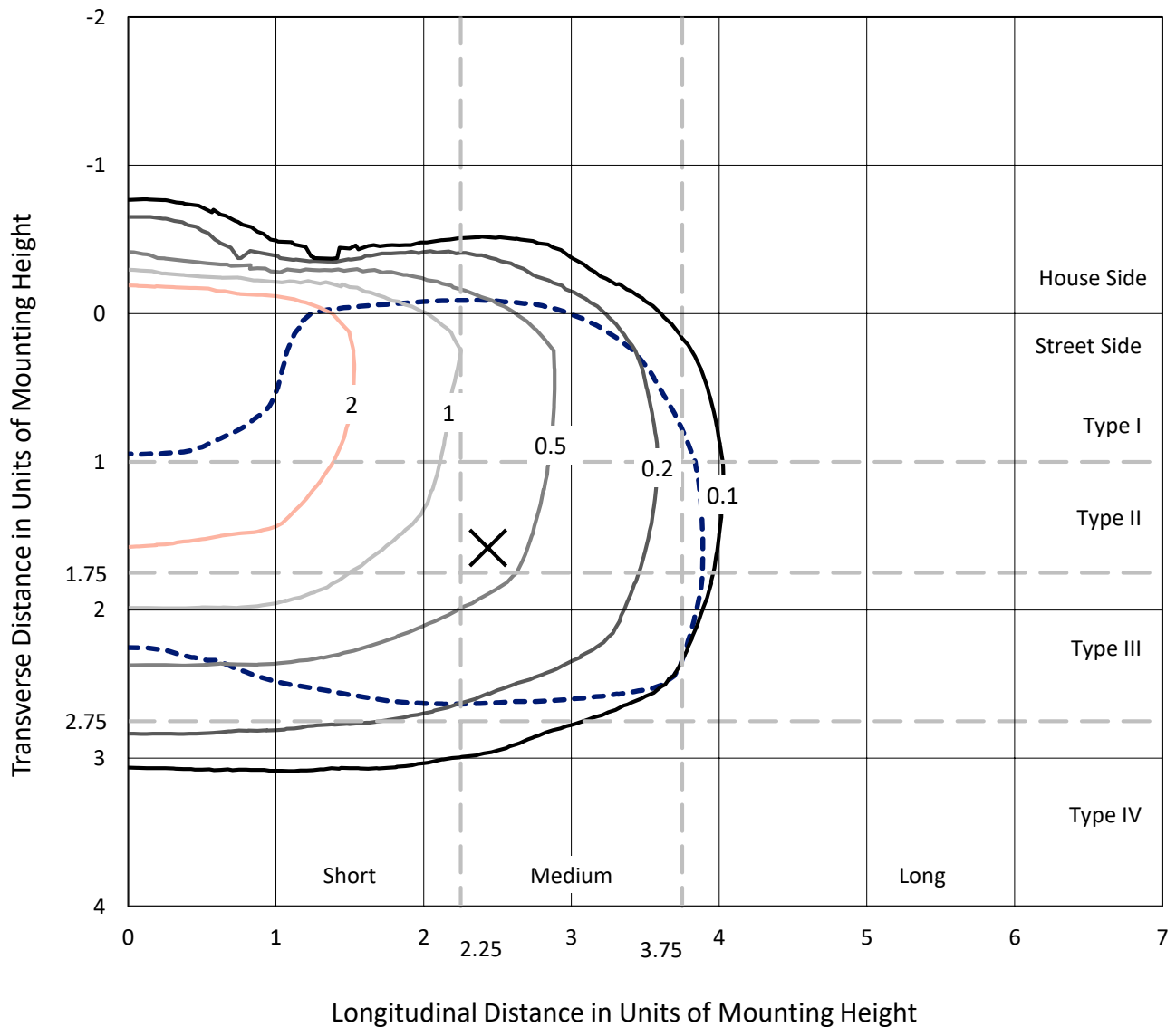


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

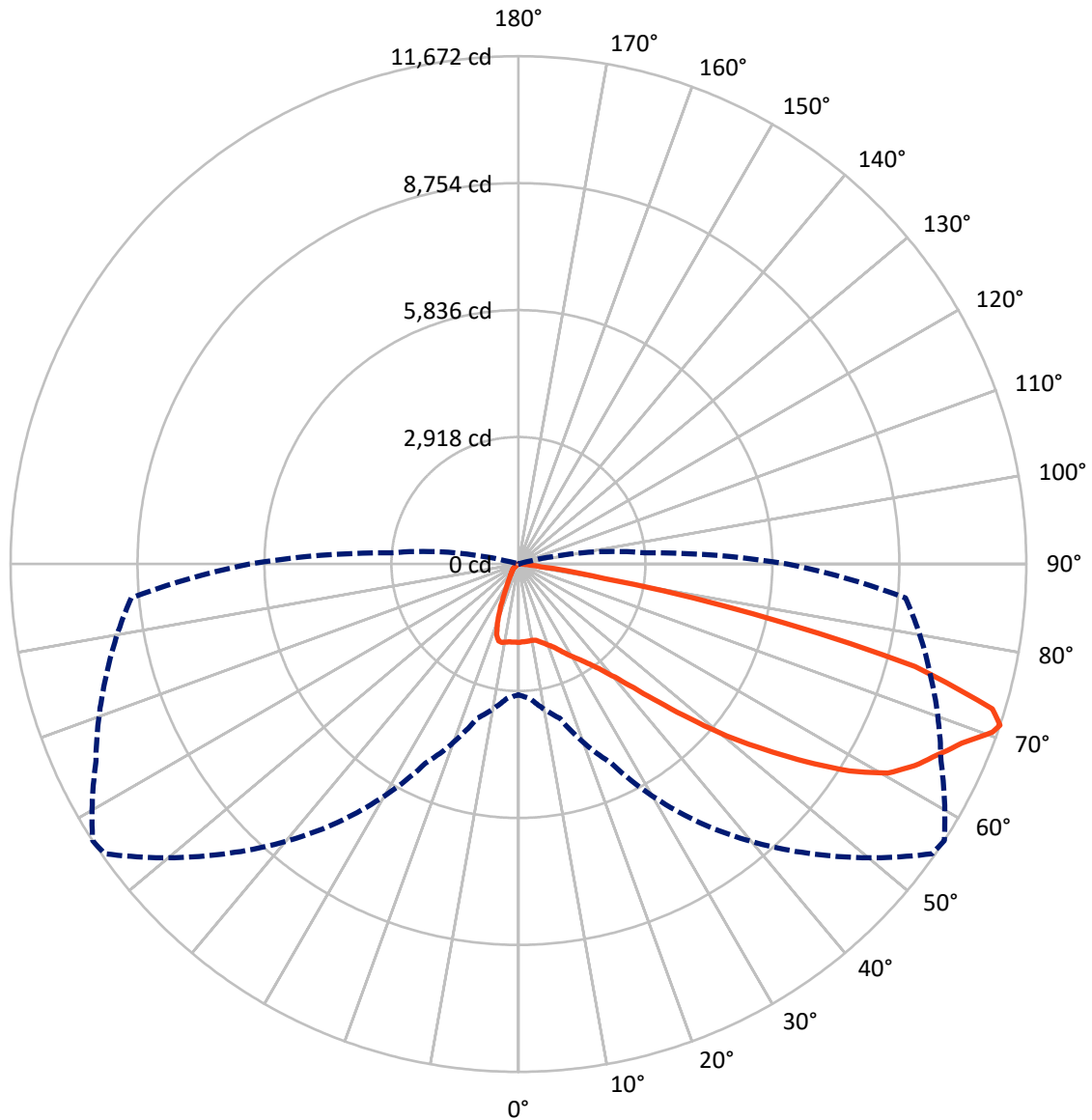


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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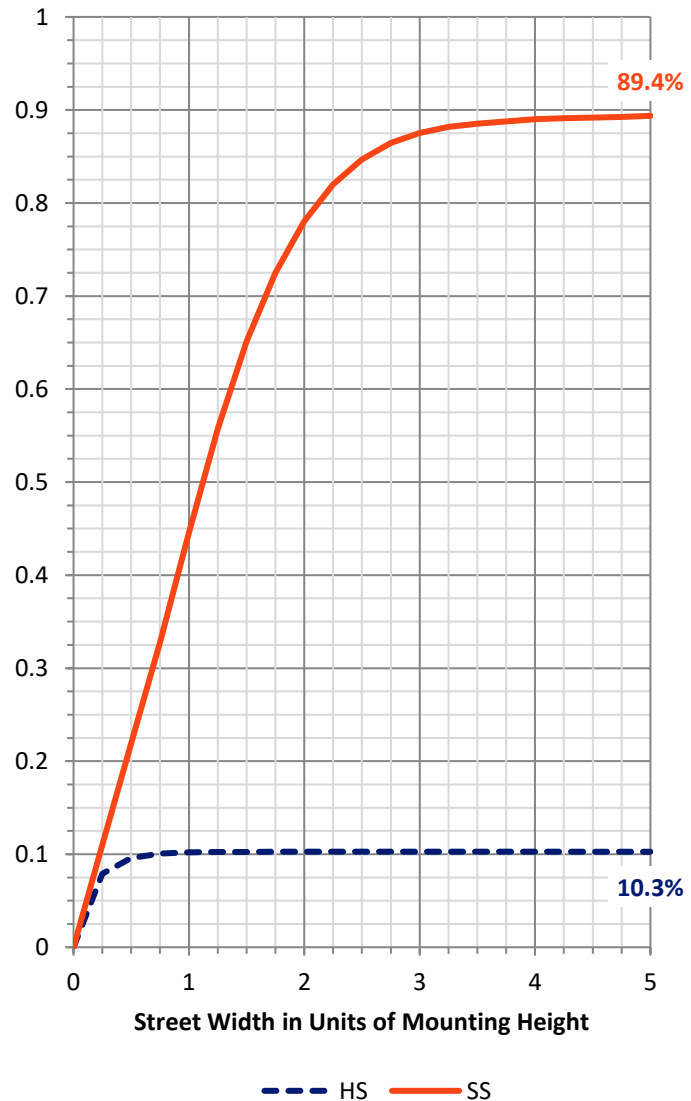
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.7	0.0	1654.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14312.1	0.0	14312.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	15966.8	0.0	15966.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	1.1
10°-20°	453.1	2.8
20°-30°	706.8	4.4
30°-40°	1194.7	7.5
40°-50°	2320.4	14.5
50°-60°	3896.7	24.4
60°-70°	4650.3	29.1
70°-80°	2450.8	15.3
80°-90°	124.5	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°	15966.8	100.0
0°-180°	15966.8	100.0



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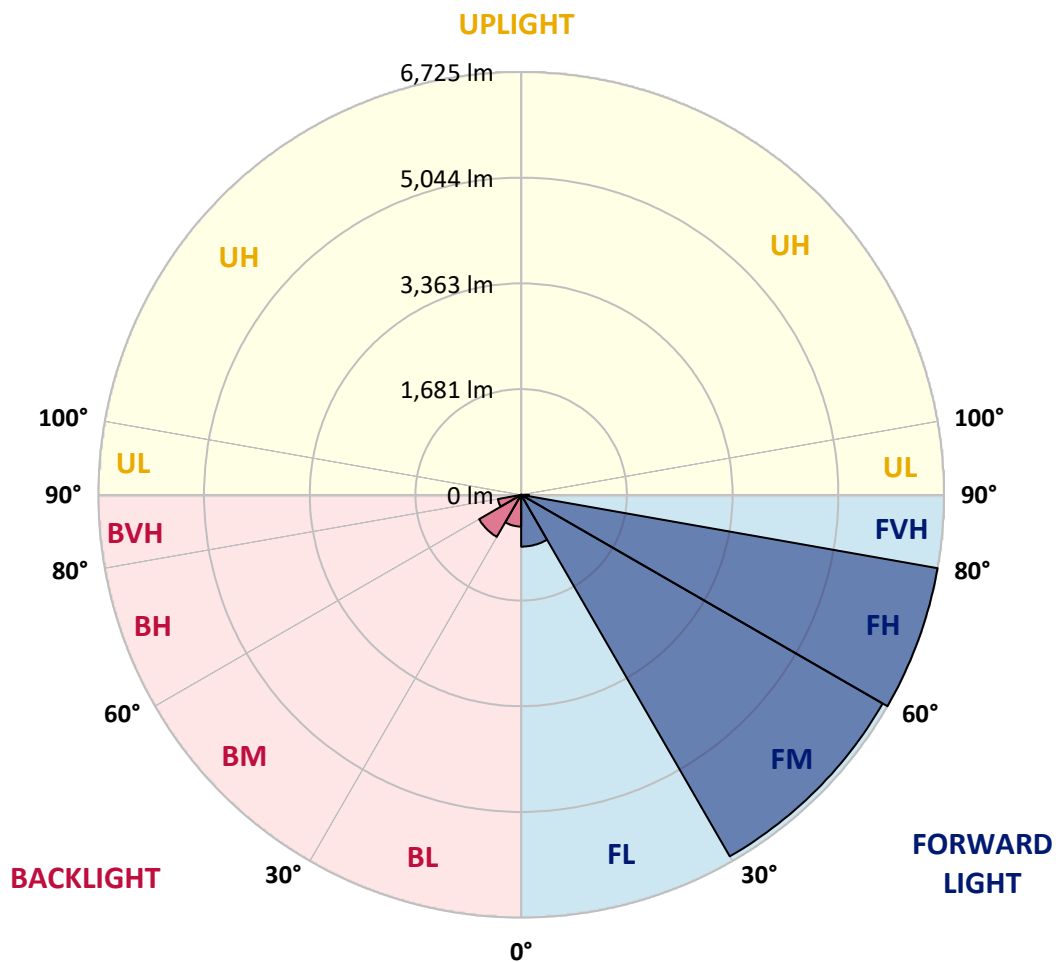
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	824.3	5.2			
FM	(30°-60°)	6639.1	41.6			
FH	(60°-80°)	6725.3	42.1			G3/7500
FVH	(80°-90°)	123.3	0.8			G2/225
BL	(0°-30°)	505.1	3.2	B2/1000		
BM	(30°-60°)	772.6	4.8	B1/1000		
