

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: P509824

Luminaire Tested: **VERD-M-CA3-150-722-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-722-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16220 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

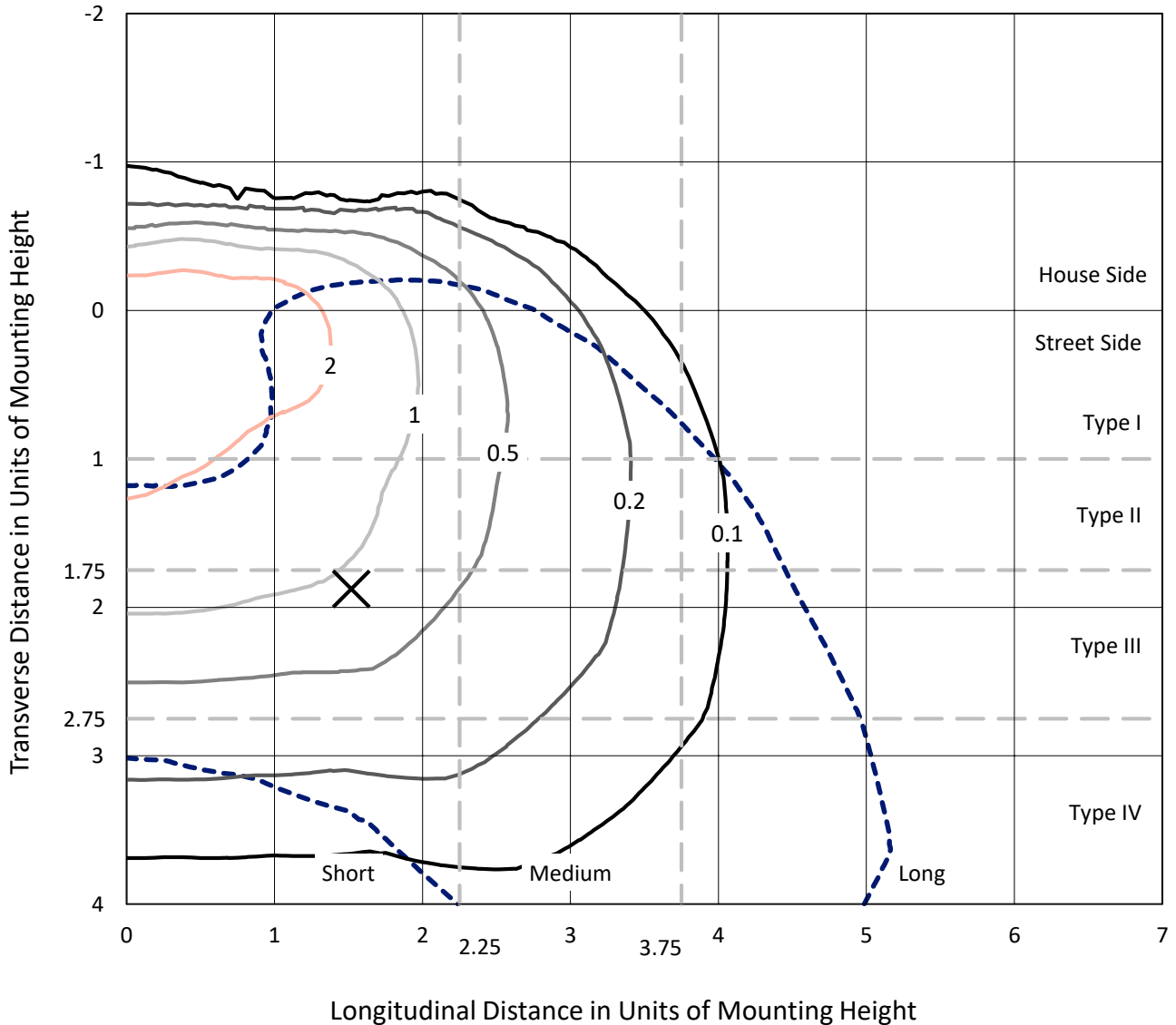
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

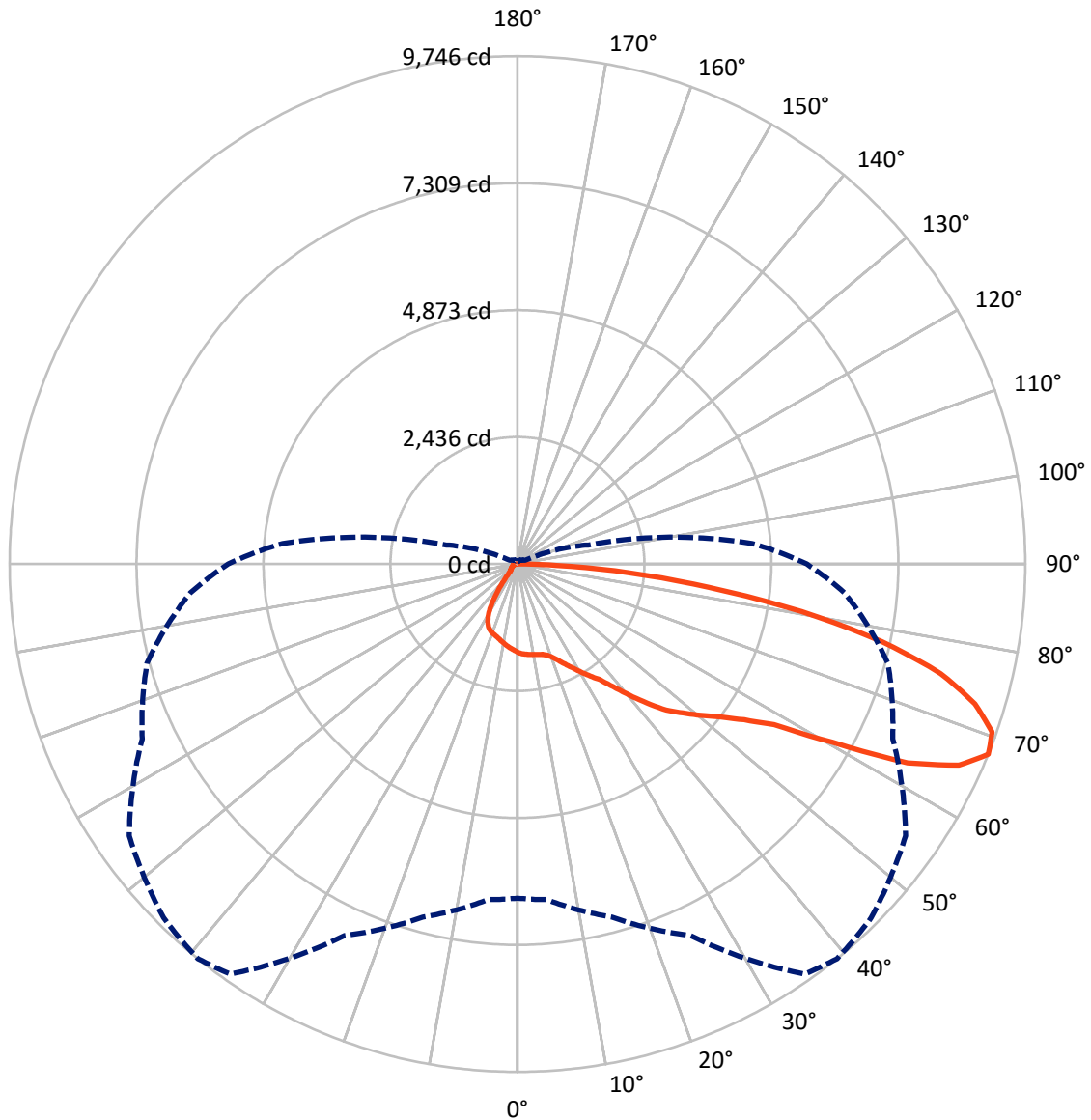
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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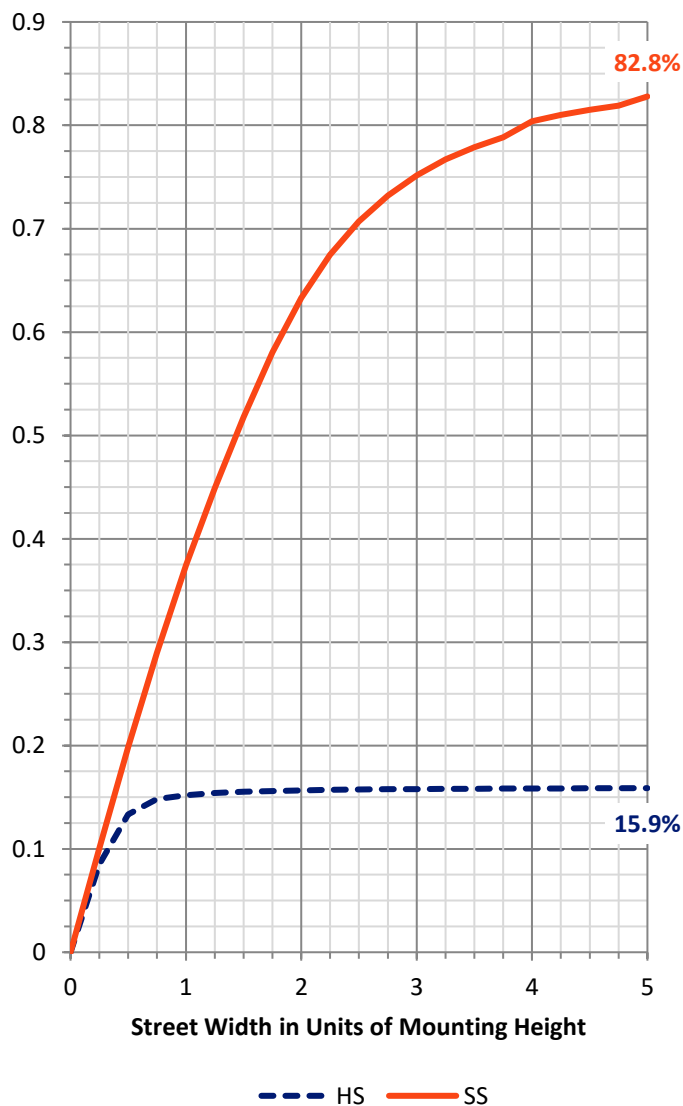
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2604.5	0.0	2604.5
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	13615.5	0.0	13615.5
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	16220.0	0.0	16220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.3	1.0
10°-20°	477.2	2.9
20°-30°	845.5	5.2
30°-40°	1354.2	8.3
40°-50°	2172.4	13.4
50°-60°	3175.4	19.6
60°-70°	4231.4	26.1
70°-80°	3175.3	19.6
80°-90°	628.2	3.9
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°	16220.0	100.0
0°-180°	16220.0	100.0

**Coefficient of Utilization**



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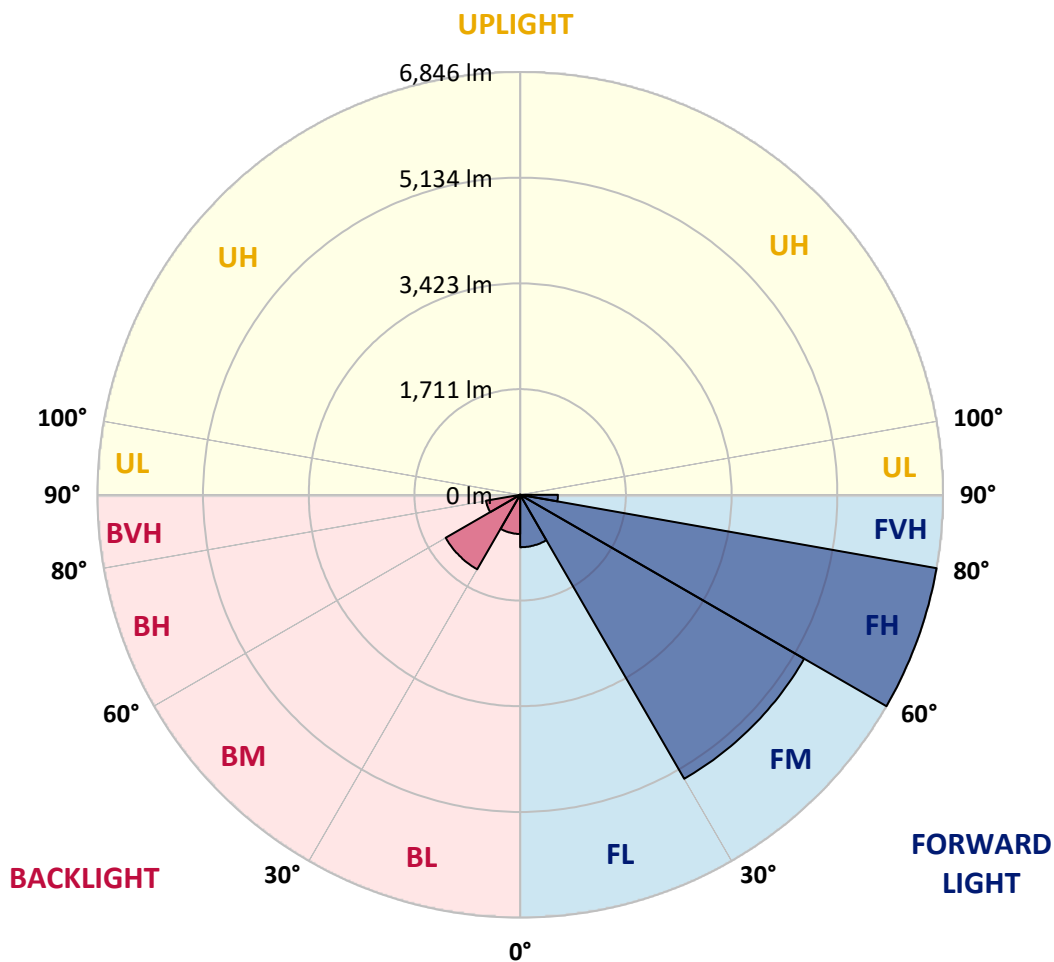
