

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: P509232

Luminaire Tested: **VERD-CA2-130-750-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-130-750-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1180mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

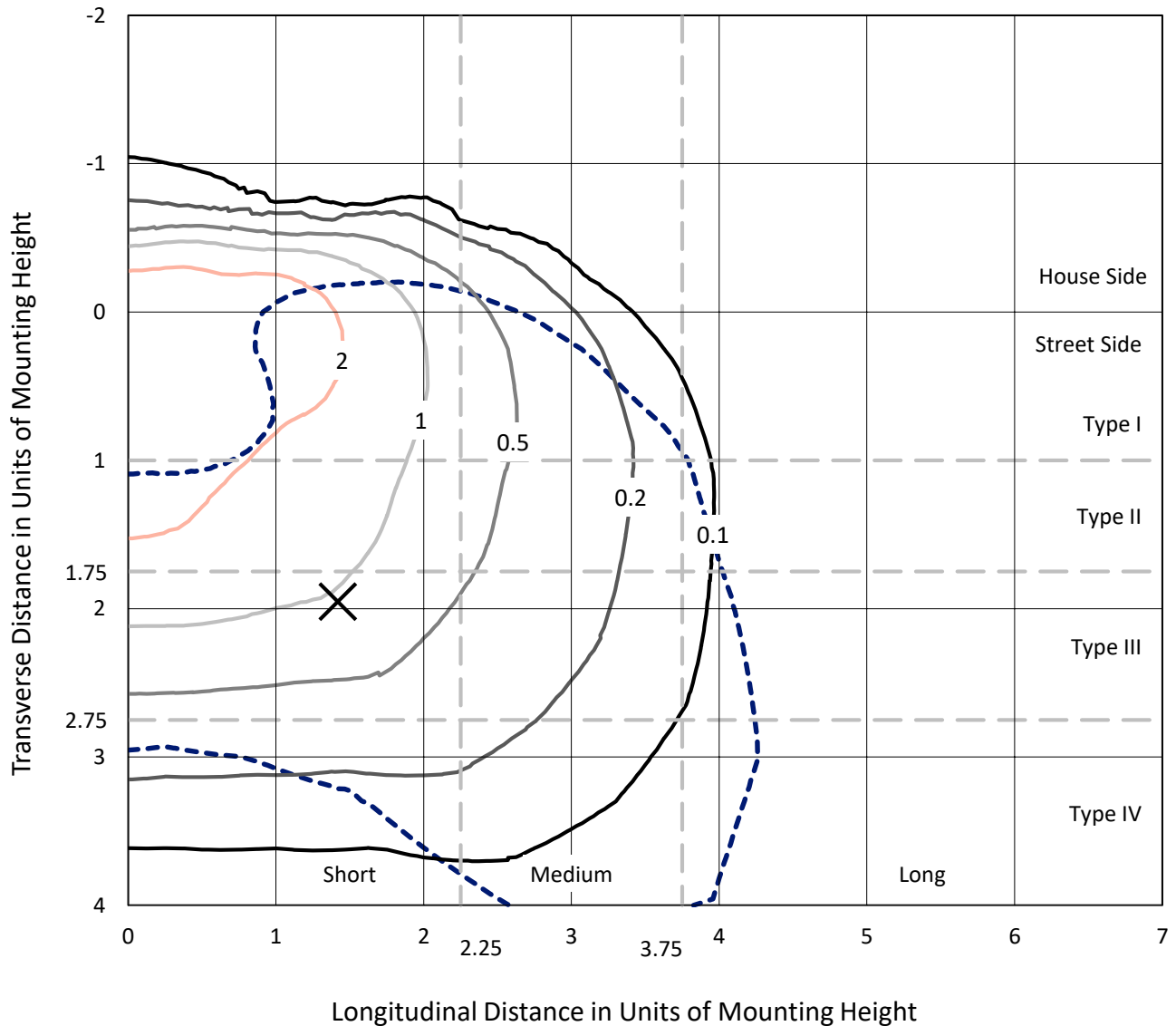
Lumens per Lamp: N/A  
Luminaire Lumens: 16843 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): 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

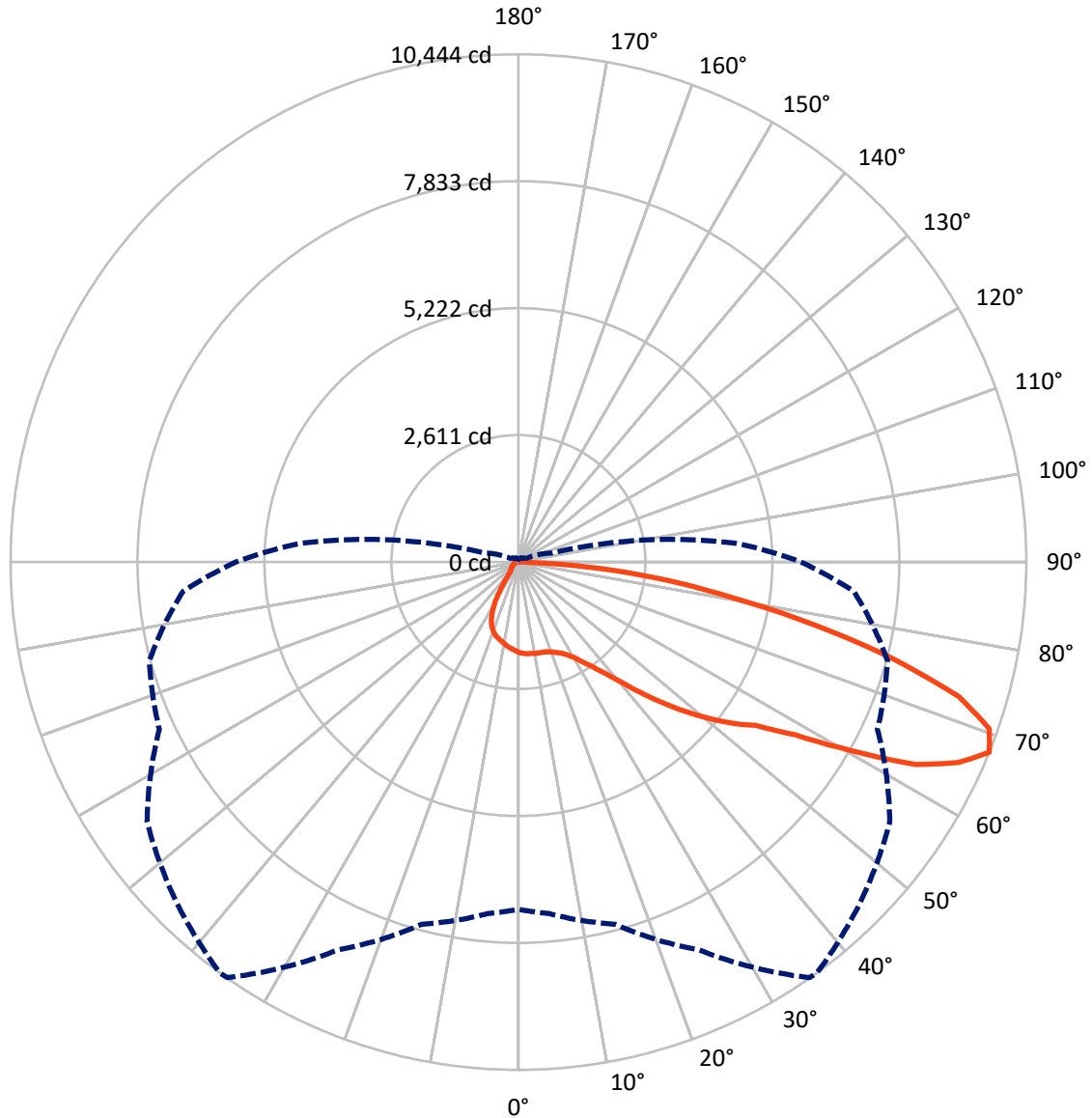
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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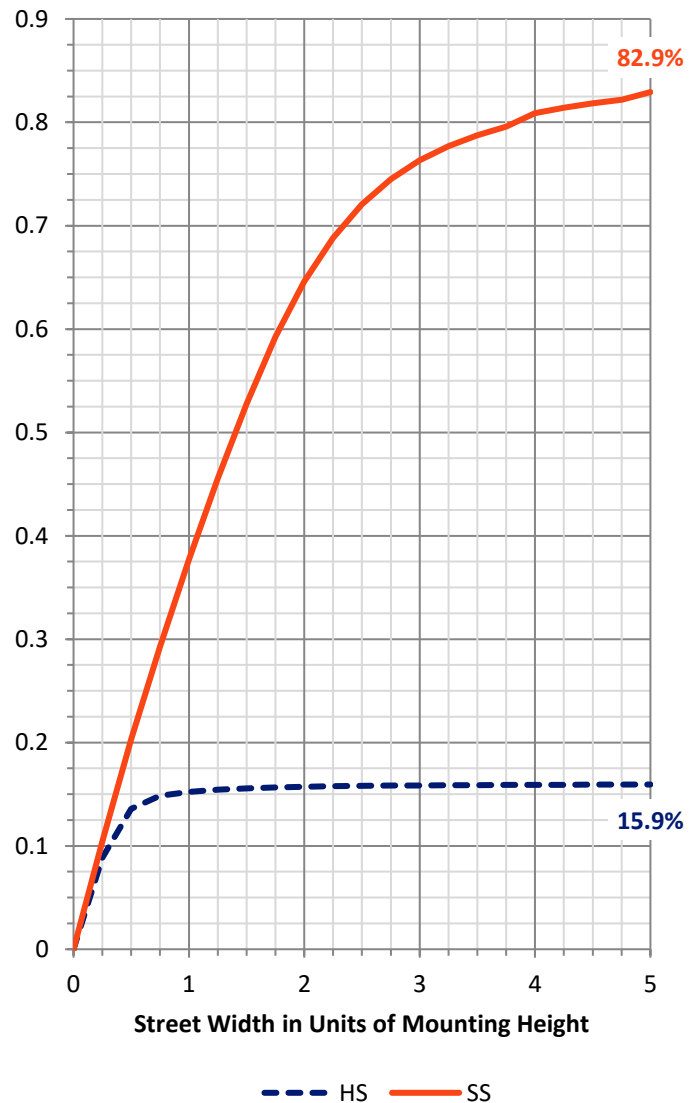
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2716.2	0.0	2716.2
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	14126.8	0.0	14126.8
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	16843.0	0.0	16843.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.6	1.0
10°-20°	520.5	3.1
20°-30°	860.7	5.1
30°-40°	1365.3	8.1
40°-50°	2356.6	14.0
50°-60°	3493.0	20.7
60°-70°	4516.0	26.8
70°-80°	3048.5	18.1
80°-90°	506.7	3.0
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°	16843.0	100.0
0°-180°	16843.0	100.0



