

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: P265703

Luminaire Tested: **ARCH-L-AF72-230-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265703
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-AF72-230-D-U-T3-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 980mA 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: 16940.4 lumens
Efficiency: N/A
Efficacy: 74.0 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): 229
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

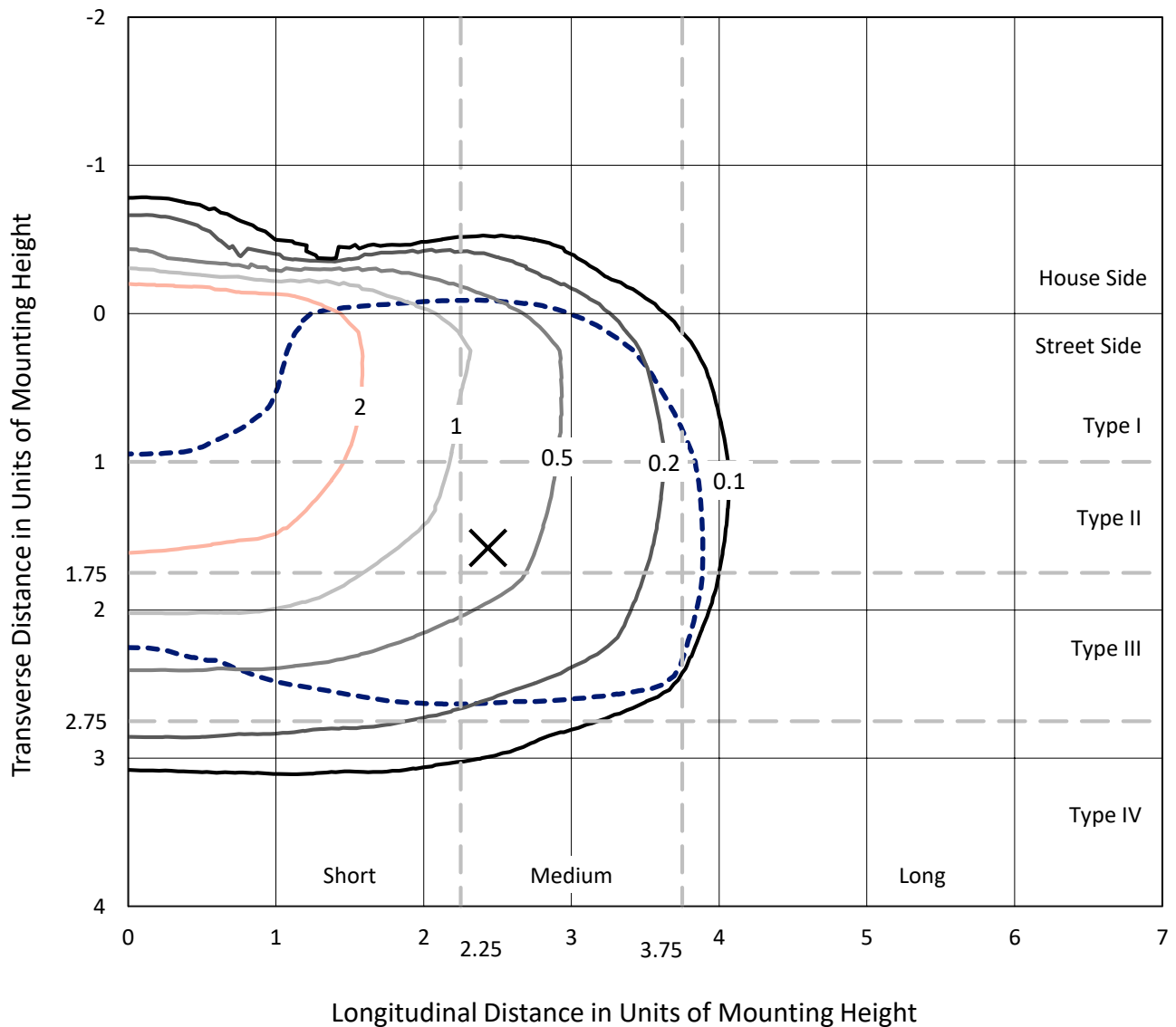


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

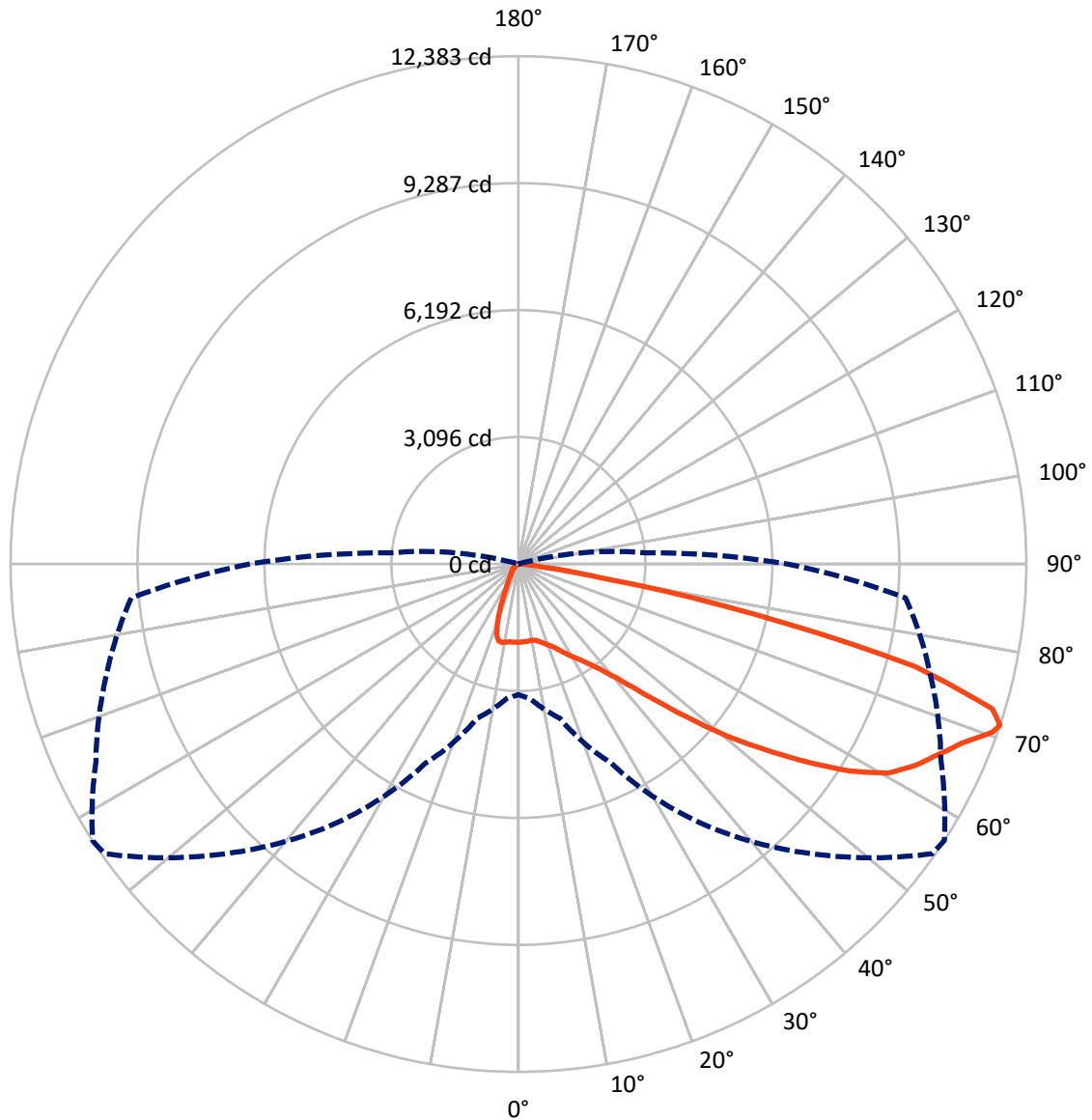


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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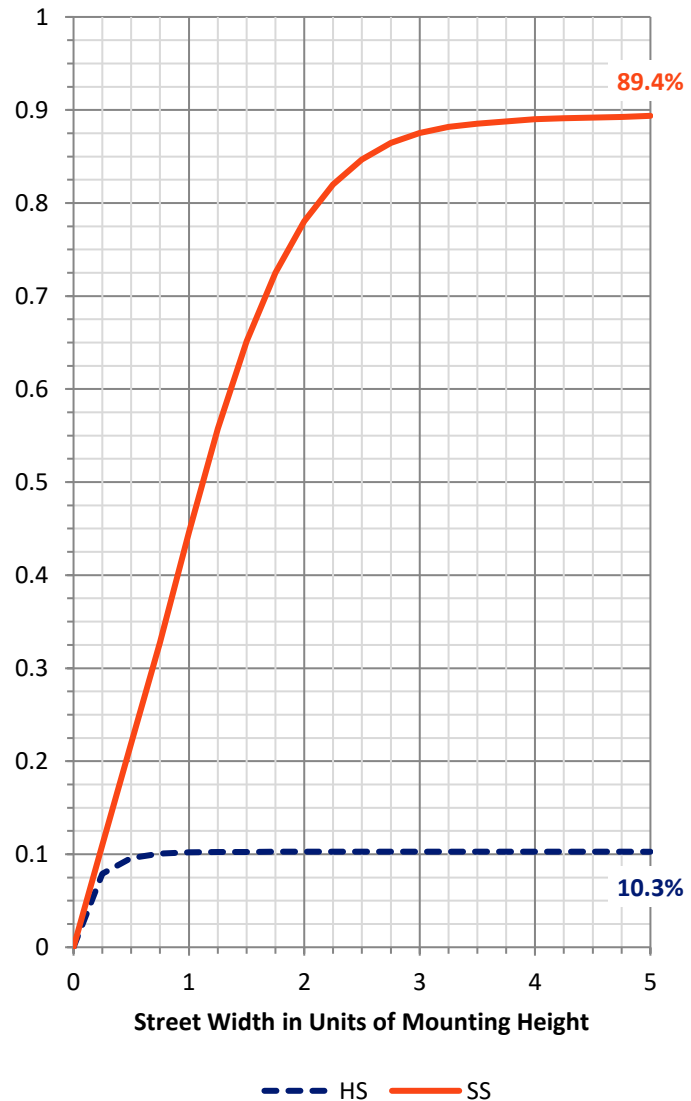
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1755.5	0.0	1755.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15184.8	0.0	15184.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	16940.4	0.0	16940.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.1
10°-20°	480.7	2.8
20°-30°	750.0	4.4
30°-40°	1267.5	7.5
40°-50°	2461.9	14.5
50°-60°	4134.3	24.4
60°-70°	4933.9	29.1
70°-80°	2600.2	15.3
