

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: P265667

Luminaire Tested: **ARCH-L-AF72-190-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265667
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-AF72-190-D-U-T3-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 810mA 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: 14776.2 lumens
Efficiency: N/A
Efficacy: 78.2 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): 189
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

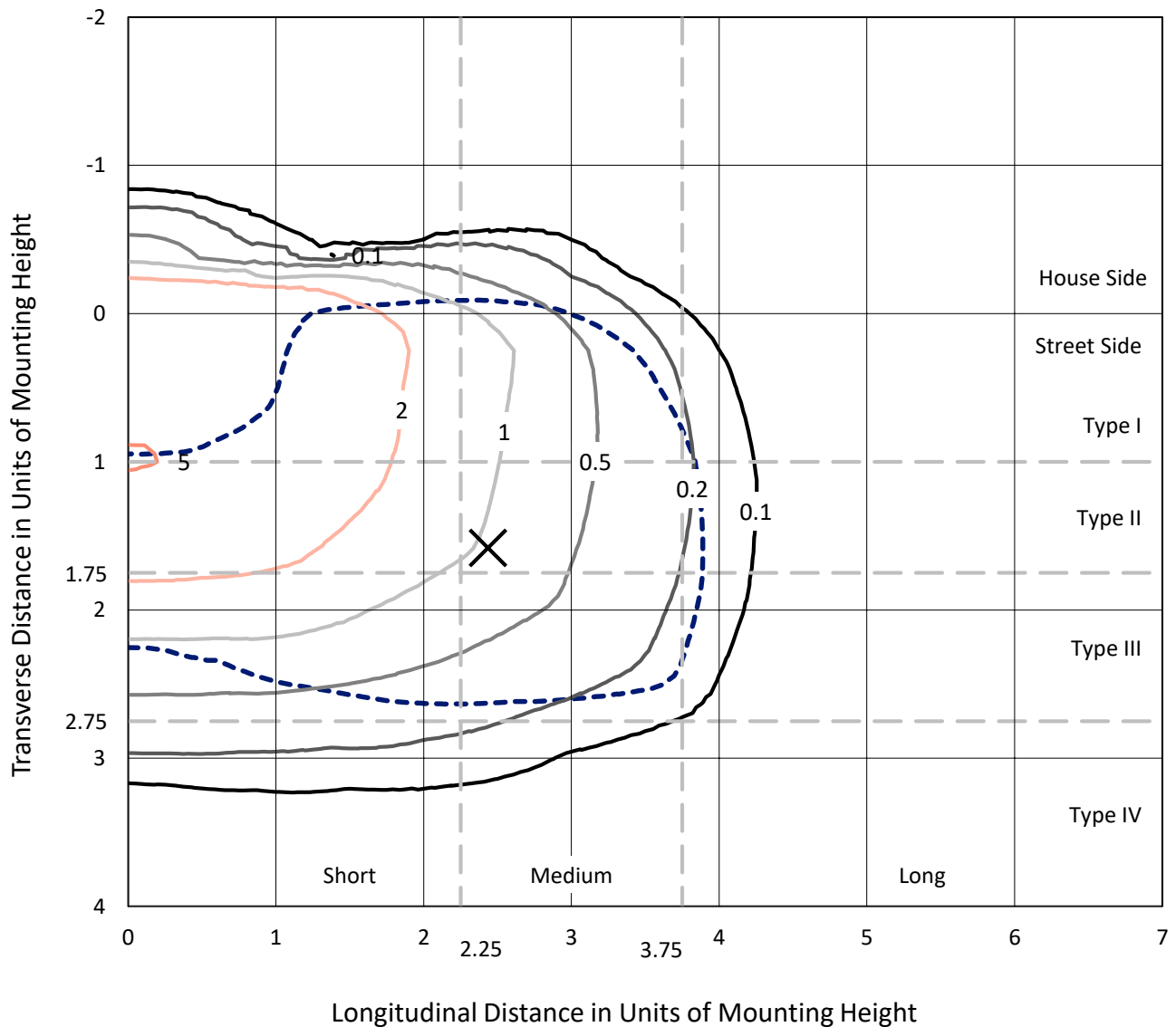


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

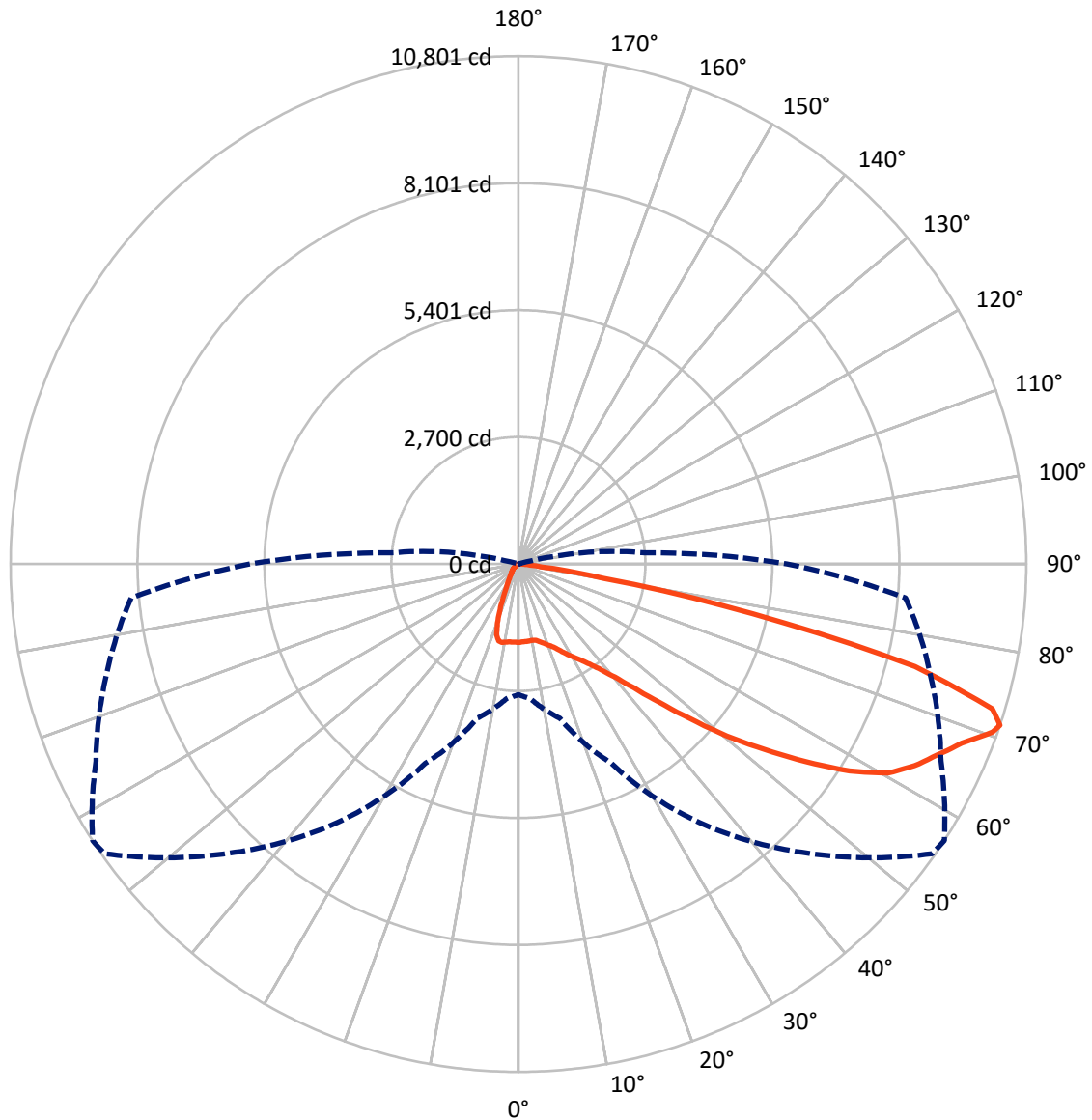


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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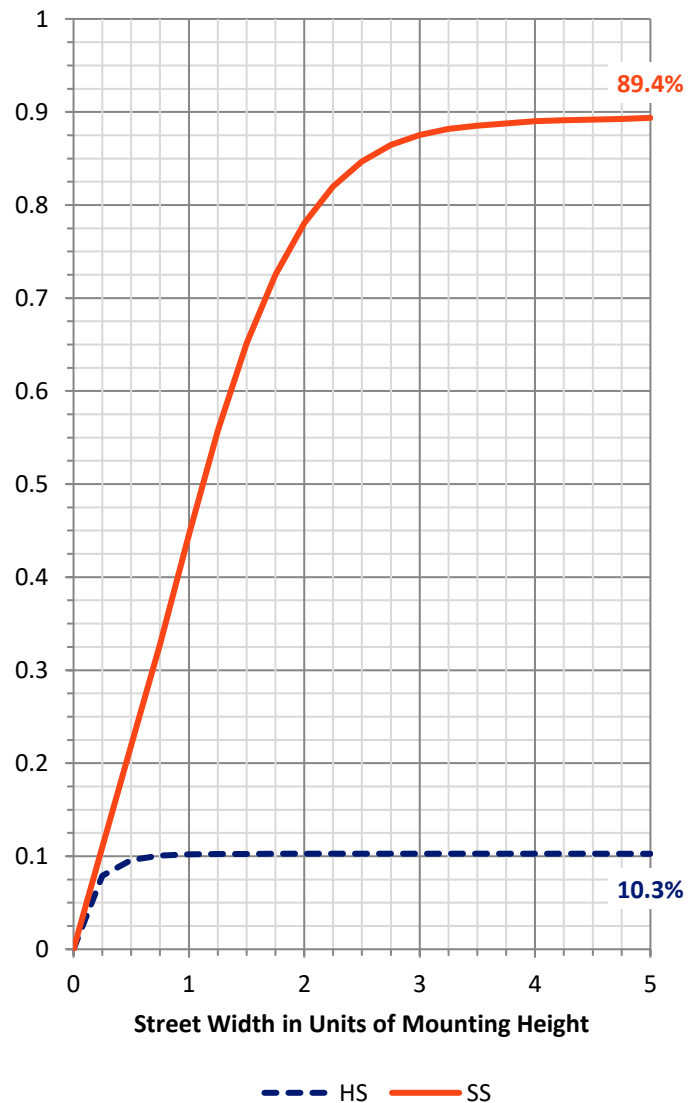
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1531.3	0.0	1531.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	13244.9	0.0	13244.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	14776.2	0.0	14776.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	1.1
10°-20°	419.3	2.8
20°-30°	654.1	4.4
30°-40°	1105.6	7.5
40°-50°	2147.4	14.5
50°-60°	3606.1	24.4
60°-70°	4303.5	29.1
70°-80°	2268.0	15.3