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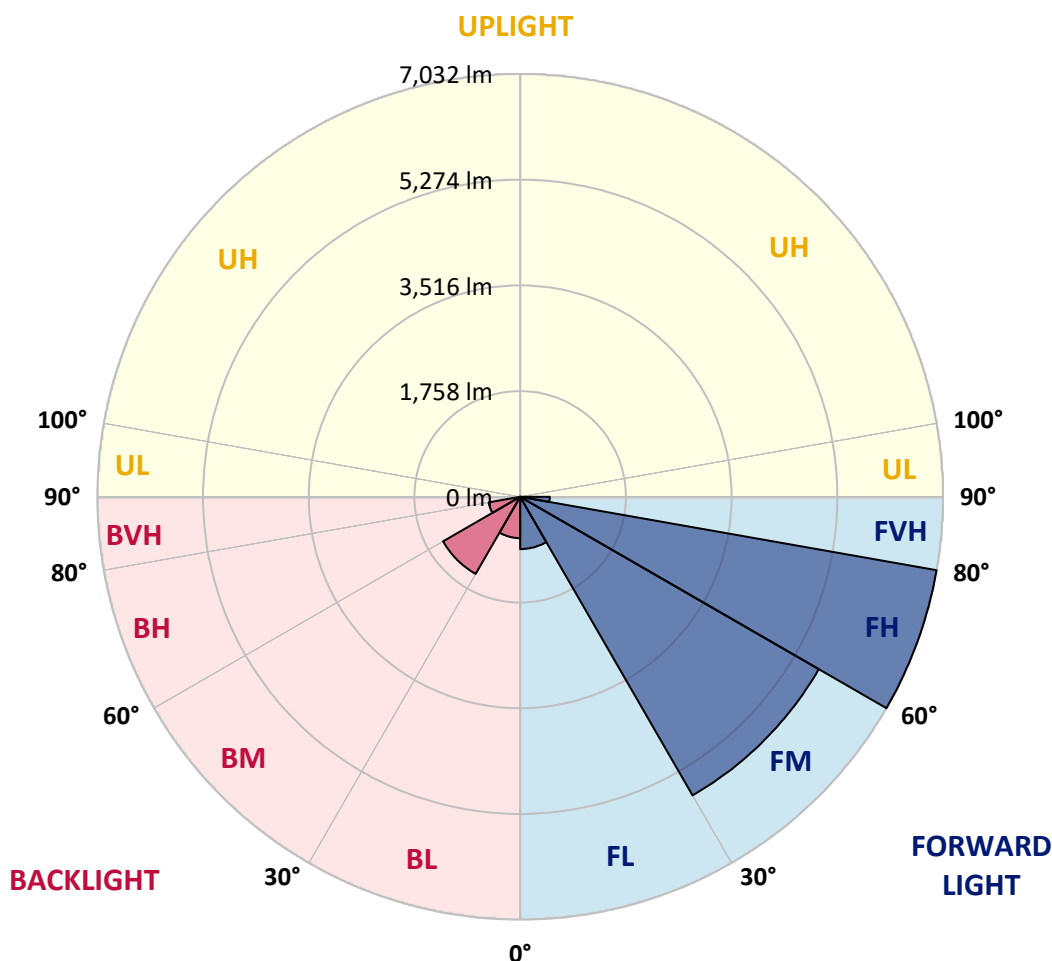
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.4	5.2			
FM (30°-60°)	5733.1	34.0			
FH (60°-80°)	7032.0	41.8			G3/7500
FVH (80°-90°)	492.3	2.9			G3/500
BL (0°-30°)	687.4	4.1	B2/1000		
BM (30°-60°)	1481.9	8.8	B2/2500		
BH (60°-80°)	532.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	14.4	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5
2.5°	1869.5	1887.7	1885.6	1883.6	1883.6	1881.6	1869.5	1857.4	1863.5	1861.5	1859.4
5°	1877.6	1895.7	1893.7	1891.7	1891.7	1893.7	1875.6	1861.5	1865.5	1869.5	1867.5
7.5°	1881.6	1897.7	1893.7	1891.7	1889.7	1895.7	1881.6	1883.6	1887.7	1887.7	1887.7
10°	1887.7	1899.7	1899.7	1901.8	1903.8	1909.8	1903.8	1909.8	1925.9	1921.9	1932.0
12.5°	1871.5	1885.6	1891.7	1901.8	1911.8	1915.9	1921.9	1938.0	1958.2	1968.2	1978.3
15°	1865.5	1879.6	1889.7	1901.8	1917.9	1921.9	1938.0	1966.2	1990.4	2010.5	2032.7
17.5°	1885.6	1901.8	1915.9	1923.9	1932.0	1938.0	1954.1	1990.4	2032.7	2069.0	2101.2
20°	1923.9	1940.0	1956.1	1964.2	1970.3	1974.3	1986.4	2020.6	2075.0	2131.4	2177.8
22.5°	1968.2	1984.4	2002.5	2008.5	2022.6	2022.6	2024.6	2058.9	2125.4	2201.9	2258.3
