

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: P509224

Luminaire Tested: **VERD-CA2-130-740-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509224  
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-CA2-130-740-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1180mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

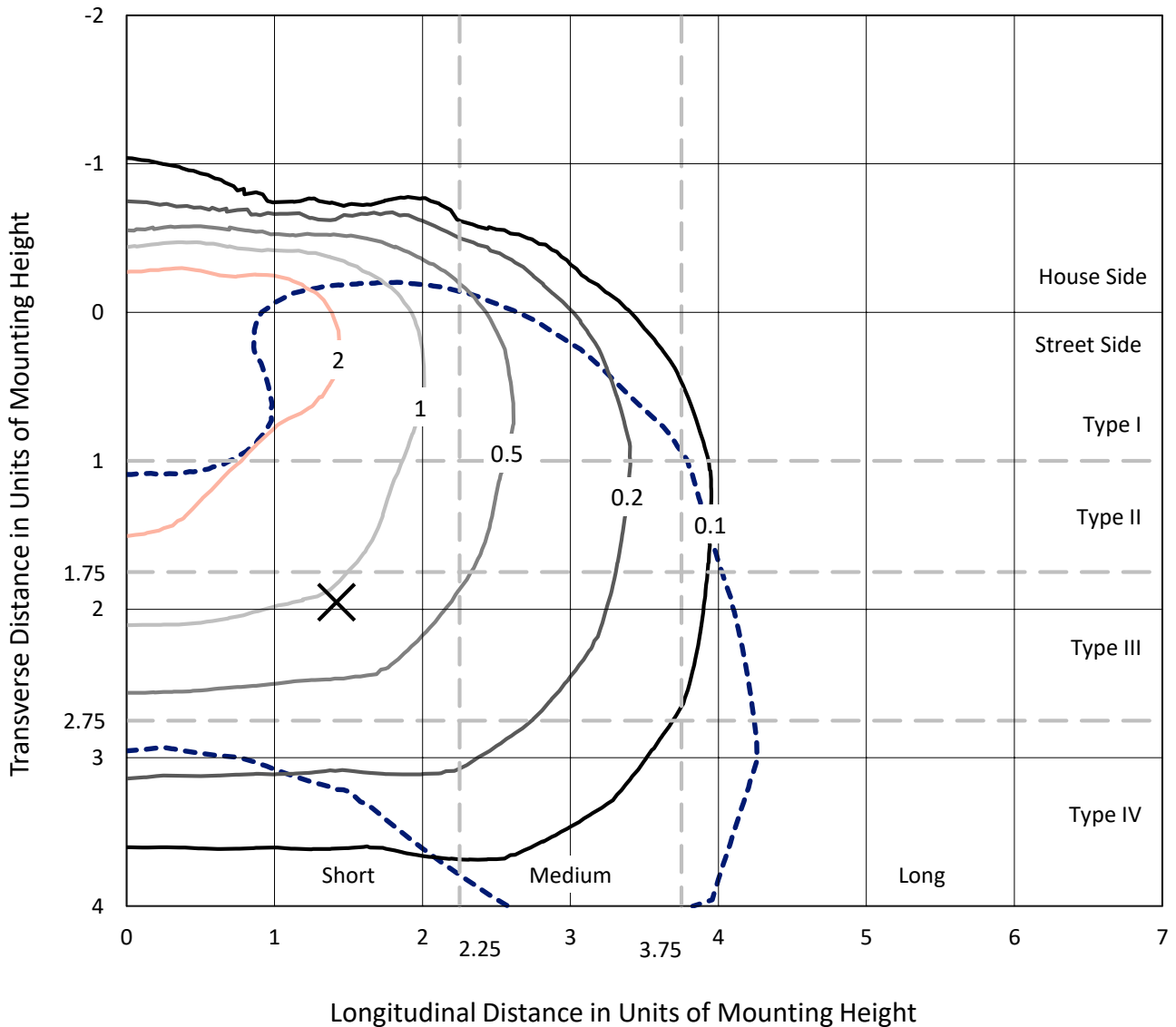
Lumens per Lamp: N/A  
Luminaire Lumens: 16540 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): 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

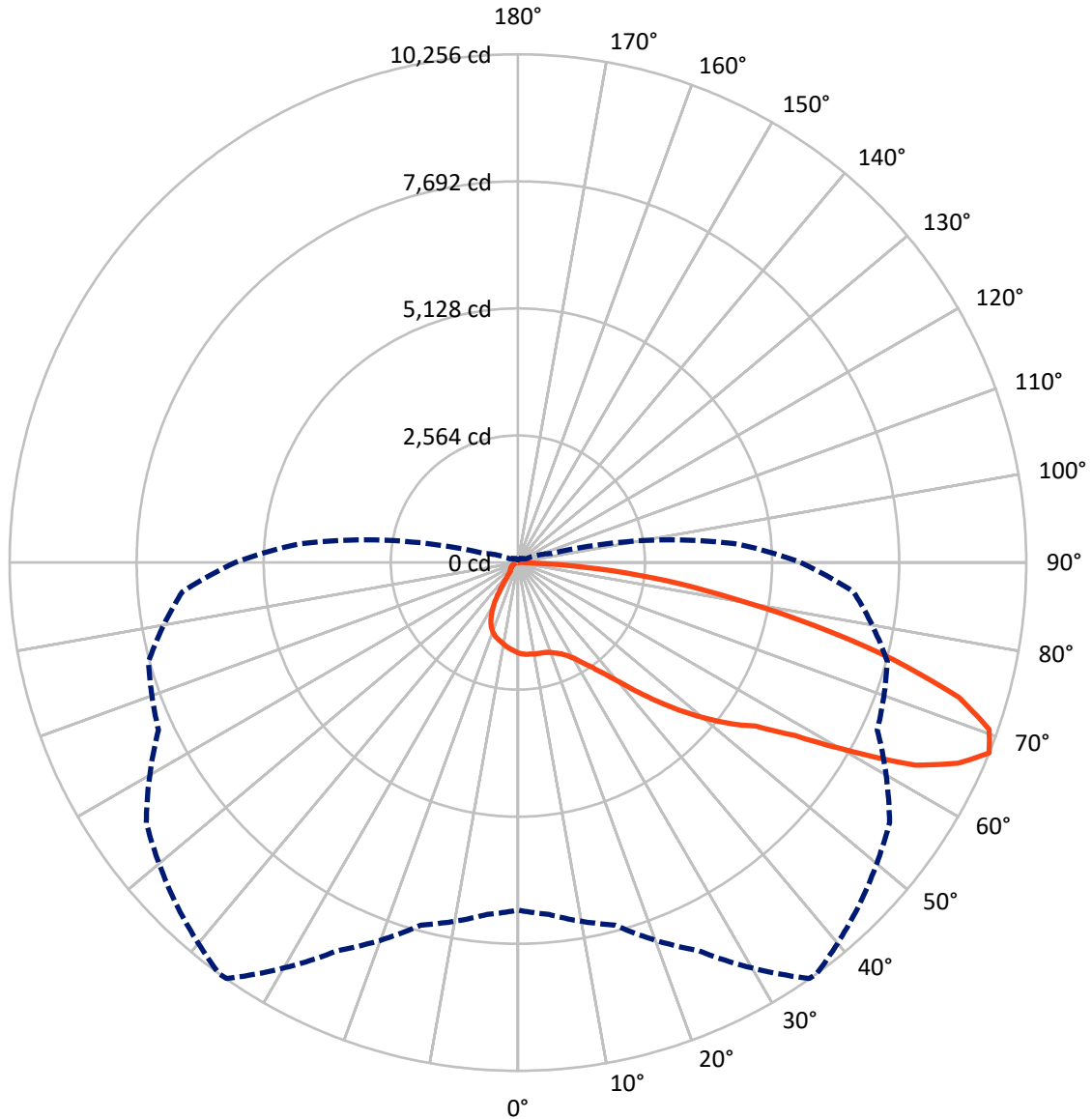
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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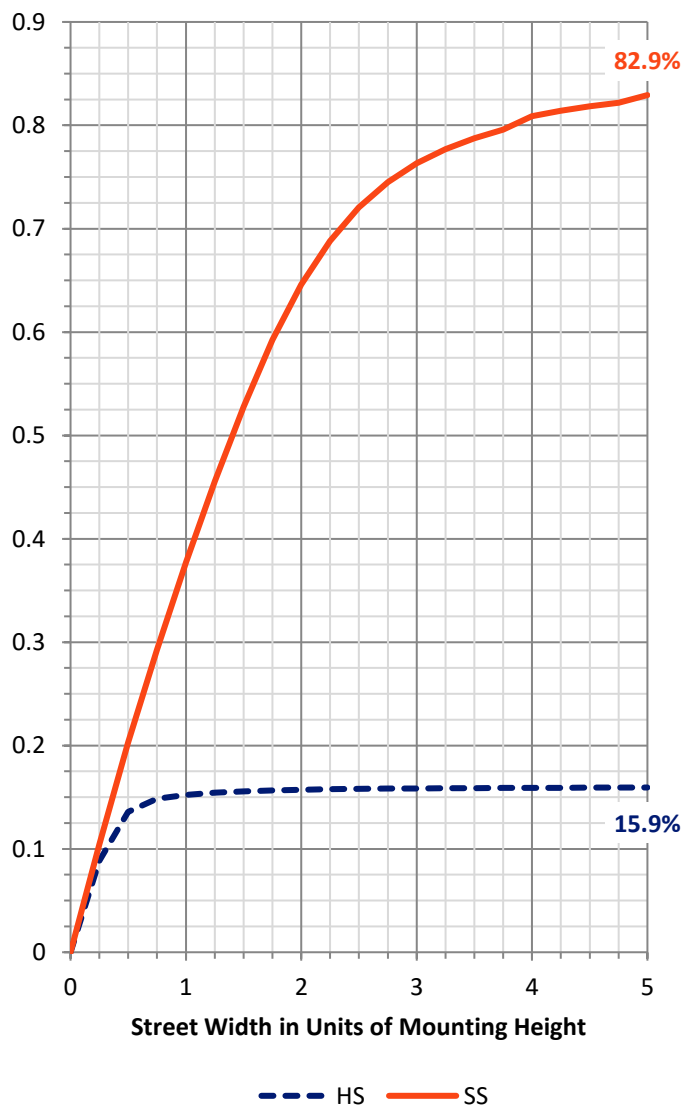
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2667.4	0.0	2667.4
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	13872.6	0.0	13872.6
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	16540.0	0.0	16540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.5	1.0
10°-20°	511.1	3.1
20°-30°	845.2	5.1
30°-40°	1340.7	8.1
40°-50°	2314.2	14.0
50°-60°	3430.2	20.7
60°-70°	4434.8	26.8
70°-80°	2993.6	18.1
80°-90°	497.6	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°	16540.0	100.0
