

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: P200774

Luminaire Tested: **VERD-M-A04-E-U-T5-7050-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-A04-E-U-T5-7050-AP  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE V OPTICS, GREY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29588 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

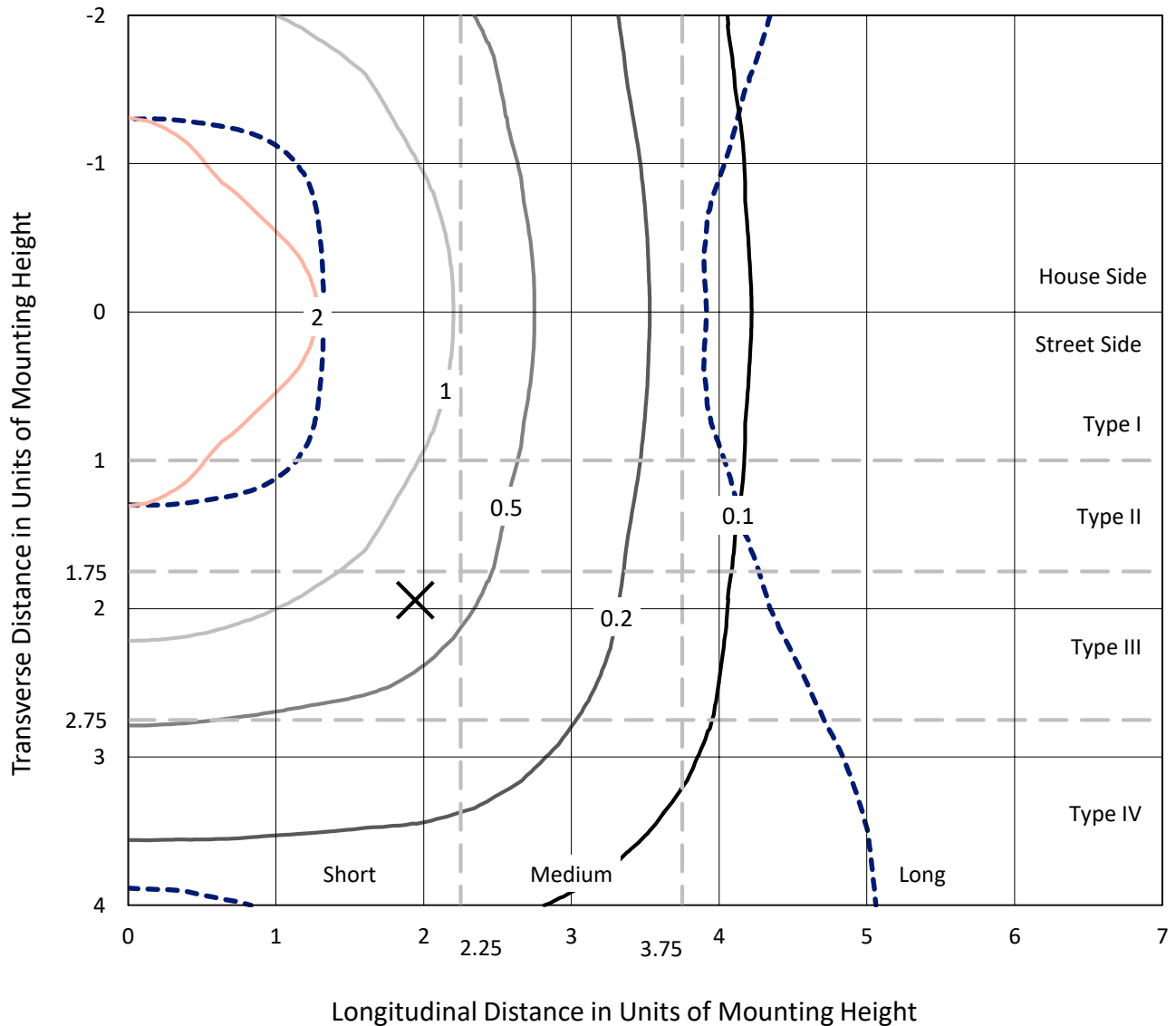
Input Watts (W): 247  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

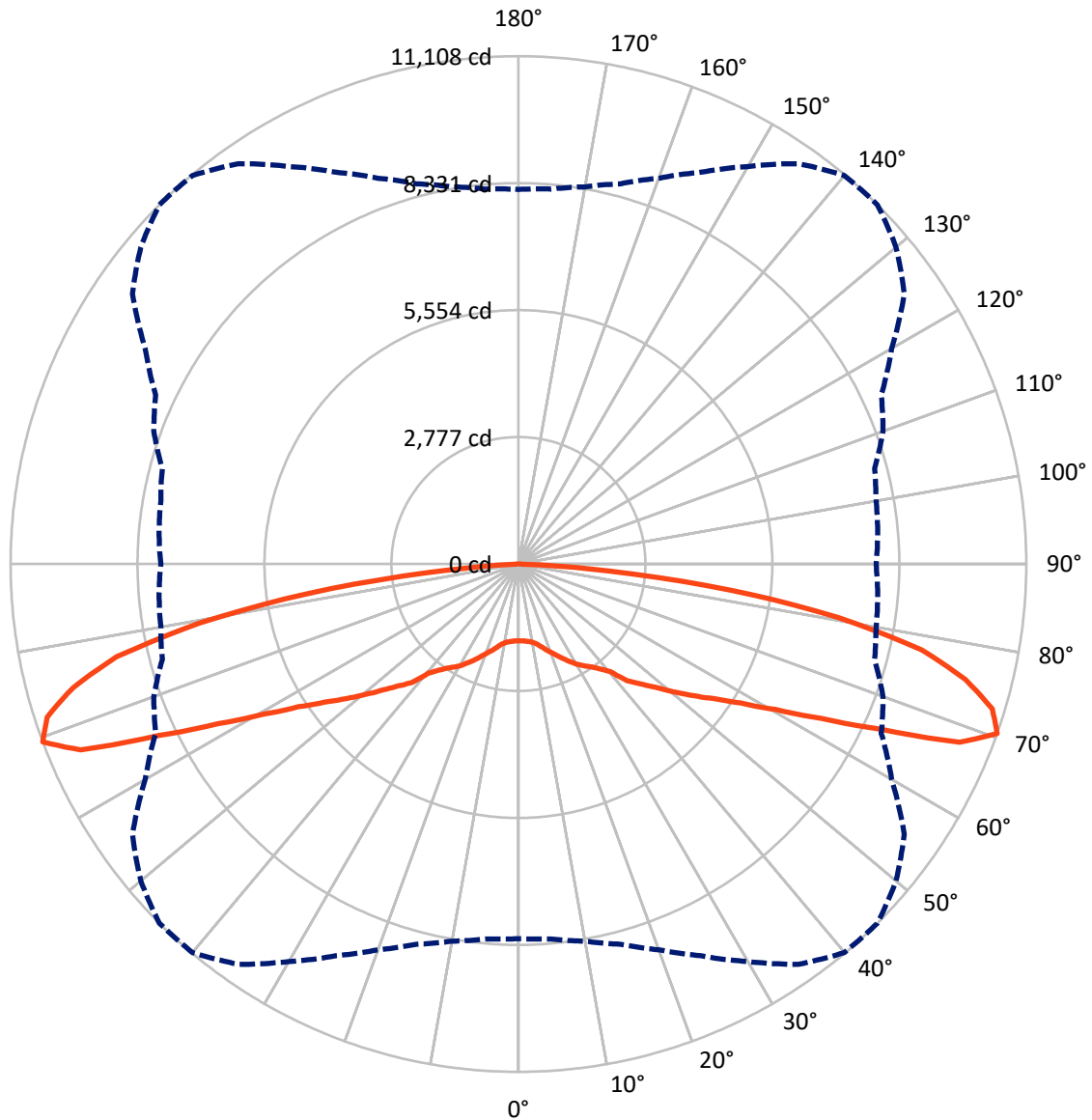


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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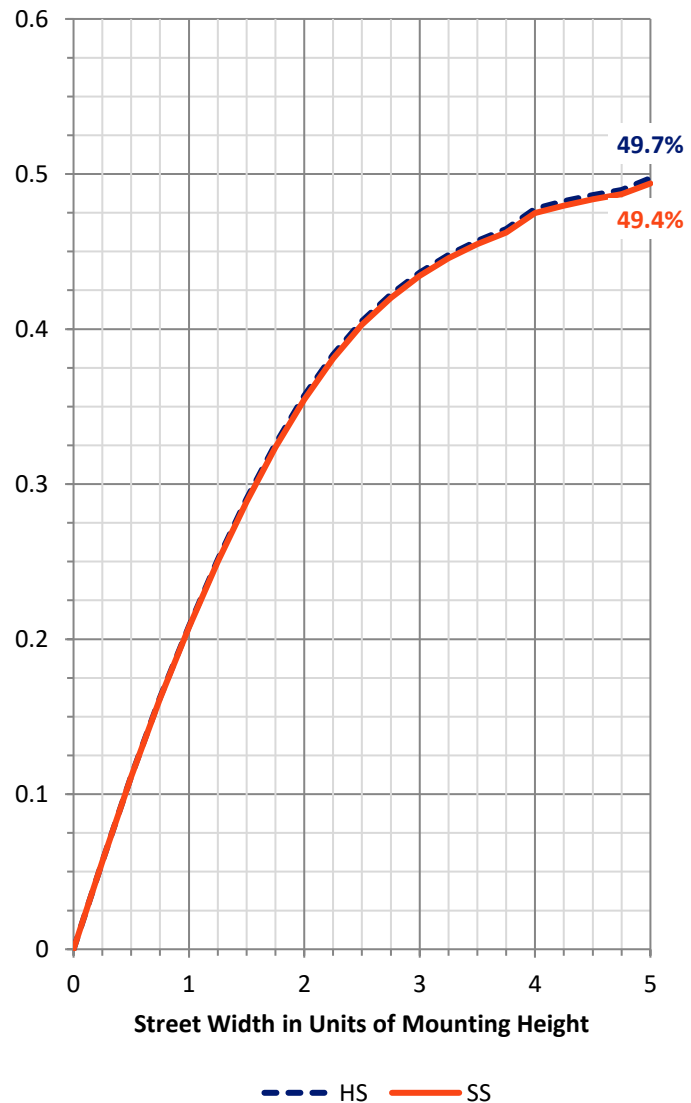
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14794.0	0.0	14794.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14794.0	0.0	14794.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29588.0	0.0	29588.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.8	0.6
10°-20°	536.2	1.8
20°-30°	1040.5	3.5
30°-40°	1739.3	5.9
40°-50°	3028.7	10.2
50°-60°	5163.6	17.5
60°-70°	8506.9	28.8
70°-80°	7784.2	26.3
80°-90°	1624.7	5.5