BH	(60°-80°)	375.8	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: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4
2.5°	1778.5	1778.5	1778.5	1782.1	1785.9	1785.9	1793.3	1789.7	1789.7	1789.7	1797.0
5°	1730.0	1733.8	1737.5	1745.0	1759.8	1771.0	1789.7	1789.7	1793.3	1800.7	1804.4
7.5°	1663.1	1666.8	1677.9	1692.9	1722.6	1748.7	1778.5	1785.9	1797.0	1815.7	1823.1
10°	1622.2	1629.6	1644.4	1663.1	1696.5	1730.0	1767.2	1778.5	1811.9	1845.4	1864.1
12.5°	1611.0	1614.8	1629.6	1659.3	1700.3	1741.3	1789.7	1800.7	1849.2	1901.3	1930.9
15°	1629.6	1633.4	1640.8	1674.4	1722.6	1774.7	1837.9	1852.8	1912.4	1971.9	2009.1
17.5°	1663.1	1663.1	1670.6	1700.3	1752.5	1811.9	1893.7	1916.2	1983.1	2050.0	2091.0
20°	1685.4	1685.4	1696.5	1726.4	1785.9	1864.1	1960.7	1990.6	2064.9	2139.4	2176.6
22.5°	1707.8	1711.5	1722.6	1756.1	1823.1	1930.9	2042.6	2072.4	2158.0	2236.2	2273.3
25°	1771.0	1767.2	1771.0	1800.7	1878.8	2012.8	2154.2	2191.4	2280.7	2366.2	2384.9
27.5°	1945.9	1938.5	1890.0	1871.4	1930.9	2098.4	2295.6	2332.8	2437.0	2522.6	2522.6
30°	2347.7	2332.8	2213.8	2061.3	2012.8	2176.6	2429.6	2481.7	2615.5	2690.0	2667.6
