

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: P198897

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL4-7050-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12620 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 128
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

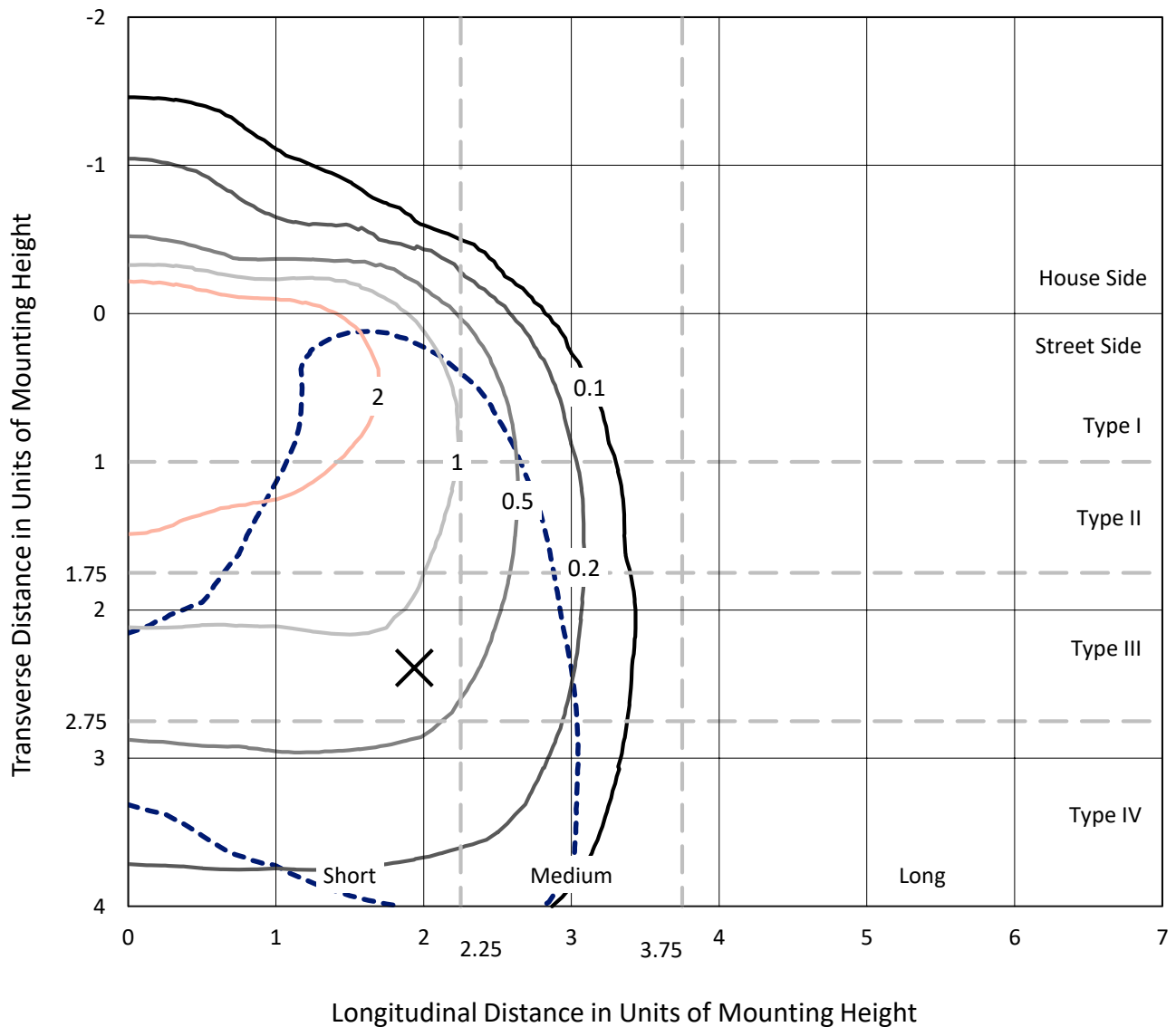


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

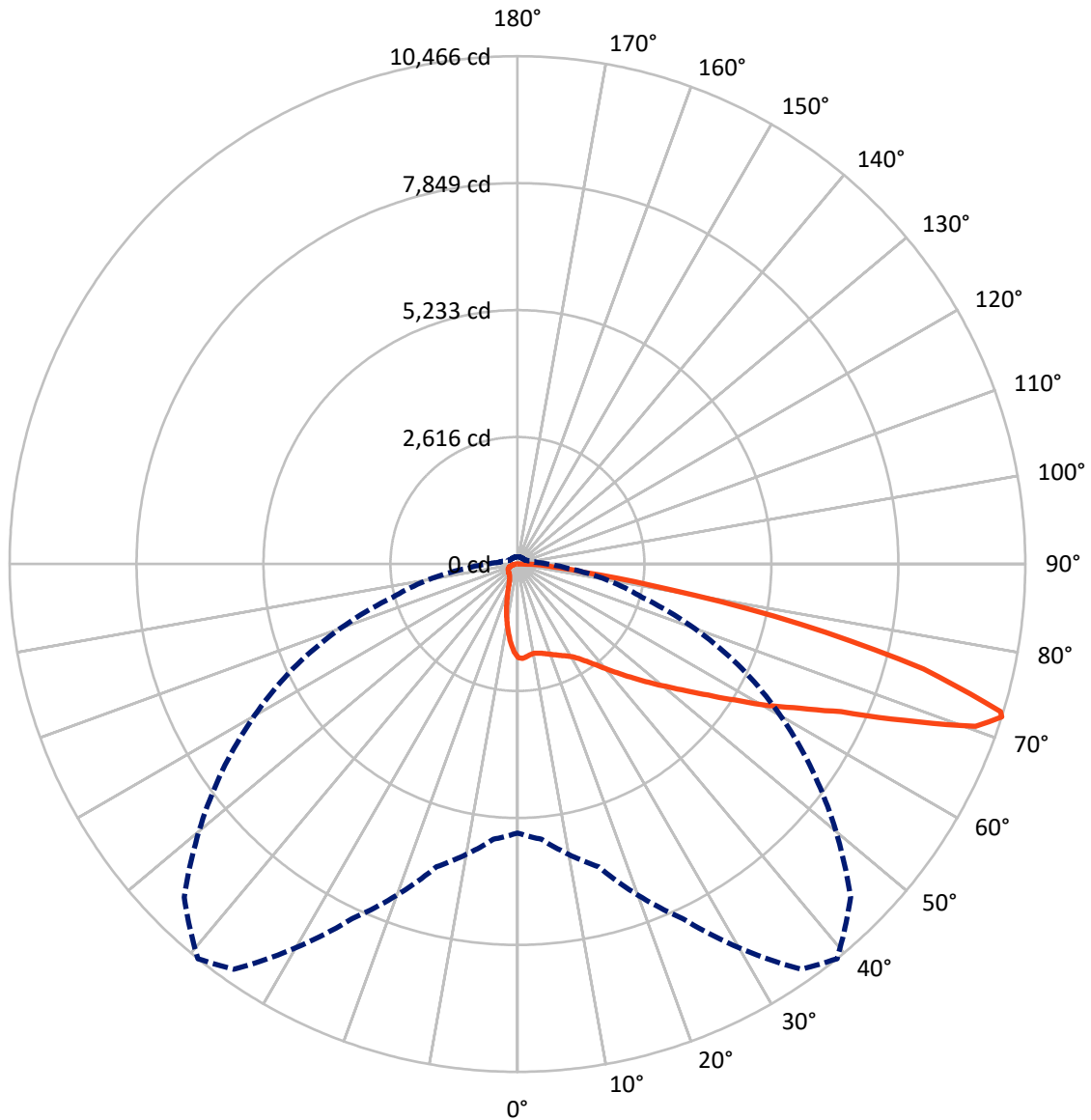


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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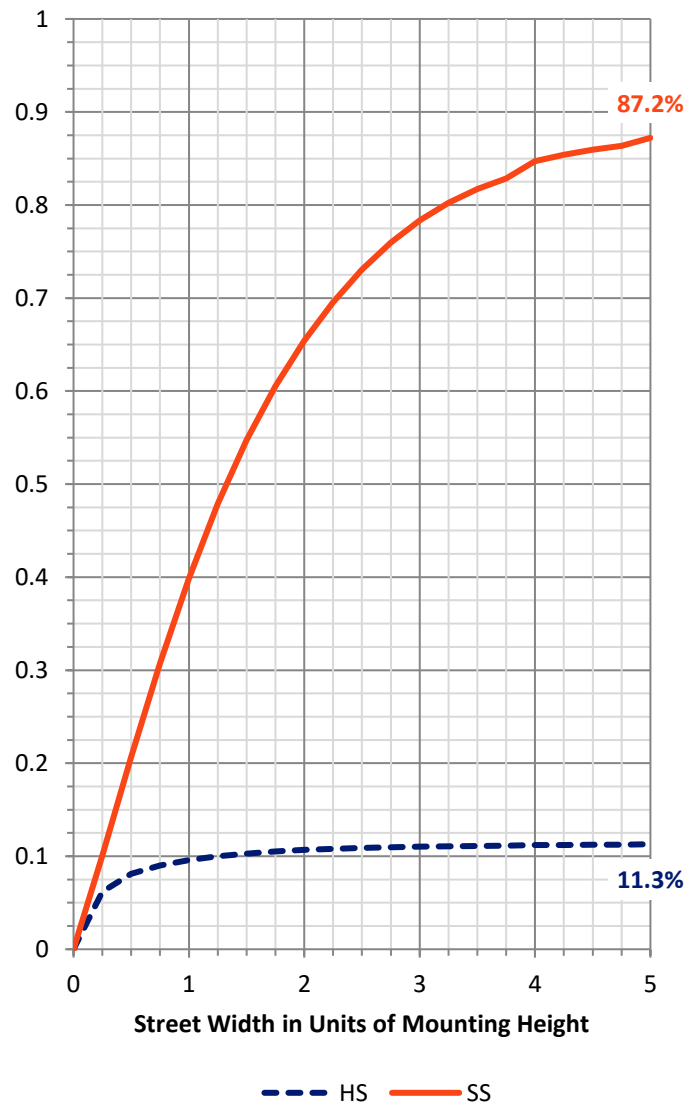
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.0	0.0	1447.0
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	11172.9	0.0	11172.9
	% Fixture	88.5	0.0	88.5
Total	Lumens	12620.0	0.0	12620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	1.3
10°-20°	416.2	3.3
20°-30°	648.6	5.1
30°-40°	998.6	7.9
40°-50°	1627.9	12.9
50°-60°	2529.6	20.0
60°-70°	3385.8	26.8
70°-80°	2434.9	19.3
80°-90°	412.8	3.3
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°	12620.0	100.0
0°-180°	12620.0	100.0

Coefficient of Utilization



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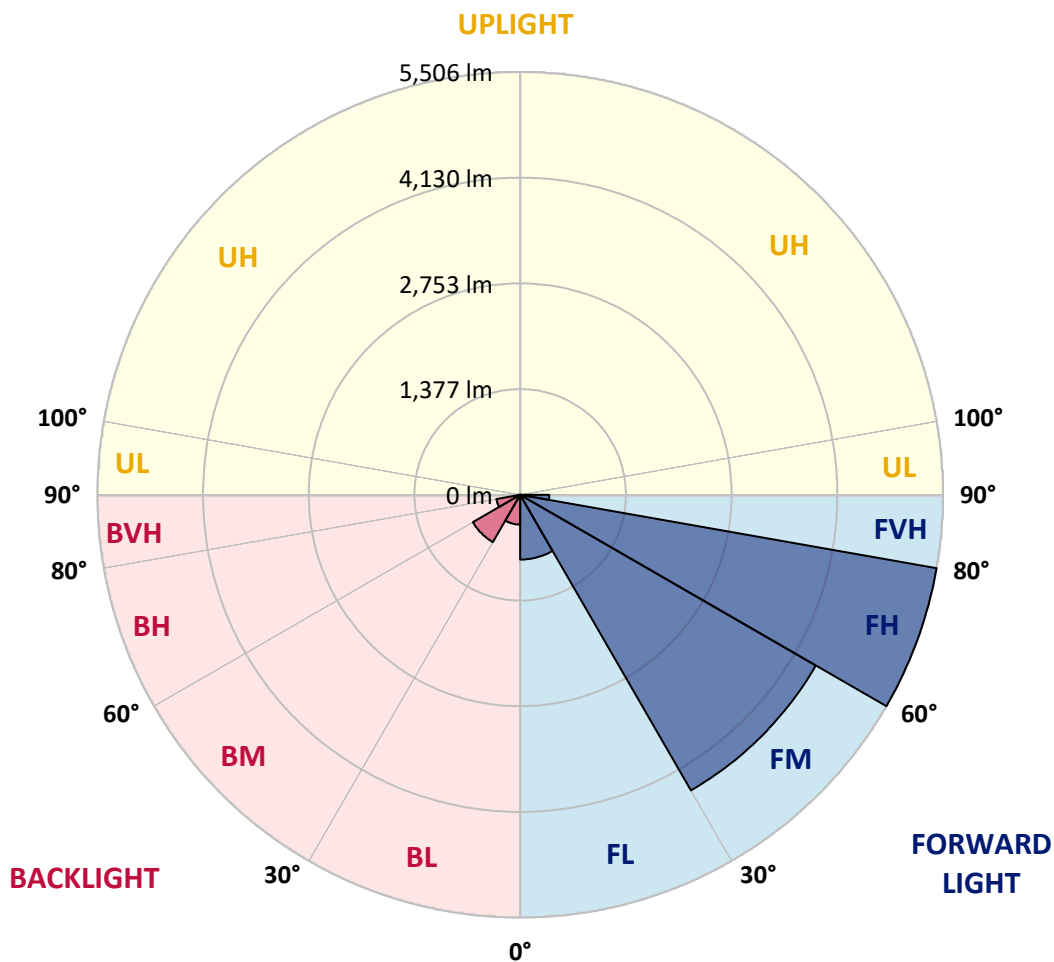
