

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: P509200

Luminaire Tested: **VERD-CA2-130-722-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509200  
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-CA2-130-722-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1180mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13480 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

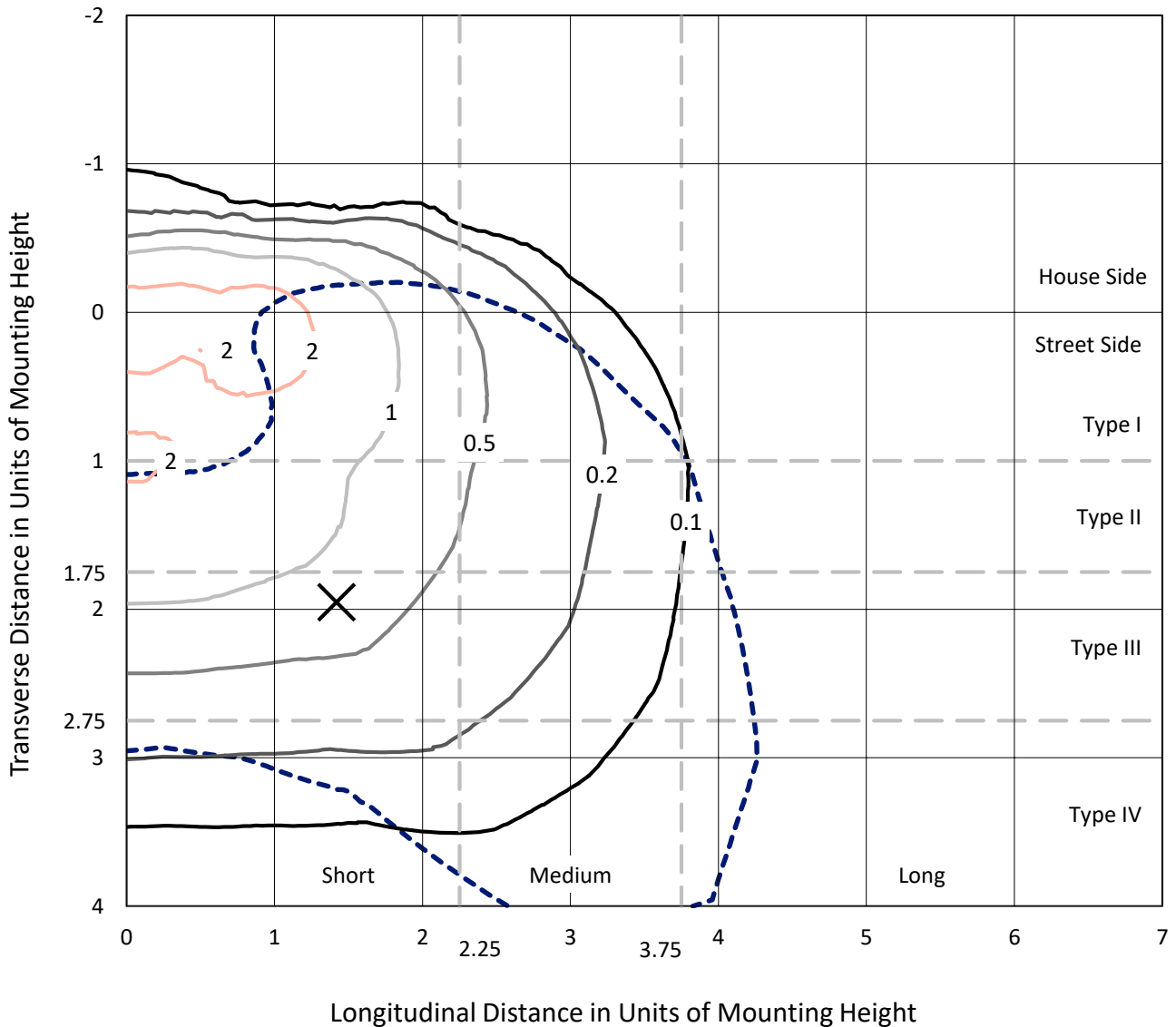
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

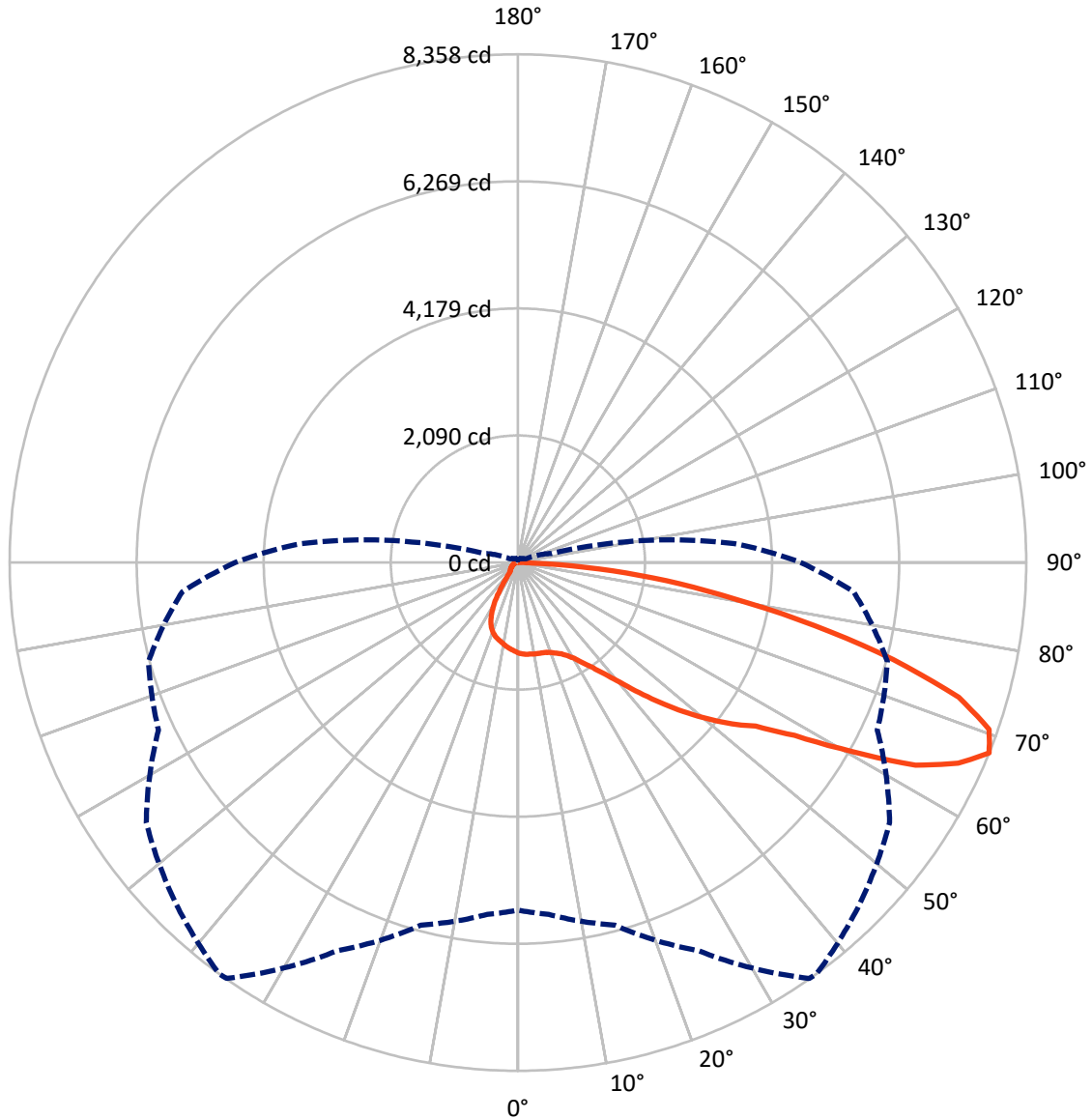
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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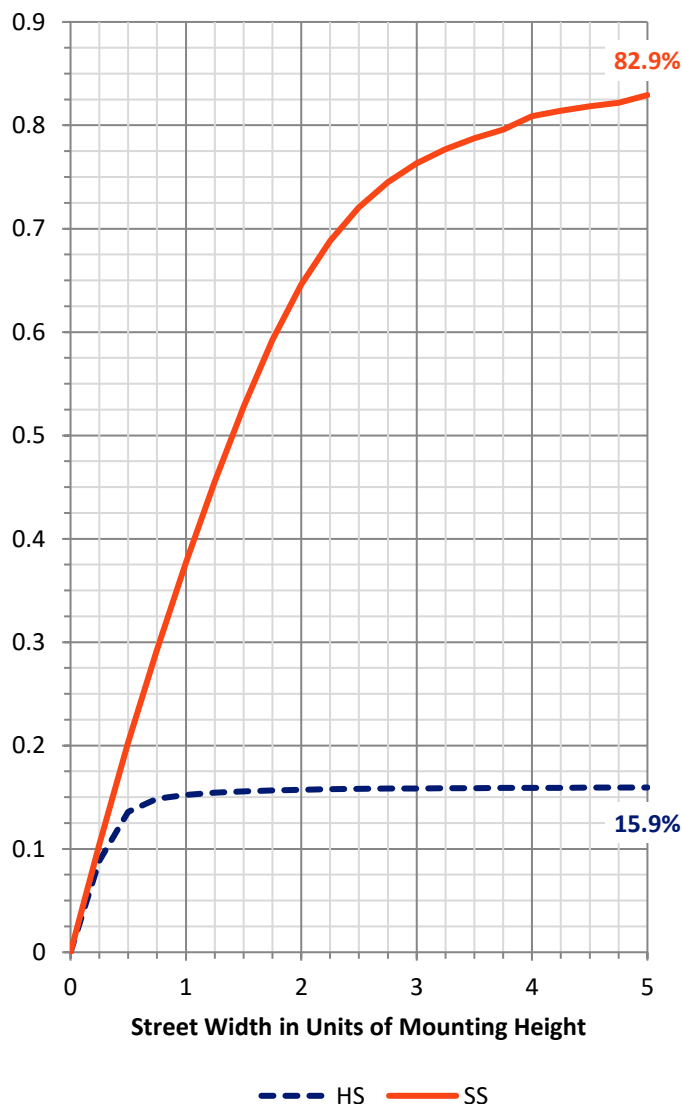
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2173.9	0.0	2173.9
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	11306.1	0.0	11306.1
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	13480.0	0.0	13480.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.6	1.0
10°-20°	416.5	3.1
20°-30°	688.9	5.1
30°-40°	1092.7	8.1
40°-50°	1886.1	14.0
50°-60°	2795.6	20.7
60°-70°	3614.3	26.8
70°-80°	2439.8	18.1
80°-90°	405.5	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°	13480.0	100.0
0°-180°	13480.0	100.0