32.5°	2857.4	2823.9	2671.4	2411.0	2217.5	2280.7	2570.9	2630.4	2801.6	2864.9	2816.5
35°	3415.4	3411.8	3222.0	2887.2	2611.8	2496.5	2753.2	2823.9	3039.8	3095.5	3017.3
37.5°	4007.1	4021.9	3895.5	3434.1	3110.4	2850.0	2995.0	3077.0	3341.1	3408.1	3333.6
40°	4665.5	4661.9	4613.5	4066.5	3709.5	3352.2	3344.7	3419.2	3739.1	3843.4	3739.1
42.5°	5499.1	5491.6	5316.7	4825.5	4434.9	4007.1	3854.5	3880.6	4237.8	4408.9	4256.3
45°	6347.3	6295.2	6094.3	5670.2	5324.2	4818.1	4527.9	4527.9	4833.1	5067.3	4829.3
47.5°	6819.8	6767.7	6685.8	6451.4	6347.3	5781.9	5353.9	5301.8	5539.9	5778.1	5443.2
50°	7441.2	7441.2	7236.6	7147.3	7325.9	6927.6	6265.5	6213.3	6328.6	6518.6	6079.4
52.5°	7932.4	7843.0	7697.8	7776.0	8285.7	8103.4	7177.0	7076.6	7165.9	7214.2	6633.9
55°	8136.8	8051.4	8040.2	8326.7	9115.5	8862.4	8110.8	8021.5	8014.1	7776.0	7117.5
57.5°	8177.8	8103.4	8244.9	8747.1	9922.8	9483.8	9041.0	8974.1	8765.8	8170.4	7612.2
60°	7831.9	7869.1	8211.3	8977.8	10399.0	10023.3	9826.1	9755.4	9275.4	8505.2	8163.0
62.5°	7121.3	7210.4	7850.5	9000.1	10224.1	10242.7	10261.3	10213.0	9669.7	8810.3	8717.3
65°	6280.3	6306.5	7076.6	8691.3	9919.1	10175.8	10581.3	10577.6	9971.1	9152.7	9342.5