25°	2016.6	2026.7	2042.8	2052.8	2073.0	2077.0	2083.1	2113.3	2195.9	2282.5	2371.2
27.5°	2073.0	2093.1	2109.3	2121.3	2161.6	2163.7	2159.6	2197.9	2278.5	2385.3	2510.2
30°	2175.7	2197.9	2214.0	2234.2	2286.5	2284.5	2310.7	2351.0	2397.3	2514.2	2681.4
32.5°	2338.9	2340.9	2349.0	2375.2	2449.7	2457.8	2508.1	2580.7	2673.3	2747.9	2925.2
35°	2637.1	2627.0	2602.8	2598.8	2649.2	2653.2	2751.9	2905.0	3106.5	3354.3	3628.2
37.5°	2985.6	3011.8	2983.6	2897.0	2905.0	2907.0	3023.9	3219.3	3594.0	4214.5	4474.4
40°	3598.0	3612.1	3436.9	3299.9	3251.5	3229.4	3289.8	3585.9	4065.4	4873.2	5056.6
42.5°	4137.9	4137.9	3974.8	3763.2	3640.3	3656.4	3638.3	3932.4	4548.9	5445.4	5511.9
45°	4677.8	4659.7	4510.6	4333.3	4117.8	4103.7	4057.3	4283.0	4994.1	5856.4	5858.4
47.5°	5181.5	5223.8	5000.2	4804.8	4585.2	4575.1	4492.5	4667.8	5421.2	6217.0	6162.6
50°	5711.3	5769.7	5489.7	5270.1	5032.4	5046.5	4978.0	5100.9	5846.3	6553.4	6454.7
52.5°	6464.8	6356.0	6021.6	5717.4	5471.6	5511.9	5441.4	5513.9	6287.5	6821.3	6615.9
55°	7272.6	7079.2	6801.2	6291.5	5934.9	5930.9	5878.5	5965.1	6732.7	7127.6	6799.2
57.5°	7705.7	7764.2	7699.7	7286.7	6710.5	6700.5	6386.2	6396.3	7141.7	7389.5	7055.0
60°	8199.3	8271.8	8412.9	8155.0	7866.9	7875.0	7091.3	6857.6	7572.8	7599.0	7075.2