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	843.0	6.7			
FM	(30°-60°)	4445.0	35.2			
FH	(60°-80°)	5506.3	43.6			G3/7500
FVH	(80°-90°)	378.6	3.0			G3/500
BL	(0°-30°)	387.4	3.1	B1/500		
BM	(30°-60°)	711.2	5.6	B1/1000		
BH	(60°-80°)	314.4	2.5	B1/500		G1/500
BVH	(80°-90°)	34.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1968.8	1969.7	1967.1	1959.5	1952.7	1949.3	1943.4	1933.2	1919.7	1910.4	1902.7
5°	1950.2	1952.7	1951.0	1938.3	1926.5	1919.7	1910.4	1896.0	1878.2	1870.5	1852.8
7.5°	1935.8	1937.5	1932.4	1918.0	1895.1	1886.6	1869.7	1851.1	1835.0	1823.9	1802.8
10°	1925.6	1927.3	1923.1	1908.7	1883.2	1873.1	1852.8	1832.4	1811.2	1797.7	1774.0
12.5°	1911.2	1914.6	1914.6	1907.8	1890.9	1884.1	1863.8	1841.7	1822.3	1807.9	1778.2
15°	1908.7	1912.9	1920.5	1919.7	1914.6	1909.5	1893.4	1871.4	1854.4	1837.5	1801.1
17.5°	1929.8	1939.2	1954.4	1959.5	1956.1	1945.1	1926.5	1906.1	1887.5	1871.4	1826.5
20°	1983.2	1988.3	2011.2	2021.3	2004.4	1988.3	1963.7	1937.5	1920.5	1907.8	1850.2
22.5°	2063.7	2070.5	2089.1	2090.0	2054.4	2034.9	2003.5	1971.4	1955.3	1950.2	1882.4
25°	2192.5	2190.8	2195.9	2174.7	2110.3	2087.4	2049.3	2012.0	2001.0	2011.2	1929.8
27.5°	2346.6	2342.4	2326.3	2271.2	2173.8	2144.2	2098.4	2065.4	2065.4	2089.1	1994.2