80°-90°	132.1	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°	16940.4	100.0
0°-180°	16940.4	100.0

Coefficient of Utilization



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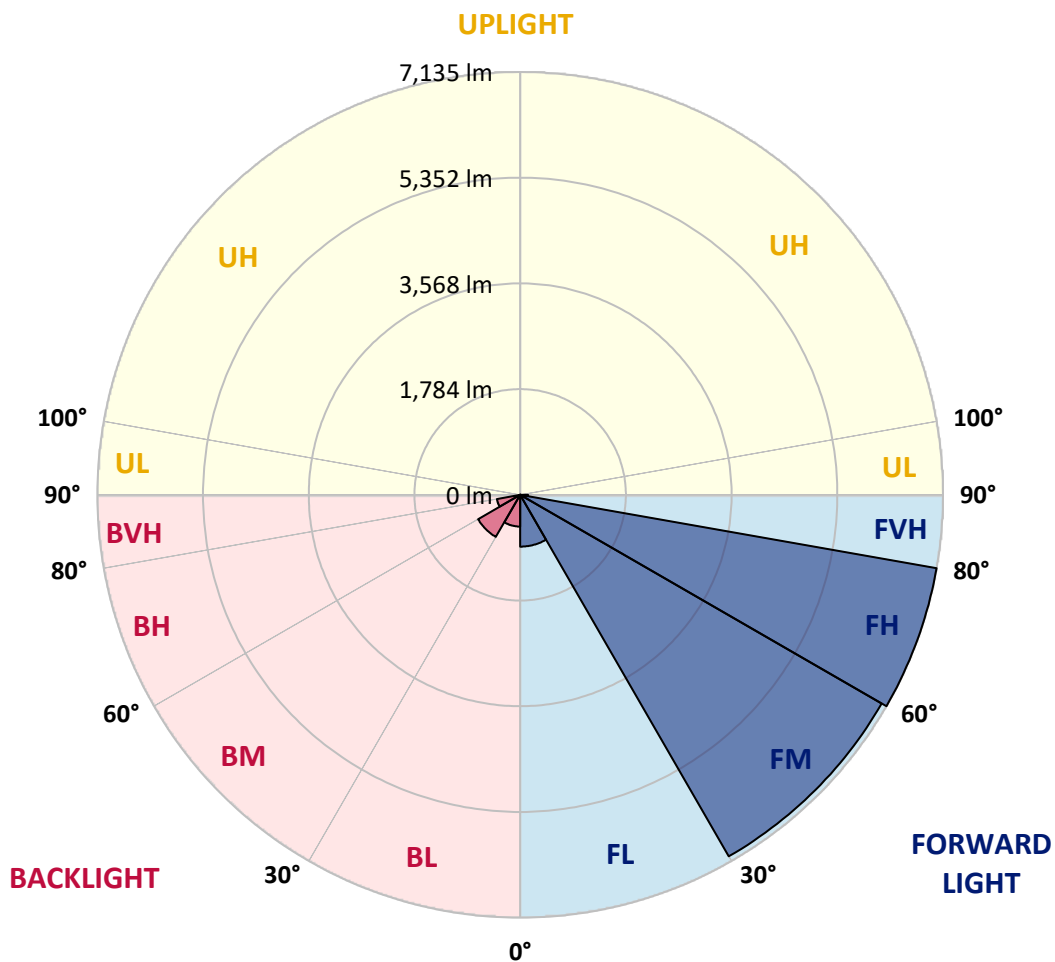
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.6	5.2			
FM	(30°-60°)	7044.0	41.6			
FH	(60°-80°)	7135.4	42.1			G3/7500
FVH	(80°-90°)	130.9	0.8			G2/225
BL	(0°-30°)	535.9	3.2	B2/1000		
BM	(30°-60°)	819.7	4.8	B1/1000		
BH	(60°-80°)	398.7	2.4	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5
2.5°	1886.9	1886.9	1886.9	1890.8	1894.7	1894.7	1902.7	1898.7	1898.7	1898.7	1906.7
5°	1835.5	1839.5	1843.4	1851.3	1867.1	1879.0	1898.7	1898.7	1902.7	1910.5	1914.5
7.5°	1764.5	1768.5	1780.4	1796.2	1827.7	1855.3	1886.9	1894.7	1906.7	1926.3	1934.3
10°	1721.2	1729.0	1744.8	1764.5	1800.1	1835.5	1875.0	1886.9	1922.5	1957.9	1977.7
12.5°	1709.2	1713.2	1729.0	1760.6	1803.9	1847.5	1898.7	1910.5	1961.9	2017.1	2048.8
15°	1729.0	1732.9	1740.8	1776.4	1827.7	1882.9	1950.0	1965.9	2029.0	2092.2	2131.6
17.5°	1764.5	1764.5	1772.4	1803.9	1859.2	1922.5	2009.2	2033.0	2104.0	2175.1	2218.5
20°	1788.2	1788.2	1800.1	1831.6	1894.7	1977.7	2080.4	2111.8	2190.8	2269.7	2309.3