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.8	5.2			
FM (30°-60°)	5308.9	32.7			
FH (60°-80°)	6845.9	42.2			G3/7500
FVH (80°-90°)	611.8	3.8			G4/750
BL (0°-30°)	634.2	3.9	B2/1000		
BM (30°-60°)	1393.0	8.6	B2/2500		
BH (60°-80°)	560.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	16.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1700.0	1722.9	1722.9	1716.3	1720.4	1723.7	1699.2	1705.7	1703.3	1702.5	1707.4
5°	1713.1	1738.3	1736.7	1728.6	1731.8	1738.3	1715.5	1725.3	1722.0	1713.9	1715.5
7.5°	1713.1	1734.3	1739.2	1730.2	1745.7	1753.8	1729.4	1738.3	1742.4	1736.7	1731.0
10°	1706.6	1725.3	1731.8	1730.2	1750.6	1763.6	1740.0	1765.2	1768.5	1768.5	1759.5
12.5°	1704.1	1725.3	1734.3	1741.6	1765.2	1779.1	1765.2	1789.7	1806.0	1805.2	1799.5
15°	1705.7	1729.4	1743.2	1755.5	1780.7	1797.8	1792.1	1829.6	1849.2	1854.9	1854.9
17.5°	1746.5	1775.0	1781.5	1794.6	1811.7	1837.8	1830.4	1878.5	1909.5	1919.3	1933.1
20°	1860.6	1882.6	1890.7	1884.2	1891.6	1907.9	1893.2	1939.6	1986.1	2012.2	2035.0
22.5°	2006.5	2022.8	2015.4	2008.9	2004.8	2008.9	1991.0	2022.0	2074.1	2111.6	2150.7
25°	2117.3	2153.2	2147.5	2129.5	2123.8	2128.7	2105.9	2144.2	2192.3	2231.4	2290.1