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°	29588.0	100.0
0°-180°	29588.0	100.0



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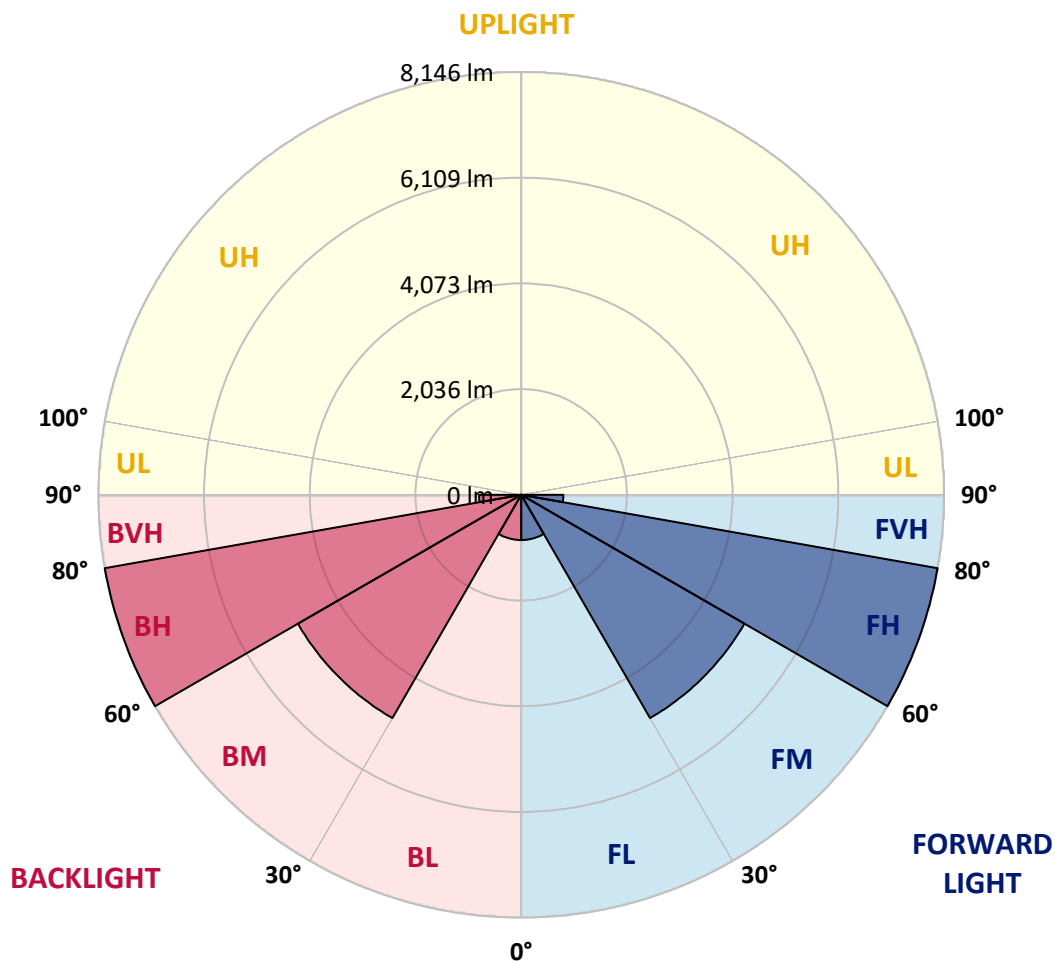
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.3	2.9			
FM	(30°-60°)	4965.8	16.8			
FH	(60°-80°)	8145.5	27.5			G4/12000
FVH	(80°-90°)	812.4	2.7			G5
BL	(0°-30°)	870.3	2.9	B2/1000		
BM	(30°-60°)	4965.8	16.8	B3/5000		
BH	(60°-80°)	8145.5	27.5	B5		G4/12000
BVH	(80°-90°)	812.4	2.7			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3
2.5°	1701.5	1701.5	1701.5	1697.6	1697.6	1688.0	1688.0	1680.3	1674.6	1680.3	1676.5
5°	1720.6	1716.8	1714.9	1711.0	1711.0	1705.3	1701.5	1693.8	1691.9	1695.7	1691.9
7.5°	1743.7	1739.8	1734.1	1730.2	1734.1	1728.3	1724.5	1714.9	1714.9	1713.0	1713.0
10°	1776.3	1770.5	1768.6	1764.8	1768.6	1757.1	1757.1	1749.4	1745.6	1741.7	1743.7
12.5°	1820.4	1816.5	1814.6	1810.8	1810.8	1807.0	1810.8	1799.3	1797.4	1797.4	1799.3
15°	1885.6	1879.8	1877.9	1874.1	1874.1	1877.9	1879.8	1874.1	1879.8	1879.8	1874.1
17.5°	1964.2	1956.6	1956.6	1952.7	1956.6	1960.4	1966.2	1966.2	1971.9	1973.8	1966.2