80°-90°	115.2	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°	14776.2	100.0
0°-180°	14776.2	100.0

Coefficient of Utilization



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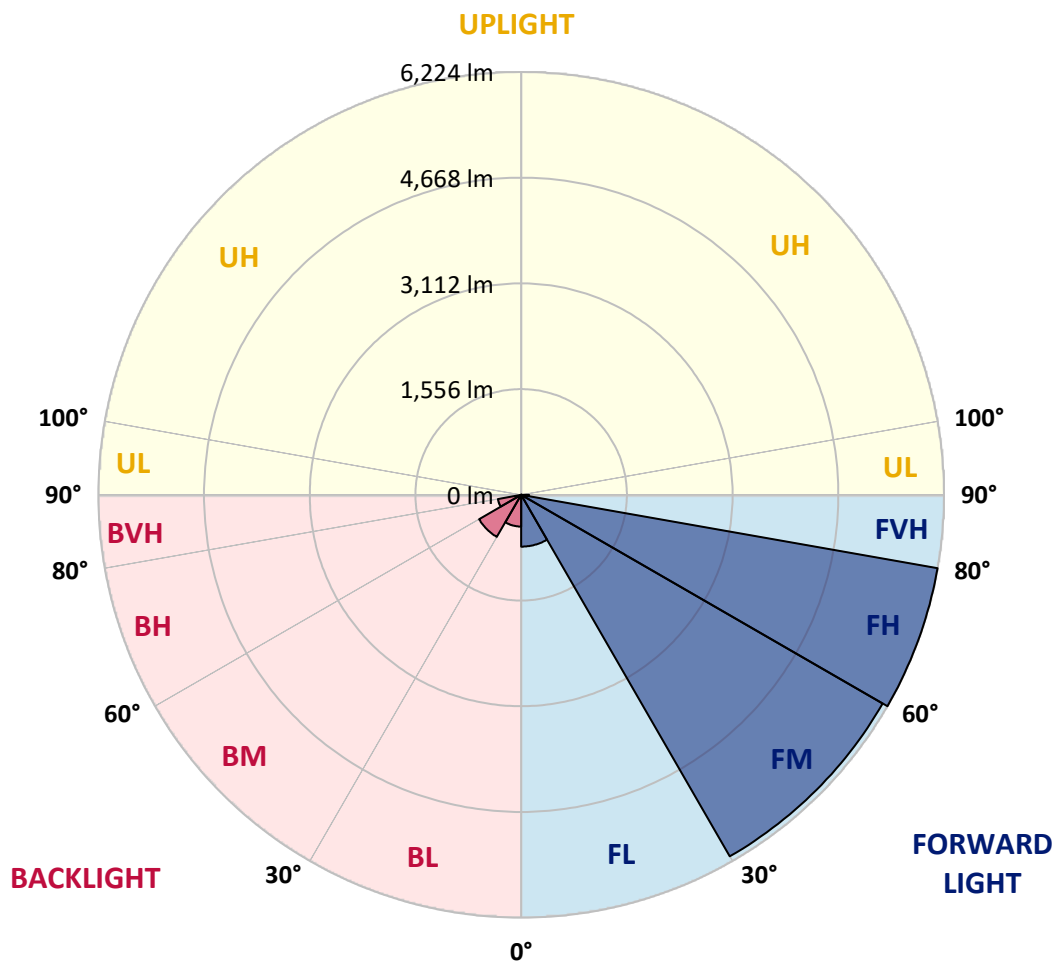
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.9	5.2			
FM	(30°-60°)	6144.1	41.6			
FH	(60°-80°)	6223.8	42.1			G3/7500
FVH	(80°-90°)	114.1	0.8			G2/225
BL	(0°-30°)	467.4	3.2	B1/500		
BM	(30°-60°)	715.0	4.8	B1/1000		
BH	(60°-80°)	347.7	2.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9
2.5°	1645.9	1645.9	1645.9	1649.3	1652.7	1652.7	1659.6	1656.1	1656.1	1656.1	1663.0
5°	1601.0	1604.6	1608.0	1614.9	1628.5	1639.0	1656.1	1656.1	1659.6	1666.4	1669.9
7.5°	1539.1	1542.5	1552.9	1566.6	1594.2	1618.2	1645.9	1652.7	1663.0	1680.3	1687.1
10°	1501.2	1508.2	1521.9	1539.1	1570.1	1601.0	1635.5	1645.9	1676.9	1707.8	1725.0
12.5°	1490.8	1494.3	1508.2	1535.7	1573.6	1611.4	1656.1	1666.4	1711.2	1759.5	1787.0
15°	1508.2	1511.6	1518.5	1549.4	1594.2	1642.5	1700.9	1714.7	1769.8	1824.8	1859.3
17.5°	1539.1	1539.1	1546.1	1573.6	1621.7	1676.9	1752.6	1773.3	1835.1	1897.2	1935.0
20°	1559.7	1559.7	1570.1	1597.6	1652.7	1725.0	1814.5	1842.1	1911.0	1979.9	2014.3