30°	2524.6	2520.3	2467.8	2375.5	2249.2	2215.3	2167.0	2132.3	2150.1	2195.9	2081.5
32.5°	2712.6	2697.4	2623.7	2500.0	2356.8	2319.5	2272.9	2237.4	2271.2	2349.2	2206.9
35°	2889.7	2881.2	2790.6	2644.0	2495.7	2464.4	2432.2	2388.2	2442.4	2563.5	2383.9
37.5°	3072.7	3065.9	2954.9	2799.0	2665.2	2644.0	2616.9	2586.4	2673.7	2832.9	2623.7
40°	3276.8	3263.3	3123.5	2967.6	2862.6	2852.4	2838.0	2829.5	2970.2	3207.4	2927.0
42.5°	3508.1	3481.8	3301.4	3153.1	3077.8	3086.2	3078.6	3112.5	3327.7	3639.4	3287.8
45°	3772.4	3719.9	3478.5	3350.5	3315.8	3349.7	3365.8	3452.2	3750.4	4138.4	3691.1
47.5°	4019.8	3952.0	3672.5	3564.9	3584.4	3642.8	3688.6	3841.0	4213.8	4631.5	4102.8
50°	4247.7	4171.4	3880.0	3786.8	3881.7	3964.7	4059.6	4274.8	4706.8	5138.9	4480.7
52.5°	4416.3	4361.2	4087.6	4029.1	4223.1	4333.2	4484.9	4756.8	5205.0	5622.6	4817.8
55°	4546.7	4517.1	4290.0	4307.0	4609.4	4767.0	4950.8	5263.4	5731.9	6056.4	5088.9
57.5°	4697.5	4675.5	4521.3	4642.5	5088.9	5287.2	5504.0	5851.4	6233.4	6438.5	5301.6
60°	4856.8	4856.8	4778.9	5046.6	5688.7	5915.8	6131.8	6402.0	6733.3	6782.4	5388.0
62.5°	4977.1	5008.4	5036.4	5476.9	6258.0	6540.1	6777.3	7036.6	7250.9	6951.8	5184.7