0°-180°	16540.0	100.0

**Coefficient of Utilization**



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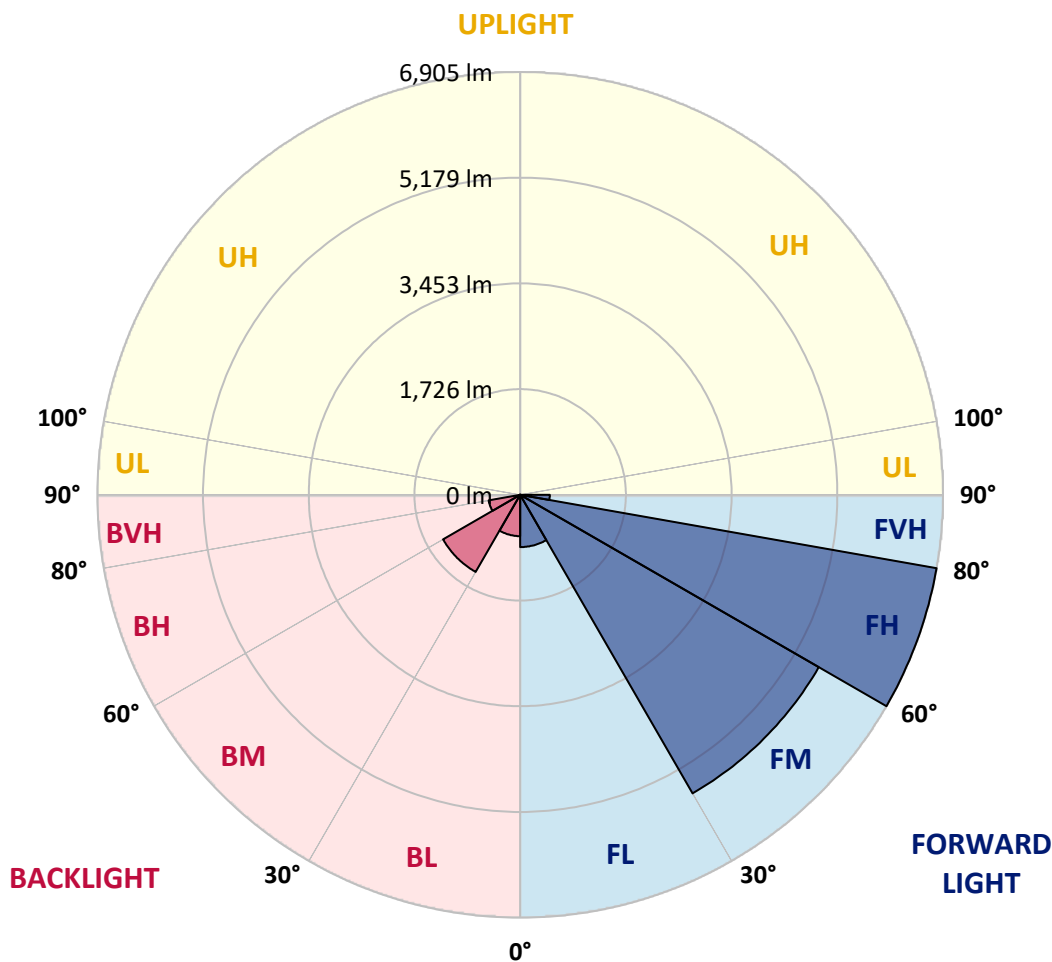
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.8	5.2			
FM (30°-60°)	5629.9	34.0			
FH (60°-80°)	6905.5	41.8			G3/7500
FVH (80°-90°)	483.5	2.9			G3/500
BL (0°-30°)	675.0	4.1	B2/1000		
BM (30°-60°)	1455.2	8.8	B2/2500		
BH (60°-80°)	523.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	14.1	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°	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0
2.5°	1835.9	1853.7	1851.7	1849.7	1849.7	1847.8	1835.9	1824.0	1830.0	1828.0	1826.0
5°	1843.8	1861.6	1859.6	1857.7	1857.7	1859.6	1841.8	1828.0	1831.9	1835.9	1833.9
7.5°	1847.8	1863.6	1859.6	1857.7	1855.7	1861.6	1847.8	1849.7	1853.7	1853.7	1853.7
10°	1853.7	1865.6	1865.6	1867.5	1869.5	1875.5	1869.5	1875.5	1891.3	1887.3	1897.2
12.5°	1837.9	1851.7	1857.7	1867.5	1877.4	1881.4	1887.3	1903.2	1922.9	1932.8	1942.7
15°	1831.9	1845.8	1855.7	1867.5	1883.4	1887.3	1903.2	1930.9	1954.6	1974.4	1996.1
17.5°	1851.7	1867.5	1881.4	1889.3	1897.2	1903.2	1919.0	1954.6	1996.1	2031.7	2063.4
20°	1889.3	1905.1	1921.0	1928.9	1934.8	1938.8	1950.6	1984.3	2037.7	2093.1	2138.6