62.5°	8461.2	8469.3	8793.6	8884.3	9118.0	9170.3	8576.0	7421.7	7858.8	7760.1	7109.4
65°	7997.9	8012.0	8636.5	9093.8	9873.4	9943.9	9688.1	8513.6	8072.4	7844.7	7077.2
67.5°	7141.7	7256.5	7711.8	8803.7	10433.5	10443.5	9927.8	9321.4	8146.9	7856.8	6922.1
70°	5985.3	5945.0	6521.2	7832.7	10346.8	10272.3	9823.1	9414.1	8092.5	7691.6	6215.0
72.5°	4438.1	4377.7	4972.0	6297.6	9333.5	9474.5	9353.7	8872.2	7887.0	7075.2	5044.5
75°	3038.0	3108.5	3642.3	4748.3	7752.1	7965.6	8499.5	8453.1	7016.8	5864.4	3453.0
77.5°	2079.0	2109.3	2566.6	3533.6	6144.4	6227.0	7111.4	6829.4	5159.3	3604.1	1152.3
80°	1353.8	1343.7	1754.7	2516.2	4504.6	4494.5	5078.7	4321.3	2780.1	1228.9	159.2
82.5°	755.5	799.8	1051.6	1654.0	3044.0	3076.3	3170.9	2363.1	1069.7	143.0	100.7
85°	425.1	443.2	604.4	936.8	1595.5	1676.1	1414.2	868.3	191.4	78.6	58.4
87.5°	100.7	96.7	193.4	358.6	265.9	288.1	137.0	40.3	20.1	14.1	14.1
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°	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5	1861.5
2.5°	1859.4	1855.4	1851.4	1843.3	1837.3	1819.2	1821.2	1833.3	1821.2	1841.3	1829.2
5°	1863.5	1857.4	1847.4	1823.2	1805.1	1791.0	1786.9	1784.9	1768.8	1786.9	1778.9
7.5°	1879.6	1873.6	1851.4	1825.2	1799.0	1756.7	1750.7	1742.6	1712.4	1724.5	1714.4