27.5°	2251.8	2273.8	2258.3	2251.8	2255.8	2255.0	2241.2	2277.9	2321.9	2370.8	2457.1
30°	2397.7	2416.4	2400.9	2394.4	2401.7	2406.6	2391.1	2455.5	2502.0	2554.9	2666.6
32.5°	2637.3	2682.1	2639.7	2554.9	2556.6	2563.9	2565.5	2651.9	2736.7	2778.2	2925.8
35°	2978.7	3014.6	2958.4	2855.7	2727.7	2722.8	2735.9	2864.6	3035.0	3224.0	3396.8
37.5°	3297.4	3349.5	3299.0	3179.2	3023.6	2986.1	2918.4	3071.6	3339.8	3746.4	3961.6
40°	3679.6	3718.7	3618.5	3514.2	3358.5	3305.5	3197.1	3294.9	3662.5	4291.7	4440.0
42.5°	3986.9	4010.5	3927.4	3818.2	3682.9	3642.9	3531.3	3540.2	4007.2	4769.2	4864.6
45°	4271.3	4296.5	4228.1	4135.2	4049.6	4001.5	3920.0	3964.0	4411.5	5272.9	5215.0
47.5°	4487.3	4512.5	4457.9	4391.9	4303.1	4270.5	4272.1	4430.2	4906.1	5675.5	5529.6
50°	4840.9	4831.2	4688.5	4616.8	4547.6	4564.7	4582.6	4807.5	5404.9	6021.0	5820.5
52.5°	5457.9	5409.8	5115.6	4928.2	4842.6	4871.9	4901.3	5200.4	5971.3	6336.4	6043.9
55°	6155.5	6106.6	5856.4	5455.4	5228.9	5276.1	5250.9	5589.1	6447.3	6639.6	6228.0
57.5°	6673.8	6754.5	6659.2	6440.7	5873.5	5811.6	5755.4	5981.9	6831.9	6942.8	6404.9
60°	7124.5	7237.0	7407.3	7347.8	7106.6	6945.2	6429.3	6440.7	7201.9	7153.0	6475.0