22.5°	1932.8	1948.7	1966.5	1972.4	1986.2	1986.2	1988.2	2021.9	2087.1	2162.3	2217.7
25°	1980.3	1990.2	2006.0	2015.9	2035.7	2039.7	2045.6	2075.3	2156.4	2241.4	2328.5
27.5°	2035.7	2055.5	2071.3	2083.2	2122.7	2124.7	2120.8	2158.4	2237.5	2342.3	2465.0
30°	2136.6	2158.4	2174.2	2194.0	2245.4	2243.4	2269.1	2308.7	2354.2	2469.0	2633.2
32.5°	2296.8	2298.8	2306.7	2332.5	2405.6	2413.6	2463.0	2534.2	2625.2	2698.4	2872.5
35°	2589.6	2579.7	2556.0	2552.0	2601.5	2605.5	2702.4	2852.8	3050.6	3293.9	3563.0
37.5°	2931.9	2957.6	2929.9	2844.8	2852.8	2854.7	2969.5	3161.4	3529.3	4138.7	4393.9
40°	3533.3	3547.1	3375.0	3240.5	3193.0	3171.3	3230.6	3521.4	3992.3	4785.6	4965.6
42.5°	4063.5	4063.5	3903.2	3695.5	3574.8	3590.7	3572.9	3861.7	4467.1	5347.4	5412.7
45°	4593.7	4575.9	4429.5	4255.4	4043.7	4029.9	3984.4	4205.9	4904.3	5751.0	5753.0
47.5°	5088.3	5129.8	4910.2	4718.3	4502.7	4492.8	4411.7	4583.8	5323.7	6105.1	6051.7
50°	5608.6	5665.9	5391.0	5175.3	4941.9	4955.7	4888.5	5009.1	5741.1	6435.5	6338.6
52.5°	6348.5	6241.6	5913.2	5614.5	5373.1	5412.7	5343.5	5414.7	6174.4	6698.6	6496.8
55°	7141.8	6951.9	6678.8	6178.3	5828.2	5824.2	5772.8	5857.8	6611.6	6999.3	6676.9
57.5°	7567.1	7624.5	7561.2	7155.6	6589.8	6579.9	6271.3	6281.2	7013.2	7256.5	6928.1