**Coefficient of Utilization**



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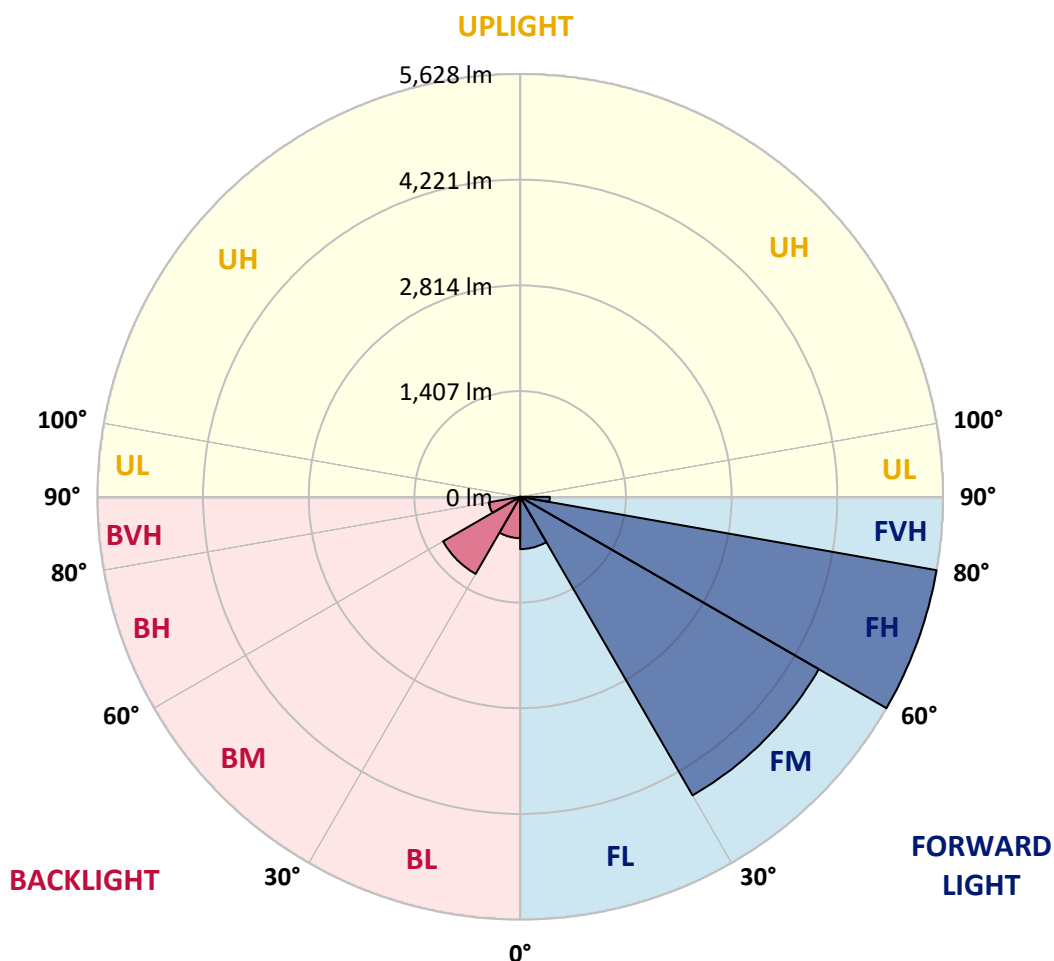
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.8	5.2			
FM	(30°-60°)	4588.3	34.0			
FH	(60°-80°)	5627.9	41.8			G3/7500
FVH	(80°-90°)	394.0	2.9			G3/500
BL	(0°-30°)	550.2	4.1	B2/1000		
BM	(30°-60°)	1186.0	8.8	B2/2500		
BH	(60°-80°)	426.2	3.2	B1/500		G1/500
BVH	(80°-90°)	11.5	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8
2.5°	1496.2	1510.8	1509.1	1507.5	1507.5	1505.9	1496.2	1486.6	1491.4	1489.8	1488.2
5°	1502.7	1517.2	1515.6	1514.0	1514.0	1515.6	1501.1	1489.8	1493.0	1496.2	1494.6
7.5°	1505.9	1518.8	1515.6	1514.0	1512.4	1517.2	1505.9	1507.5	1510.8	1510.8	1510.8
10°	1510.8	1520.4	1520.4	1522.0	1523.6	1528.5	1523.6	1528.5	1541.4	1538.2	1546.2
12.5°	1497.9	1509.1	1514.0	1522.0	1530.1	1533.3	1538.2	1551.1	1567.2	1575.2	1583.3
15°	1493.0	1504.3	1512.4	1522.0	1534.9	1538.2	1551.1	1573.6	1593.0	1609.1	1626.8
17.5°	1509.1	1522.0	1533.3	1539.8	1546.2	1551.1	1564.0	1593.0	1626.8	1655.9	1681.7
20°	1539.8	1552.7	1565.6	1572.0	1576.9	1580.1	1589.8	1617.2	1660.7	1705.8	1742.9
22.5°	1575.2	1588.1	1602.7	1607.5	1618.8	1618.8	1620.4	1647.8	1701.0	1762.3	1807.4