62.5°	7564.6	7630.6	7922.4	7986.8	8285.8	8401.6	7877.5	7034.0	7559.7	7298.9	6522.2
65°	7124.5	7209.3	7717.0	8185.6	9152.2	9307.0	9122.8	8108.2	7822.9	7385.3	6467.6
67.5°	6413.0	6464.4	7012.9	7865.3	9605.3	9745.5	9602.0	9094.3	7946.0	7359.2	6298.1
70°	5483.1	5563.8	6102.5	7245.1	9589.0	9664.0	9539.3	9213.3	7899.5	7209.3	5870.3
72.5°	4534.5	4580.2	5036.5	6176.7	9120.4	9183.1	9117.1	9030.7	7743.1	6791.2	5048.0
75°	3408.2	3418.0	3885.8	4877.6	8064.2	8391.8	8472.5	8716.2	7144.1	5821.4	3733.4
77.5°	2285.2	2382.2	2831.2	3727.7	6620.0	7144.1	7526.3	7704.0	5968.9	4344.6	1985.3
80°	1226.5	1251.0	1735.1	2645.4	5030.8	5532.0	5894.7	5898.0	4174.3	2152.3	443.3
82.5°	568.0	544.4	873.7	1674.0	3484.8	3708.1	3951.0	3309.6	1671.5	367.6	113.3
85°	251.8	265.7	395.3	815.8	1933.9	2158.1	2127.1	1465.3	293.4	99.4	69.3
87.5°	93.7	98.6	153.2	329.2	690.3	753.0	677.2	282.0	38.3	35.0	21.2
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°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1701.7	1701.7	1700.0	1678.0	1673.1	1662.5	1653.6	1660.1	1652.8	1657.7	1652.8
5°	1709.0	1704.9	1695.1	1669.1	1656.8	1633.2	1615.3	1619.4	1609.6	1609.6	1608.8
7.5°	1726.1	1718.0	1700.9	1659.3	1636.5	1602.2	1574.5	1565.6	1555.8	1544.4	1542.7