22.5°	1580.4	1583.8	1594.2	1625.2	1687.1	1787.0	1890.4	1917.8	1997.0	2069.3	2103.8
25°	1639.0	1635.5	1639.0	1666.4	1738.8	1862.7	1993.6	2028.1	2110.7	2189.9	2207.0
27.5°	1800.8	1793.8	1749.1	1731.9	1787.0	1942.0	2124.4	2158.8	2255.3	2334.4	2334.4
30°	2172.6	2158.8	2048.7	1907.6	1862.7	2014.3	2248.4	2296.5	2420.6	2489.5	2468.7
32.5°	2644.3	2613.3	2472.1	2231.2	2052.1	2110.7	2379.3	2434.2	2592.7	2651.3	2606.5
35°	3160.9	3157.5	2981.7	2671.9	2417.1	2310.4	2548.0	2613.3	2813.0	2864.8	2792.4
37.5°	3708.4	3722.0	3605.0	3178.1	2878.4	2637.5	2771.7	2847.4	3092.0	3153.9	3085.0
40°	4317.8	4314.3	4269.6	3763.4	3432.9	3102.2	3095.4	3164.3	3460.5	3556.7	3460.5
42.5°	5089.0	5082.2	4920.2	4465.7	4104.3	3708.4	3567.1	3591.2	3921.8	4080.1	3939.0
45°	5874.0	5825.9	5639.9	5247.4	4927.2	4458.8	4190.4	4190.4	4472.8	4689.6	4469.2
47.5°	6311.3	6263.2	6187.3	5970.5	5874.0	5350.7	4954.7	4906.5	5126.8	5347.3	5037.3
50°	6886.3	6886.3	6697.0	6614.3	6779.6	6411.2	5798.3	5750.1	5856.8	6032.4	5626.2
52.5°	7340.8	7258.1	7123.9	7196.2	7667.9	7499.2	6641.9	6549.0	6631.6	6676.4	6139.1
55°	7530.2	7451.0	7440.8	7705.8	8435.8	8201.6	7506.1	7423.5	7416.5	7196.2	6586.8
57.5°	7568.1	7499.2	7630.1	8094.8	9183.0	8776.6	8367.0	8304.9	8112.1	7561.3	7044.7