25°	1613.9	1622.0	1634.9	1643.0	1659.1	1662.3	1667.1	1691.3	1757.4	1826.8	1897.7
27.5°	1659.1	1675.2	1688.1	1697.8	1730.0	1731.6	1728.4	1759.0	1823.5	1909.0	2009.0
30°	1741.3	1759.0	1771.9	1788.1	1830.0	1828.4	1849.3	1881.6	1918.7	2012.2	2146.0
32.5°	1871.9	1873.5	1880.0	1900.9	1960.6	1967.0	2007.3	2065.4	2139.6	2199.2	2341.1
35°	2110.5	2102.5	2083.1	2079.9	2120.2	2123.4	2202.4	2325.0	2486.2	2684.5	2903.8
37.5°	2389.5	2410.4	2387.9	2318.5	2325.0	2326.6	2420.1	2576.5	2876.4	3373.0	3581.0
40°	2879.6	2890.9	2750.6	2641.0	2602.3	2584.6	2632.9	2869.9	3253.7	3900.2	4046.9
42.5°	3311.7	3311.7	3181.1	3011.8	2913.5	2926.4	2911.9	3147.3	3640.6	4358.1	4411.3
45°	3743.8	3729.3	3610.0	3468.1	3295.6	3284.3	3247.2	3427.8	3997.0	4687.0	4688.6
47.5°	4146.9	4180.8	4001.8	3845.4	3669.7	3661.6	3595.5	3735.8	4338.8	4975.6	4932.1
50°	4570.9	4617.7	4393.6	4217.8	4027.6	4038.9	3984.1	4082.4	4679.0	5244.9	5165.9
52.5°	5174.0	5086.9	4819.2	4575.8	4379.1	4411.3	4354.9	4412.9	5032.1	5459.3	5294.9
55°	5820.5	5665.7	5443.2	5035.3	4749.9	4746.7	4704.8	4774.1	5388.4	5704.4	5441.6
57.5°	6167.2	6213.9	6162.3	5831.8	5370.7	5362.6	5111.1	5119.1	5715.7	5914.0	5646.4
60°	6562.2	6620.2	6733.1	6526.7	6296.1	6302.6	5675.4	5488.4	6060.7	6081.7	5662.5