20°	2046.7	2039.1	2037.1	2035.2	2042.9	2046.7	2058.2	2067.8	2075.5	2069.7	2054.4
22.5°	2135.0	2127.3	2123.5	2117.7	2125.4	2135.0	2161.8	2181.0	2188.7	2181.0	2161.8
25°	2229.0	2225.1	2223.2	2213.6	2209.8	2229.0	2263.5	2288.4	2303.8	2298.0	2282.7
27.5°	2330.6	2324.9	2322.9	2311.4	2309.5	2313.4	2349.8	2399.7	2415.0	2420.8	2403.5
30°	2432.3	2426.5	2424.6	2418.9	2415.0	2415.0	2434.2	2486.0	2534.0	2549.3	2510.9
32.5°	2564.6	2557.0	2555.1	2543.5	2539.7	2541.6	2553.1	2578.1	2629.9	2656.7	2608.8
35°	2727.7	2720.0	2706.6	2700.8	2691.2	2693.2	2700.8	2723.9	2748.8	2764.1	2739.2
37.5°	2900.3	2892.7	2885.0	2877.3	2863.9	2863.9	2867.7	2885.0	2908.0	2911.8	2892.7
40°	3149.7	3151.6	3120.9	3111.3	3084.5	3078.7	3080.6	3088.3	3101.7	3092.2	3096.0
42.5°	3571.7	3541.0	3512.2	3502.6	3475.8	3468.1	3464.3	3472.0	3479.6	3489.2	3500.7
45°	3976.4	3961.1	3922.7	3884.4	3832.6	3792.3	3742.4	3709.8	3707.9	3734.7	3738.6
47.5°	4452.2	4427.2	4369.7	4316.0	4235.4	4160.6	4076.2	4022.5	4007.1	4030.2	4032.1
50°	4993.1	4964.3	4897.2	4828.1	4724.5	4630.6	4500.1	4415.7	4383.1	4390.8	4386.9
52.5°	5547.5	5518.7	5436.2	5376.7	5269.3	5142.7	4985.4	4856.9	4791.7	4778.3	4759.1