60°	8051.8	8123.0	8261.5	8008.3	7725.4	7733.3	6963.7	6734.2	7436.5	7462.3	6947.9
62.5°	8309.0	8316.9	8635.4	8724.4	8953.9	9005.4	8421.8	7288.2	7717.5	7620.5	6981.5
65°	7854.0	7867.8	8481.1	8930.2	9695.8	9765.0	9513.8	8360.4	7927.2	7703.6	6949.9
67.5°	7013.2	7125.9	7573.0	8645.3	10245.8	10255.7	9749.2	9153.7	8000.4	7715.5	6797.5
70°	5877.6	5838.1	6403.9	7691.7	10160.7	10087.5	9646.3	9244.7	7947.0	7553.3	6103.1
72.5°	4358.3	4298.9	4882.5	6184.3	9165.6	9304.1	9185.4	8712.6	7745.2	6947.9	4953.7
75°	2983.3	3052.6	3576.8	4662.9	7612.6	7822.3	8346.6	8301.1	6890.5	5758.9	3390.9
77.5°	2041.6	2071.3	2520.4	3470.0	6033.9	6115.0	6983.5	6706.5	5066.5	3539.2	1131.6
80°	1329.4	1319.5	1723.1	2470.9	4423.5	4413.7	4987.4	4243.5	2730.1	1206.8	156.3
82.5°	741.9	785.4	1032.7	1624.2	2989.3	3020.9	3113.9	2320.6	1050.5	140.5	98.9
85°	417.4	435.2	593.5	919.9	1566.8	1646.0	1388.8	852.7	187.9	77.2	57.4
87.5°	98.9	95.0	189.9	352.1	261.1	282.9	134.5	39.6	19.8	13.8	13.8
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°	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0
2.5°	1826.0	1822.0	1818.1	1810.2	1804.2	1786.4	1788.4	1800.3	1788.4	1808.2	1796.3
5°	1830.0	1824.0	1814.1	1790.4	1772.6	1758.7	1754.8	1752.8	1737.0	1754.8	1746.9