10°	1753.8	1742.4	1719.6	1662.5	1618.5	1572.9	1524.8	1506.1	1481.6	1463.7	1460.4
12.5°	1792.1	1775.0	1744.0	1674.8	1616.9	1544.4	1480.0	1443.3	1414.0	1387.9	1382.2
15°	1847.5	1830.4	1793.8	1699.2	1617.7	1517.5	1432.7	1371.6	1321.1	1296.6	1297.4
17.5°	1928.2	1916.0	1859.8	1750.6	1633.2	1503.6	1393.6	1296.6	1218.4	1177.6	1171.9
20°	2031.7	2023.6	1955.1	1818.2	1669.1	1506.1	1351.2	1216.8	1101.8	1013.0	993.5
22.5°	2152.3	2140.1	2056.2	1876.9	1696.8	1499.6	1304.8	1128.7	956.0	840.2	817.4
25°	2286.8	2280.3	2149.1	1928.2	1700.0	1471.8	1237.9	1014.6	797.9	674.0	654.4
27.5°	2458.8	2420.5	2233.0	1955.9	1692.7	1417.2	1142.6	858.2	634.1	548.5	527.3
30°	2647.0	2569.6	2314.5	1977.1	1656.8	1330.0	1006.5	677.2	471.9	396.1	385.5
32.5°	2855.7	2739.9	2391.1	1975.5	1593.3	1195.6	829.6	470.2	318.7	287.7	277.1
35°	3233.0	3036.6	2483.2	1948.6	1486.5	1035.8	586.0	306.4	236.3	217.6	215.2
37.5°	3757.0	3423.7	2607.1	1897.3	1348.8	850.0	382.2	209.4	202.1	202.9	202.1
40°	4186.5	3855.6	2779.1	1819.8	1175.2	607.2	229.0	186.6	190.7	193.1	194.0
42.5°	4607.1	4207.7	2991.8	1722.9	993.5	394.4	185.8	178.5	175.2	179.3	180.9
45°	4945.3	4515.0	3192.3	1609.6	780.7	233.1	180.1	165.4	159.7	161.4	163.8