65°	5151.6	5218.5	5376.1	5974.2	6962.8	7332.2	7652.4	7870.2	7670.2	6817.1	4521.3
67.5°	5451.5	5550.6	5886.1	6714.6	8042.1	8595.3	8906.2	8530.1	7588.1	5969.1	3463.2
70°	5721.8	5861.5	6435.1	7654.1	9445.0	10019.4	9876.3	8376.8	6608.7	4375.6	2130.6
72°	5542.2	5694.6	6460.5	8063.3	10194.8	10465.9	9711.1	7423.7	5106.7	2670.3	1050.5
72.5°	5424.4	5582.8	6378.3	8053.2	10215.1	10409.1	9481.5	7045.0	4635.7	2336.5	849.7
75°	4531.5	4667.0	5484.5	7137.4	9002.0	8646.2	7399.1	4559.4	2130.6	754.8	437.1
77.5°	2959.1	3062.5	3781.7	4944.9	6305.4	5963.2	4503.5	2134.9	798.9	458.3	328.7
80°	1486.8	1560.5	2023.9	2599.9	3403.1	3131.1	2078.9	1032.7	534.6	331.2	258.4
82.5°	1034.4	1102.2	1393.6	1327.5	1422.4	1376.6	977.6	861.6	399.9	209.2	135.5
85°	867.5	937.8	1153.0	946.3	774.3	705.7	700.6	814.1	264.3	103.4	114.4
87.5°	756.5	863.3	951.4	691.3	531.2	468.5	515.9	746.4	83.9	56.8	34.7
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°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1890.0	1887.5	1874.8	1855.3	1840.9	1831.6	1813.8	1812.9	1814.6	1799.4	1805.3
5°	1836.7	1826.5	1793.4	1748.5	1712.1	1677.4	1639.3	1626.6	1615.5	1592.7	1595.2
7.5°	1780.7	1763.0	1705.3	1631.6	1561.3	1496.9	1433.4	1402.1	1378.3	1348.7	1348.7