7.5°	1845.8	1839.8	1818.1	1792.4	1766.6	1725.1	1719.2	1711.3	1681.6	1693.5	1683.6
10°	1883.4	1875.5	1837.9	1802.3	1762.7	1707.3	1675.6	1651.9	1618.3	1622.2	1612.3
12.5°	1930.9	1922.9	1879.4	1820.1	1764.7	1687.5	1632.1	1586.6	1537.2	1537.2	1527.3
15°	1986.2	1978.3	1928.9	1859.6	1772.6	1671.7	1588.6	1515.4	1436.3	1426.4	1414.5
17.5°	2061.4	2049.6	1992.2	1903.2	1794.3	1657.8	1545.1	1436.3	1315.6	1278.0	1258.2
20°	2138.6	2124.7	2075.3	1964.5	1824.0	1644.0	1481.8	1333.4	1177.1	1100.0	1086.1
22.5°	2237.5	2233.5	2172.2	2017.9	1833.9	1614.3	1402.6	1218.7	1008.9	902.1	880.4
25°	2354.2	2348.3	2253.3	2059.4	1822.0	1555.0	1289.9	1054.5	819.0	712.2	688.5
27.5°	2492.7	2476.9	2322.6	2069.3	1788.4	1462.0	1145.5	842.8	605.4	514.4	496.6
30°	2639.1	2615.4	2395.8	2071.3	1721.1	1347.2	955.5	619.2	429.3	364.0	364.0
32.5°	2884.4	2803.3	2467.0	2043.6	1624.2	1183.0	728.0	417.4	300.7	275.0	275.0
35°	3410.6	3216.8	2579.7	2008.0	1497.6	979.3	494.6	282.9	251.2	251.2	249.3
37.5°	4200.0	3839.9	2771.6	1948.7	1325.5	728.0	326.4	233.4	239.4	239.4	239.4
40°	4704.5	4326.6	3032.8	1855.7	1127.6	494.6	233.4	221.6	225.5	229.5	229.5
42.5°	5175.3	4750.0	3293.9	1727.1	910.0	316.5	217.6	207.7	209.7	209.7	211.7
45°	5474.0	5064.5	3487.8	1590.6	670.7	225.5	213.7	195.9	189.9	189.9	193.9