67.5°	5175.3	5220.1	5886.0	7649.5	9308.9	10146.0	11001.8	10990.7	10313.5	9543.4	9714.5
70°	3850.9	3906.5	4446.2	5949.2	7947.1	9774.0	11552.5	11559.8	10674.4	9840.9	9457.7
71°	3002.6	3102.9	3668.5	5052.5	7251.4	9398.2	11604.6	11671.5	10715.3	9800.0	8929.4
72.5°	1473.4	1592.4	2303.1	3556.8	5967.8	8557.3	11262.2	11392.5	10458.5	9290.4	7634.6
75°	383.2	405.6	688.3	1454.7	3199.8	5670.2	9082.0	9413.1	8549.9	7072.9	4665.5
77.5°	241.9	249.3	323.7	565.6	1198.0	2154.2	5335.4	5499.1	4885.2	3582.9	1644.4
80°	171.1	174.9	204.6	364.6	699.5	628.8	1919.8	1990.6	1767.2	948.8	293.9
82.5°	104.2	104.2	148.8	234.4	431.5	342.3	505.9	539.5	476.2	264.1	96.7
85°	59.6	63.2	93.1	160.0	204.6	167.4	189.7	201.0	204.6	174.9	41.0
87.5°	48.4	52.1	81.8	133.9	111.6	81.8	81.8	85.6	89.3	104.2	18.7
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°	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4	1804.4
2.5°	1797.0	1797.0	1800.7	1797.0	1797.0	1797.0	1800.7	1800.7	1800.7	1808.2	1811.9
5°	1804.4	1804.4	1804.4	1800.7	1797.0	1797.0	1804.4	1808.2	1808.2	1819.3	1819.3