22.5°	1811.9	1815.8	1827.7	1863.3	1934.3	2048.8	2167.2	2198.7	2289.5	2372.5	2411.9
25°	1879.0	1875.0	1879.0	1910.5	1993.5	2135.6	2285.6	2325.1	2419.9	2510.7	2530.3
27.5°	2064.6	2056.6	2005.2	1985.6	2048.8	2226.4	2435.6	2475.1	2585.6	2676.4	2676.4
30°	2490.8	2475.1	2348.8	2187.0	2135.6	2309.3	2577.6	2632.9	2775.0	2854.1	2830.3
32.5°	3031.7	2996.1	2834.3	2558.0	2352.8	2419.9	2727.8	2790.9	2972.4	3039.5	2988.2
35°	3623.8	3619.8	3418.5	3063.2	2771.1	2648.7	2921.1	2996.1	3225.1	3284.4	3201.4
37.5°	4251.4	4267.2	4133.0	3643.5	3300.1	3023.8	3177.8	3264.5	3544.8	3615.9	3536.9
40°	4950.1	4946.2	4894.9	4314.6	3935.7	3556.7	3548.8	3627.7	3967.3	4077.8	3967.3
42.5°	5834.3	5826.4	5640.9	5119.9	4705.4	4251.4	4089.5	4117.2	4496.1	4677.7	4515.9
45°	6734.4	6679.1	6465.9	6015.9	5648.8	5112.0	4804.0	4804.0	5127.7	5376.4	5123.8
47.5°	7235.7	7180.4	7093.6	6844.8	6734.4	6134.3	5680.4	5625.1	5877.8	6130.5	5775.2
50°	7894.9	7894.9	7677.9	7583.0	7772.6	7350.2	6647.5	6592.2	6714.7	6916.0	6450.2
52.5°	8416.0	8321.3	8167.3	8250.3	8791.1	8597.6	7614.7	7508.0	7602.9	7654.1	7038.3
55°	8633.2	8542.3	8530.5	8834.4	9671.3	9402.9	8605.5	8510.7	8502.8	8250.3	7551.5
57.5°	8676.5	8597.6	8747.5	9280.5	10527.9	10062.0	9592.3	9521.2	9300.2	8668.6	8076.5