47.5°	5751.0	5270.3	3572.9	1410.5	433.3	211.7	203.8	182.0	174.1	172.1	172.1
50°	6028.0	5482.0	3620.3	1196.9	271.0	203.8	187.9	166.2	158.3	156.3	156.3
52.5°	6150.6	5549.2	3513.5	955.5	201.8	195.9	176.1	152.3	140.5	140.5	140.5
55°	6279.2	5673.9	3333.5	684.5	191.9	182.0	162.2	136.5	126.6	130.6	130.6
57.5°	6421.7	5584.8	3141.6	445.1	189.9	164.2	144.4	122.7	114.7	118.7	120.7
60°	6378.1	5606.6	2866.6	298.7	182.0	150.4	130.6	108.8	102.9	102.9	102.9
62.5°	6378.1	5438.4	2415.5	227.5	166.2	138.5	120.7	100.9	91.0	87.0	83.1
65°	6210.0	5040.8	1764.7	197.8	148.4	128.6	108.8	89.0	77.2	71.2	69.2
67.5°	5701.5	4382.0	710.2	180.0	136.5	118.7	100.9	81.1	67.3	59.3	57.4
70°	4846.9	3234.6	203.8	160.2	138.5	110.8	95.0	71.2	59.3	49.5	47.5
72.5°	3592.6	1709.3	166.2	126.6	122.7	95.0	89.0	67.3	51.4	41.5	39.6
75°	1814.1	233.4	142.4	91.0	95.0	98.9	85.1	59.3	47.5	33.6	31.7
77.5°	187.9	138.5	124.6	61.3	67.3	69.2	73.2	55.4	41.5	27.7	25.7
80°	116.7	104.9	122.7	53.4	39.6	47.5	49.5	43.5	33.6	21.8	21.8
82.5°	83.1	89.0	91.0	33.6	29.7	27.7	25.7	25.7	29.7	19.8	19.8
85°	57.4	59.3	37.6	21.8	19.8	17.8	15.8	15.8	13.8	15.8	13.8
87.5°	13.8	11.9	11.9	11.9	9.9	9.9	7.9	7.9	7.9	7.9	9.9
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)