7.5°	1823.1	1823.1	1815.7	1808.2	1800.7	1789.7	1793.3	1797.0	1793.3	1797.0	1797.0
10°	1864.1	1864.1	1852.8	1837.9	1815.7	1782.1	1737.5	1681.6	1629.6	1611.0	1603.6
12.5°	1930.9	1927.3	1904.9	1878.8	1830.6	1715.3	1547.8	1350.6	1186.9	1142.3	1127.4
15°	2005.3	1998.0	1971.9	1927.3	1797.0	1491.9	1142.3	889.2	732.9	695.7	688.3
17.5°	2083.4	2072.4	2035.2	1945.9	1644.4	1108.8	736.7	558.0	472.5	465.1	468.7
20°	2165.4	2150.5	2098.4	1908.7	1328.2	740.5	476.2	431.5	424.1	424.1	427.9
22.5°	2258.3	2239.8	2169.0	1774.7	967.4	491.2	409.3	405.6	401.8	398.0	398.0
25°	2366.2	2343.9	2236.2	1532.9	666.1	401.8	390.7	379.5	372.1	364.6	360.8
27.5°	2496.5	2466.7	2288.2	1235.2	457.6	375.9	368.3	349.7	334.9	319.9	319.9
30°	2626.7	2589.5	2273.3	930.1	372.1	349.7	334.9	312.5	290.2	275.3	271.6
32.5°	2764.4	2727.2	2176.6	625.1	338.7	319.9	301.4	267.9	241.9	223.1	219.5
35°	2969.0	2939.3	1986.8	413.0	305.1	282.7	256.7	223.1	189.7	171.1	167.4
37.5°	3274.1	3237.0	1752.5	316.3	267.9	234.4	212.1	174.9	141.4	122.8	119.0
40°	3683.4	3571.8	1473.4	279.1	234.4	193.4	163.8	126.5	100.5	89.3	89.3
42.5°	4159.6	3895.5	1172.0	253.1	208.3	160.0	119.0	85.6	70.6	67.0	67.0