60°	7247.9	7282.3	7599.0	8308.3	9623.6	9275.9	9093.5	9028.0	8583.8	7871.0	7554.2
62.5°	6590.2	6672.9	7265.1	8329.1	9461.8	9479.0	9496.3	9451.4	8948.7	8153.5	8067.3
65°	5812.0	5836.2	6549.0	8043.2	9179.5	9417.0	9792.3	9788.9	9227.7	8470.2	8645.7
67.5°	4789.5	4830.7	5447.1	7079.2	8614.7	9389.5	10181.4	10171.1	9544.4	8831.7	8990.1
70°	3563.7	3615.3	4114.5	5505.6	7354.7	9045.3	10691.0	10697.9	9878.4	9107.1	8752.5
71°	2778.6	2871.6	3395.0	4675.8	6710.7	8697.4	10739.2	10801.2	9916.3	9069.3	8263.6
72.5°	1363.4	1473.7	2131.3	3291.7	5522.8	7919.3	10422.5	10543.0	9678.8	8597.6	7065.3
75°	354.7	375.3	637.0	1346.3	2961.2	5247.4	8404.7	8711.3	7912.5	6545.5	4317.8
77.5°	223.8	230.7	299.6	523.4	1108.7	1993.6	4937.5	5089.0	4520.9	3315.7	1521.9
80°	158.5	161.9	189.4	337.5	647.3	581.9	1776.7	1842.1	1635.5	878.1	271.9
82.5°	96.4	96.4	137.7	216.9	399.3	316.7	468.2	499.3	440.7	244.5	89.6
85°	55.1	58.5	86.1	148.0	189.4	155.0	175.6	185.9	189.4	161.9	37.9
87.5°	44.7	48.1	75.7	124.0	103.2	75.7	75.7	79.2	82.6	96.4	17.2
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°	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9
2.5°	1663.0	1663.0	1666.4	1663.0	1663.0	1663.0	1666.4	1666.4	1666.4	1673.5	1676.9