62.5°	6771.8	6778.2	7037.8	7110.4	7297.4	7339.3	6863.7	5939.8	6289.7	6210.7	5689.9
65°	6400.9	6412.2	6912.0	7278.0	7902.0	7958.4	7753.7	6813.7	6460.6	6278.4	5664.1
67.5°	5715.7	5807.6	6172.0	7045.9	8350.2	8358.3	7945.5	7460.2	6520.3	6288.1	5540.0
70°	4790.2	4758.0	5219.1	6268.7	8280.9	8221.3	7861.7	7534.4	6476.7	6155.9	4974.0
72.5°	3552.0	3503.6	3979.2	5040.1	7469.9	7582.8	7486.0	7100.7	6312.3	5662.5	4037.3
75°	2431.4	2487.8	2915.1	3800.3	6204.2	6375.1	6802.4	6765.3	5615.7	4693.5	2763.5
77.5°	1663.9	1688.1	2054.1	2828.0	4917.6	4983.7	5691.5	5465.8	4129.2	2884.5	922.3
80°	1083.5	1075.4	1404.3	2013.8	3605.2	3597.1	4064.7	3458.4	2225.0	983.5	127.4
82.5°	604.6	640.1	841.6	1323.7	2436.2	2462.0	2537.8	1891.3	856.1	114.5	80.6
85°	340.2	354.7	483.7	749.7	1277.0	1341.5	1131.9	694.9	153.2	62.9	46.8
87.5°	80.6	77.4	154.8	287.0	212.8	230.6	109.6	32.2	16.1	11.3	11.3
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°	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8	1489.8
2.5°	1488.2	1485.0	1481.7	1475.3	1470.4	1455.9	1457.5	1467.2	1457.5	1473.7	1464.0
5°	1491.4	1486.6	1478.5	1459.2	1444.6	1433.4	1430.1	1428.5	1415.6	1430.1	1423.7