45°	4665.5	4196.8	870.5	234.4	182.3	126.5	85.6	59.6	52.1	48.4	48.4
47.5°	5186.5	4442.4	606.4	212.1	152.5	96.7	59.6	44.6	37.2	33.4	33.4
50°	5673.9	4602.3	427.9	189.7	130.3	70.6	44.6	33.4	26.1	26.1	26.1
52.5°	6012.4	4587.5	308.7	163.8	100.5	48.4	29.7	22.3	22.3	22.3	22.3
55°	6310.1	4531.7	241.9	141.4	78.2	33.4	22.3	18.7	18.7	14.9	14.9
57.5°	6563.0	4442.4	204.6	115.3	55.9	26.1	14.9	14.9	11.1	11.1	11.1
60°	6778.9	4330.8	171.1	96.7	37.2	18.7	11.1	7.5	7.5	3.8	7.5
62.5°	7072.9	4260.0	148.8	74.4	26.1	11.1	7.5	3.8	3.8	0.0	0.0
65°	7288.6	4126.2	126.5	52.1	14.9	7.5	3.8	3.8	0.0	0.0	0.0
67.5°	7296.0	3884.4	93.1	29.7	11.1	7.5	3.8	0.0	0.0	0.0	0.0
70°	6708.3	3311.3	59.6	14.9	7.5	3.8	3.8	0.0	0.0	0.0	0.0
71°	6168.8	2931.8	48.4	11.1	7.5	3.8	0.0	0.0	0.0	0.0	0.0
72.5°	5082.3	2154.2	37.2	11.1	3.8	3.8	0.0	0.0	0.0	0.0	0.0
75°	2801.6	781.3	18.7	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	896.7	238.1	11.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.5	37.2	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.1	14.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.8	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)