5°	1669.9	1669.9	1669.9	1666.4	1663.0	1663.0	1669.9	1673.5	1673.5	1683.8	1683.8
7.5°	1687.1	1687.1	1680.3	1673.5	1666.4	1656.1	1659.6	1663.0	1659.6	1663.0	1663.0
10°	1725.0	1725.0	1714.7	1700.9	1680.3	1649.3	1608.0	1556.4	1508.2	1490.8	1484.0
12.5°	1787.0	1783.6	1763.0	1738.8	1694.1	1587.2	1432.3	1249.9	1098.4	1057.0	1043.3
15°	1855.9	1849.0	1824.8	1783.6	1663.0	1380.8	1057.0	822.8	678.3	643.8	637.0
17.5°	1928.2	1917.8	1883.3	1800.8	1521.9	1026.0	681.8	516.4	437.2	430.4	433.8
20°	2003.8	1990.1	1942.0	1766.3	1229.2	685.1	440.7	399.3	392.5	392.5	396.0
22.5°	2089.9	2072.7	2007.4	1642.5	895.3	454.5	378.7	375.3	371.9	368.5	368.5
25°	2189.9	2169.1	2069.3	1418.6	616.3	371.9	361.6	351.1	344.3	337.5	334.0
27.5°	2310.4	2282.9	2117.6	1143.2	423.6	347.7	340.8	323.7	309.8	296.1	296.1
30°	2430.9	2396.5	2103.8	860.8	344.3	323.7	309.8	289.3	268.6	254.8	251.3
32.5°	2558.3	2523.9	2014.3	578.5	313.2	296.1	279.0	247.9	223.8	206.6	203.1
35°	2747.6	2720.1	1838.7	382.1	282.3	261.6	237.6	206.6	175.6	158.5	155.0
37.5°	3030.1	2995.6	1621.7	292.7	247.9	216.9	196.3	161.9	130.9	113.6	110.2
40°	3408.7	3305.5	1363.4	258.3	216.9	179.0	151.5	117.0	93.0	82.6	82.6