10°	1747.7	1719.7	1631.6	1524.1	1412.2	1318.2	1223.3	1166.5	1125.0	1086.9	1084.4
12.5°	1746.0	1703.6	1580.8	1432.6	1279.2	1147.1	1017.4	930.2	868.3	823.4	819.2
15°	1759.6	1700.3	1538.5	1347.0	1153.8	981.9	821.8	710.8	632.0	582.0	576.9
17.5°	1771.4	1696.0	1492.7	1257.2	1031.8	822.6	644.7	529.5	454.9	414.3	410.0
20°	1782.4	1686.7	1434.3	1162.3	897.1	673.5	504.1	410.9	361.7	338.9	336.3
22.5°	1798.5	1678.2	1373.3	1055.6	765.0	548.1	416.0	349.0	322.8	311.8	310.1
25°	1824.8	1679.1	1314.0	946.3	643.8	456.6	360.0	318.5	304.1	296.5	296.5
27.5°	1862.9	1689.2	1255.5	835.3	541.3	393.9	327.0	302.4	293.1	287.2	285.5
30°	1918.8	1707.9	1193.7	730.3	460.0	350.7	307.5	292.3	284.6	279.6	278.7
32.5°	2000.2	1740.9	1128.4	634.5	398.2	320.2	293.1	283.8	277.9	273.6	272.8
35°	2121.3	1799.4	1064.9	553.2	354.1	298.2	281.3	273.6	270.2	268.6	267.7
37.5°	2299.2	1893.4	1004.7	489.7	325.3	283.8	269.4	265.2	263.5	263.5	263.5
40°	2522.9	2017.1	950.5	444.8	309.2	272.8	260.9	257.5	257.5	258.4	258.4
42.5°	2794.8	2172.1	903.9	414.3	299.9	265.2	255.0	253.3	252.5	252.5	253.3
45°	3110.8	2355.1	875.1	390.5	293.1	260.9	250.8	249.9	246.5	244.8	244.8
47.5°	3428.5	2550.8	873.4	377.0	284.6	255.8	246.5	246.5	239.7	236.4	237.2
50°	3725.0	2726.2	892.1	373.6	279.6	248.2	242.3	243.1	233.8	229.6	228.7