55°	6176.6	6145.9	6059.6	5994.4	5862.0	5727.8	5528.3	5363.3	5257.8	5200.3	5186.8
57.5°	6830.7	6794.3	6727.2	6621.7	6523.8	6349.3	6169.0	5969.5	5819.8	5735.4	5714.3
60°	7502.1	7471.4	7402.4	7346.7	7247.0	7120.4	6913.2	6713.7	6550.7	6466.3	6416.4
62.5°	8229.1	8209.9	8158.1	8121.7	8043.0	7901.1	7799.4	7640.2	7532.8	7440.7	7377.4
65°	9027.1	9021.3	9019.4	9032.8	9015.6	8946.5	8898.6	8791.1	8754.7	8710.6	8616.6
67.5°	8900.5	8933.1	9032.8	9163.3	9345.5	9548.8	9811.6	10026.5	10249.0	10404.4	10202.9
70°	8192.7	8232.9	8376.8	8608.9	8979.1	9454.8	10039.9	10688.3	11093.0	11108.3	10782.2
72.5°	7306.5	7342.9	7461.8	7795.6	8215.7	8935.0	9903.7	10630.7	10891.6	10839.8	10502.2
75°	5919.6	5996.3	6320.5	6652.3	7229.7	8008.5	9140.3	9911.4	10252.8	10101.3	9677.4
77.5°	4252.7	4250.7	4479.0	4972.0	5522.5	6454.8	7634.5	8641.5	9067.4	9015.6	8683.7
80°	2303.8	2386.3	2633.7	3040.4	3610.1	4406.1	5436.2	6391.5	6915.1	7085.9	6913.2
82.5°	1028.2	1072.3	1243.0	1574.8	1929.7	2512.9	3239.9	3964.9	4465.6	4674.7	4517.4
85°	324.2	335.7	397.1	558.2	732.8	1039.7	1452.1	1910.5	2154.1	1991.1	1713.0