47.5°	5215.8	4759.5	3312.9	1477.5	570.5	176.0	175.2	154.0	145.9	144.3	143.4
50°	5470.9	4968.9	3390.3	1317.8	363.5	169.5	162.2	141.0	131.2	129.6	129.6
52.5°	5644.5	5105.8	3416.4	1128.7	216.8	165.4	153.2	130.4	117.4	119.8	121.4
55°	5814.0	5244.4	3362.6	882.6	166.3	154.8	143.4	117.4	106.8	116.5	119.8
57.5°	5894.7	5264.7	3241.2	613.7	161.4	140.2	129.6	105.1	97.0	102.7	102.7
60°	5959.9	5250.9	3071.6	388.7	157.3	130.4	118.2	95.4	85.6	82.3	79.9
62.5°	5916.7	5195.5	2731.0	253.5	145.9	119.0	107.6	88.0	74.2	65.2	64.4
65°	5824.6	4999.9	2180.1	199.7	135.3	113.3	97.8	79.1	65.2	54.6	53.8
67.5°	5553.2	4523.9	1410.7	165.4	129.6	109.2	90.5	73.3	57.9	47.3	46.5
70°	4902.9	3654.3	432.8	148.3	134.5	105.1	88.8	66.8	51.3	41.6	39.9
72.5°	3876.8	2441.7	160.6	123.1	115.7	101.1	86.4	60.3	44.0	35.0	33.4
75°	2497.1	797.9	136.1	95.4	98.6	96.2	79.9	55.4	37.5	28.5	27.7
77.5°	707.4	167.1	123.9	70.1	87.2	92.9	70.1	46.5	33.4	24.4	23.6
80°	148.3	119.0	113.3	49.7	65.2	60.3	47.3	35.9	31.8	21.2	21.2
82.5°	97.0	94.5	97.0	34.2	43.2	44.0	37.5	31.0	27.7	19.6	19.6
85°	68.5	86.4	46.5	24.4	20.4	18.7	22.0	26.9	24.4	16.3	16.3
87.5°	23.6	13.9	9.8	9.8	9.0	9.0	10.6	12.2	13.0	13.0	12.2
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)