10°	1917.9	1909.8	1871.5	1835.3	1795.0	1738.6	1706.3	1682.2	1647.9	1651.9	1641.9
12.5°	1966.2	1958.2	1913.8	1853.4	1797.0	1718.4	1662.0	1615.7	1565.3	1565.3	1555.2
15°	2022.6	2014.6	1964.2	1893.7	1805.1	1702.3	1617.7	1543.2	1462.6	1452.5	1440.4
17.5°	2099.2	2087.1	2028.7	1938.0	1827.2	1688.2	1573.4	1462.6	1339.7	1301.4	1281.3
20°	2177.8	2163.7	2113.3	2000.5	1857.4	1674.1	1508.9	1357.8	1198.7	1120.1	1106.0
22.5°	2278.5	2274.5	2212.0	2054.9	1867.5	1643.9	1428.3	1241.0	1027.4	918.6	896.5
25°	2397.3	2391.3	2294.6	2097.2	1855.4	1583.5	1313.5	1073.8	834.0	725.2	701.1
27.5°	2538.4	2522.2	2365.1	2107.2	1821.2	1488.8	1166.4	858.2	616.5	523.8	505.7
30°	2687.4	2663.3	2439.6	2109.3	1752.7	1371.9	973.0	630.6	437.2	370.7	370.7
32.5°	2937.2	2854.6	2512.2	2081.1	1654.0	1204.7	741.4	425.1	306.2	280.0	280.0
35°	3473.1	3275.7	2627.0	2044.8	1525.0	997.2	503.6	288.1	255.9	255.9	253.8
37.5°	4276.9	3910.3	2822.4	1984.4	1349.8	741.4	332.4	237.7	243.8	243.8	243.8
40°	4790.7	4405.9	3088.3	1889.7	1148.3	503.6	237.7	225.6	229.7	233.7	233.7
42.5°	5270.1	4837.0	3354.3	1758.7	926.7	322.3	221.6	211.5	213.5	213.5	215.6
45°	5574.3	5157.3	3551.7	1619.7	682.9	229.7	217.6	199.4	193.4	193.4	197.4