87.5°	78.6	82.5	101.7	159.2	234.0	326.1	295.4	249.4	178.4	90.2	55.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3
2.5°	1676.5	1674.6	1676.5	1678.4	1678.4	1676.5	1676.5	1680.3
5°	1693.8	1691.9	1693.8	1699.5	1697.6	1699.5	1697.6	1703.4
7.5°	1711.0	1709.1	1707.2	1713.0	1713.0	1714.9	1713.0	1716.8
10°	1741.7	1741.7	1739.8	1741.7	1737.9	1737.9	1734.1	1732.1
12.5°	1793.5	1791.6	1793.5	1787.8	1783.9	1782.0	1778.2	1772.4
15°	1870.3	1864.5	1866.4	1851.1	1849.2	1847.2	1843.4	1839.6
17.5°	1954.7	1941.2	1939.3	1922.0	1924.0	1918.2	1912.5	1912.5
20°	2042.9	2027.5	2018.0	2002.6	2000.7	1998.8	1989.2	1993.0
22.5°	2144.6	2121.5	2108.1	2094.7	2087.0	2090.8	2083.2	2087.0
25°	2259.6	2225.1	2196.3	2194.4	2192.5	2196.3	2194.4	2194.4
27.5°	2365.1	2313.4	2294.2	2303.8	2303.8	2307.6	2315.3	2313.4
30°	2447.6	2415.0	2407.4	2426.5	2426.5	2430.4	2438.0	2440.0
32.5°	2566.6	2549.3	2551.2	2576.2	2578.1	2587.7	2597.3	2604.9
35°	2718.1	2712.3	2727.7	2754.5	2762.2	2773.7	2791.0	2802.5
37.5°	2886.9	2900.3	2917.6	2948.3	2971.3	2986.6	3007.7	3019.3
40°	3128.6	3161.2	3190.0	3226.4	3245.6	3272.5	3297.4	3314.7
42.5°	3539.1	3560.2	3581.3	3612.0	3644.6	3667.6	3683.0	3694.5