7.5°	1504.3	1499.5	1481.7	1460.8	1439.8	1405.9	1401.1	1394.7	1370.5	1380.2	1372.1
10°	1534.9	1528.5	1497.9	1468.8	1436.6	1391.4	1365.6	1346.3	1318.9	1322.1	1314.0
12.5°	1573.6	1567.2	1531.7	1483.3	1438.2	1375.3	1330.2	1293.1	1252.8	1252.8	1244.7
15°	1618.8	1612.3	1572.0	1515.6	1444.6	1362.4	1294.7	1235.0	1170.5	1162.5	1152.8
17.5°	1680.0	1670.4	1623.6	1551.1	1462.4	1351.1	1259.2	1170.5	1072.2	1041.6	1025.4
20°	1742.9	1731.6	1691.3	1601.0	1486.6	1339.8	1207.6	1086.7	959.3	896.5	885.2
22.5°	1823.5	1820.3	1770.3	1644.6	1494.6	1315.7	1143.1	993.2	822.3	735.2	717.5
25°	1918.7	1913.8	1836.4	1678.4	1485.0	1267.3	1051.2	859.4	667.5	580.4	561.1
27.5°	2031.5	2018.6	1892.9	1686.5	1457.5	1191.5	933.5	686.9	493.4	419.2	404.7
30°	2150.8	2131.5	1952.5	1688.1	1402.7	1098.0	778.8	504.7	349.9	296.7	296.7
32.5°	2350.8	2284.7	2010.6	1665.5	1323.7	964.2	593.3	340.2	245.1	224.1	224.1
35°	2779.7	2621.6	2102.5	1636.5	1220.5	798.1	403.1	230.6	204.8	204.8	203.2
37.5°	3423.0	3129.5	2258.9	1588.1	1080.3	593.3	266.0	190.3	195.1	195.1	195.1
40°	3834.1	3526.2	2471.7	1512.4	919.0	403.1	190.3	180.6	183.8	187.0	187.0
42.5°	4217.8	3871.2	2684.5	1407.6	741.7	258.0	177.4	169.3	170.9	170.9	172.5
45°	4461.3	4127.6	2842.5	1296.3	546.6	183.8	174.1	159.6	154.8	154.8	158.0