47.5°	5856.4	5366.8	3638.3	1436.4	441.2	215.6	207.5	185.3	177.3	175.3	175.3
50°	6138.4	5582.4	3686.7	1218.8	276.0	207.5	191.4	169.2	161.2	159.2	159.2
52.5°	6263.3	5650.9	3577.9	973.0	205.5	199.4	179.3	155.1	143.0	143.0	143.0
55°	6394.3	5777.8	3394.6	697.0	195.4	185.3	165.2	139.0	128.9	133.0	133.0
57.5°	6539.3	5687.1	3199.1	453.3	193.4	167.2	147.1	124.9	116.8	120.9	122.9
60°	6495.0	5709.3	2919.1	304.2	185.3	153.1	133.0	110.8	104.8	104.8	104.8
62.5°	6495.0	5538.1	2459.8	231.7	169.2	141.0	122.9	102.7	92.7	88.6	84.6
65°	6323.7	5133.1	1797.0	201.5	151.1	130.9	110.8	90.7	78.6	72.5	70.5
67.5°	5806.0	4462.3	723.2	183.3	139.0	120.9	102.7	82.6	68.5	60.4	58.4
70°	4935.7	3293.8	207.5	163.2	141.0	112.8	96.7	72.5	60.4	50.4	48.3
72.5°	3658.5	1740.6	169.2	128.9	124.9	96.7	90.7	68.5	52.4	42.3	40.3
75°	1847.4	237.7	145.0	92.7	96.7	100.7	86.6	60.4	48.3	34.2	32.2
77.5°	191.4	141.0	126.9	62.5	68.5	70.5	74.5	56.4	42.3	28.2	26.2
80°	118.9	106.8	124.9	54.4	40.3	48.3	50.4	44.3	34.2	22.2	22.2
82.5°	84.6	90.7	92.7	34.2	30.2	28.2	26.2	26.2	30.2	20.1	20.1
85°	58.4	60.4	38.3	22.2	20.1	18.1	16.1	16.1	14.1	16.1	14.1
87.5°	14.1	12.1	12.1	12.1	10.1	10.1	8.1	8.1	8.1	8.1	10.1
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)