52.5°	3963.9	2860.0	914.9	377.8	279.6	241.4	234.7	238.9	228.7	223.7	222.8
55°	4148.6	2953.2	923.4	387.2	283.0	235.5	227.9	234.7	227.0	220.3	220.3
57.5°	4280.7	2982.9	887.0	391.4	288.0	234.7	221.1	233.8	229.6	221.1	221.1
60°	4232.4	2810.9	751.4	375.3	287.2	233.0	216.0	235.5	238.1	228.7	228.7
62.5°	3855.4	2351.7	603.2	338.9	272.8	227.0	210.1	233.8	244.0	240.6	238.9
65°	3138.7	1724.8	467.6	295.7	248.2	214.3	197.4	218.6	230.4	233.8	234.7
67.5°	2211.9	1092.0	363.4	251.6	217.7	195.7	183.0	193.2	197.4	199.1	202.5
70°	1209.8	591.3	288.9	211.8	186.4	177.1	167.7	168.6	166.9	165.2	166.9
72°	607.4	386.3	244.0	183.8	165.2	159.3	155.0	152.5	152.5	149.9	150.8
72.5°	522.7	359.2	235.5	177.1	160.1	155.0	151.6	149.1	148.3	146.6	147.4
75°	348.2	284.6	196.5	148.3	136.4	133.0	134.7	132.2	133.0	131.3	132.2
77.5°	281.3	244.8	166.9	125.4	116.9	111.8	115.2	116.1	117.8	116.1	115.2
80°	235.5	208.4	139.8	103.4	97.4	93.2	94.9	100.8	101.7	96.6	95.7
82.5°	152.5	167.7	110.1	80.5	74.6	72.9	77.1	83.0	84.7	77.9	76.2
85°	127.9	134.7	79.6	55.1	49.1	47.4	55.9	61.8	66.1	59.3	57.6
87.5°	35.6	66.1	39.0	26.3	22.0	22.0	27.1	32.2	38.1	39.0	39.0
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)