42.5°	3849.4	3605.0	1084.7	234.2	192.9	148.0	110.2	79.2	65.4	62.0	62.0
45°	4317.8	3883.9	805.7	216.9	168.7	117.0	79.2	55.1	48.1	44.7	44.7
47.5°	4799.7	4111.2	561.3	196.3	141.2	89.6	55.1	41.3	34.5	31.0	31.0
50°	5250.9	4259.3	396.0	175.6	120.6	65.4	41.3	31.0	24.2	24.2	24.2
52.5°	5564.1	4245.4	285.8	151.5	93.0	44.7	27.6	20.7	20.7	20.7	20.7
55°	5839.6	4193.7	223.8	130.9	72.4	31.0	20.7	17.2	17.2	13.7	13.7
57.5°	6073.7	4111.2	189.4	106.8	51.7	24.2	13.7	13.7	10.3	10.3	10.3
60°	6273.5	4007.9	158.5	89.6	34.5	17.2	10.3	6.8	6.8	3.5	6.8
62.5°	6545.5	3942.4	137.7	68.9	24.2	10.3	6.8	3.5	3.5	0.0	0.0
65°	6745.2	3818.4	117.0	48.1	13.7	6.8	3.5	3.5	0.0	0.0	0.0
67.5°	6752.0	3594.7	86.1	27.6	10.3	6.8	3.5	0.0	0.0	0.0	0.0
70°	6208.0	3064.4	55.1	13.7	6.8	3.5	3.5	0.0	0.0	0.0	0.0
71°	5708.8	2713.2	44.7	10.3	6.8	3.5	0.0	0.0	0.0	0.0	0.0
72.5°	4703.3	1993.6	34.5	10.3	3.5	3.5	0.0	0.0	0.0	0.0	0.0
75°	2592.7	723.0	17.2	6.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	829.9	220.4	10.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.2	34.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.1	13.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	3.5	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)