60°	8309.4	8348.8	8712.0	9525.2	11033.2	10634.5	10425.2	10350.2	9841.0	9024.0	8660.6
62.5°	7555.5	7650.1	8329.2	9549.0	10847.7	10867.3	10887.1	10835.7	10259.5	9347.7	9248.9
65°	6663.3	6690.9	7508.0	9221.3	10524.0	10796.3	11226.6	11222.6	10579.2	9710.8	9912.1
67.5°	5490.9	5538.3	6244.8	8115.9	9876.5	10764.7	11672.7	11660.8	10942.3	10125.2	10306.9
70°	4085.6	4144.8	4717.2	6312.0	8431.9	10369.9	12256.8	12264.7	11325.3	10441.0	10034.4
71°	3185.6	3292.2	3892.1	5360.6	7693.7	9971.2	12312.1	12383.1	11368.7	10397.6	9474.0
72.5°	1563.2	1689.5	2443.5	3773.8	6331.8	9079.2	11949.0	12087.1	11096.4	9856.8	8100.1
75°	406.7	430.3	730.3	1543.5	3394.9	6015.9	9635.8	9987.0	9071.3	7504.1	4950.1
77.5°	256.6	264.6	343.4	600.0	1271.1	2285.6	5660.7	5834.3	5183.0	3801.4	1744.8
80°	181.5	185.5	217.1	386.9	742.1	667.1	2036.8	2111.8	1875.0	1006.6	311.8
82.5°	110.5	110.5	157.9	248.7	457.9	363.2	536.8	572.4	505.2	280.4	102.6
85°	63.2	67.2	98.6	169.7	217.1	177.7	201.3	213.2	217.1	185.5	43.4
87.5°	51.4	55.2	86.9	142.1	118.4	86.9	86.9	90.8	94.7	110.5	19.8
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°	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5
2.5°	1906.7	1906.7	1910.5	1906.7	1906.7	1906.7	1910.5	1910.5	1910.5	1918.5	1922.5