47.5°	4687.0	4295.2	2911.9	1149.6	353.1	172.5	166.1	148.3	141.9	140.3	140.3
50°	4912.8	4467.8	2950.6	975.5	220.9	166.1	153.2	135.4	129.0	127.4	127.4
52.5°	5012.7	4522.6	2863.5	778.8	164.5	159.6	143.5	124.1	114.5	114.5	114.5
55°	5117.5	4624.2	2716.8	557.9	156.4	148.3	132.2	111.3	103.2	106.4	106.4
57.5°	5233.6	4551.6	2560.4	362.8	154.8	133.8	117.7	100.0	93.5	96.7	98.4
60°	5198.1	4569.3	2336.3	243.5	148.3	122.5	106.4	88.7	83.8	83.8	83.8
62.5°	5198.1	4432.3	1968.7	185.4	135.4	112.9	98.4	82.2	74.2	70.9	67.7
65°	5061.1	4108.2	1438.2	161.2	120.9	104.8	88.7	72.6	62.9	58.0	56.4
67.5°	4646.7	3571.3	578.8	146.7	111.3	96.7	82.2	66.1	54.8	48.4	46.8
70°	3950.2	2636.2	166.1	130.6	112.9	90.3	77.4	58.0	48.4	40.3	38.7
72.5°	2928.0	1393.1	135.4	103.2	100.0	77.4	72.6	54.8	41.9	33.9	32.2
75°	1478.5	190.3	116.1	74.2	77.4	80.6	69.3	48.4	38.7	27.4	25.8
77.5°	153.2	112.9	101.6	50.0	54.8	56.4	59.7	45.1	33.9	22.6	21.0
80°	95.1	85.5	100.0	43.5	32.2	38.7	40.3	35.5	27.4	17.7	17.7
82.5°	67.7	72.6	74.2	27.4	24.2	22.6	21.0	21.0	24.2	16.1	16.1
85°	46.8	48.4	30.6	17.7	16.1	14.5	12.9	12.9	11.3	12.9	11.3
87.5°	11.3	9.7	9.7	9.7	8.1	8.1	6.4	6.4	6.4	6.4	8.1
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)