45°	3788.5	3826.8	3880.5	3941.9	4003.3	4055.1	4095.4	4101.1
47.5°	4085.8	4145.2	4220.1	4316.0	4398.4	4448.3	4479.0	4496.3
50°	4442.6	4515.5	4621.0	4734.1	4828.1	4897.2	4935.5	4962.4
52.5°	4828.1	4920.2	5050.6	5190.7	5305.8	5374.8	5438.1	5468.8
55°	5265.5	5392.1	5553.2	5722.0	5848.6	5938.8	5984.8	6023.2
57.5°	5816.0	5975.2	6165.1	6332.0	6466.3	6564.1	6629.3	6661.9
60°	6544.9	6704.1	6872.9	7036.0	7187.5	7254.7	7312.2	7337.1
62.5°	7438.8	7559.7	7695.8	7812.9	7956.7	8054.6	8117.9	8137.0
65°	8610.8	8664.5	8814.2	8944.6	8944.6	8923.5	8913.9	8898.6
67.5°	9782.9	9422.2	9140.3	9002.1	8854.4	8743.2	8679.9	8641.5
70°	10304.6	9426.1	8756.6	8486.1	8064.1	7943.3	7889.6	7822.5
72.5°	9874.9	8860.2	7914.5	7682.4	7116.5	7181.8	6917.1	6805.8
75°	8967.6	7972.1	7126.1	6598.6	6320.5	5971.4	5829.4	5848.6
77.5°	8029.6	6922.8	6002.1	5468.8	5137.0	4793.6	4713.0	4715.0
80°	6218.8	5219.4	4438.7	3928.5	3531.4	3243.7	3009.7	2938.7
82.5°	3844.1	3172.7	2631.8	2276.9	1952.7	1699.5	1461.7	1431.0
85°	1310.1	1041.6	776.9	627.3	498.7	402.8	328.0	316.5
87.5°	34.5	34.5	34.5	34.5	34.5	36.4	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)