5°	1914.5	1914.5	1914.5	1910.5	1906.7	1906.7	1914.5	1918.5	1918.5	1930.3	1930.3
7.5°	1934.3	1934.3	1926.3	1918.5	1910.5	1898.7	1902.7	1906.7	1902.7	1906.7	1906.7
10°	1977.7	1977.7	1965.9	1950.0	1926.3	1890.8	1843.4	1784.3	1729.0	1709.2	1701.4
12.5°	2048.8	2044.8	2021.0	1993.5	1942.1	1819.7	1642.1	1432.9	1259.2	1211.9	1196.1
15°	2127.6	2119.8	2092.2	2044.8	1906.7	1583.0	1211.9	943.4	777.7	738.1	730.3
17.5°	2210.5	2198.7	2159.3	2064.6	1744.8	1176.3	781.5	592.2	501.3	493.3	497.4
20°	2297.4	2281.7	2226.4	2025.0	1409.3	785.6	505.2	457.9	450.1	450.1	454.0
22.5°	2396.0	2376.3	2301.4	1882.9	1026.4	521.0	434.2	430.3	426.3	422.4	422.4
25°	2510.7	2486.9	2372.5	1626.3	706.5	426.3	414.5	402.6	394.7	386.9	382.9
27.5°	2648.7	2617.1	2427.7	1310.5	485.5	398.7	390.9	371.1	355.3	339.5	339.5
30°	2786.9	2747.5	2411.9	986.9	394.7	371.1	355.3	331.6	307.8	292.0	288.1
32.5°	2933.0	2893.5	2309.3	663.2	359.2	339.5	319.7	284.3	256.6	236.9	232.9
35°	3150.0	3118.5	2108.0	438.2	323.7	300.0	272.4	236.9	201.3	181.5	177.7
37.5°	3473.7	3434.3	1859.2	335.5	284.3	248.7	225.0	185.5	149.9	130.3	126.3
40°	3907.9	3789.6	1563.2	296.0	248.7	205.3	173.7	134.1	106.5	94.7	94.7
42.5°	4413.3	4133.0	1243.4	268.5	221.1	169.7	126.3	90.8	75.0	71.1	71.1
45°	4950.1	4452.8	923.6	248.7	193.4	134.1	90.8	63.2	55.2	51.4	51.4
47.5°	5502.7	4713.2	643.5	225.0	161.9	102.6	63.2	47.4	39.4	35.6	35.6
50°	6019.9	4882.9	454.0	201.3	138.2	75.0	47.4	35.6	27.7	27.7	27.7
52.5°	6379.1	4867.2	327.6	173.7	106.5	51.4	31.6	23.6	23.6	23.6	23.6
55°	6694.9	4808.0	256.6	149.9	83.0	35.6	23.6	19.8	19.8	15.8	15.8
57.5°	6963.3	4713.2	217.1	122.3	59.2	27.7	15.8	15.8	11.9	11.9	11.9
60°	7192.3	4594.8	181.5	102.6	39.4	19.8	11.9	7.8	7.8	4.0	7.8
62.5°	7504.1	4519.8	157.9	79.0	27.7	11.9	7.8	4.0	4.0	0.0	0.0
65°	7733.1	4377.7	134.1	55.2	15.8	7.8	4.0	4.0	0.0	0.0	0.0
67.5°	7741.0	4121.2	98.6	31.6	11.9	7.8	4.0	0.0	0.0	0.0	0.0
70°	7117.4	3513.2	63.2	15.8	7.8	4.0	4.0	0.0	0.0	0.0	0.0
71°	6545.0	3110.7	51.4	11.9	7.8	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	5392.3	2285.6	39.4	11.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0
75°	2972.4	829.0	19.8	7.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	951.3	252.7	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	161.9	39.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.2	15.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	4.0	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)