

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: P509208

Luminaire Tested: **VERD-CA2-130-727-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509208  
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-CA2-130-727-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1180mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14006 lumens  
Efficiency: N/A  
Efficacy: 106.3 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

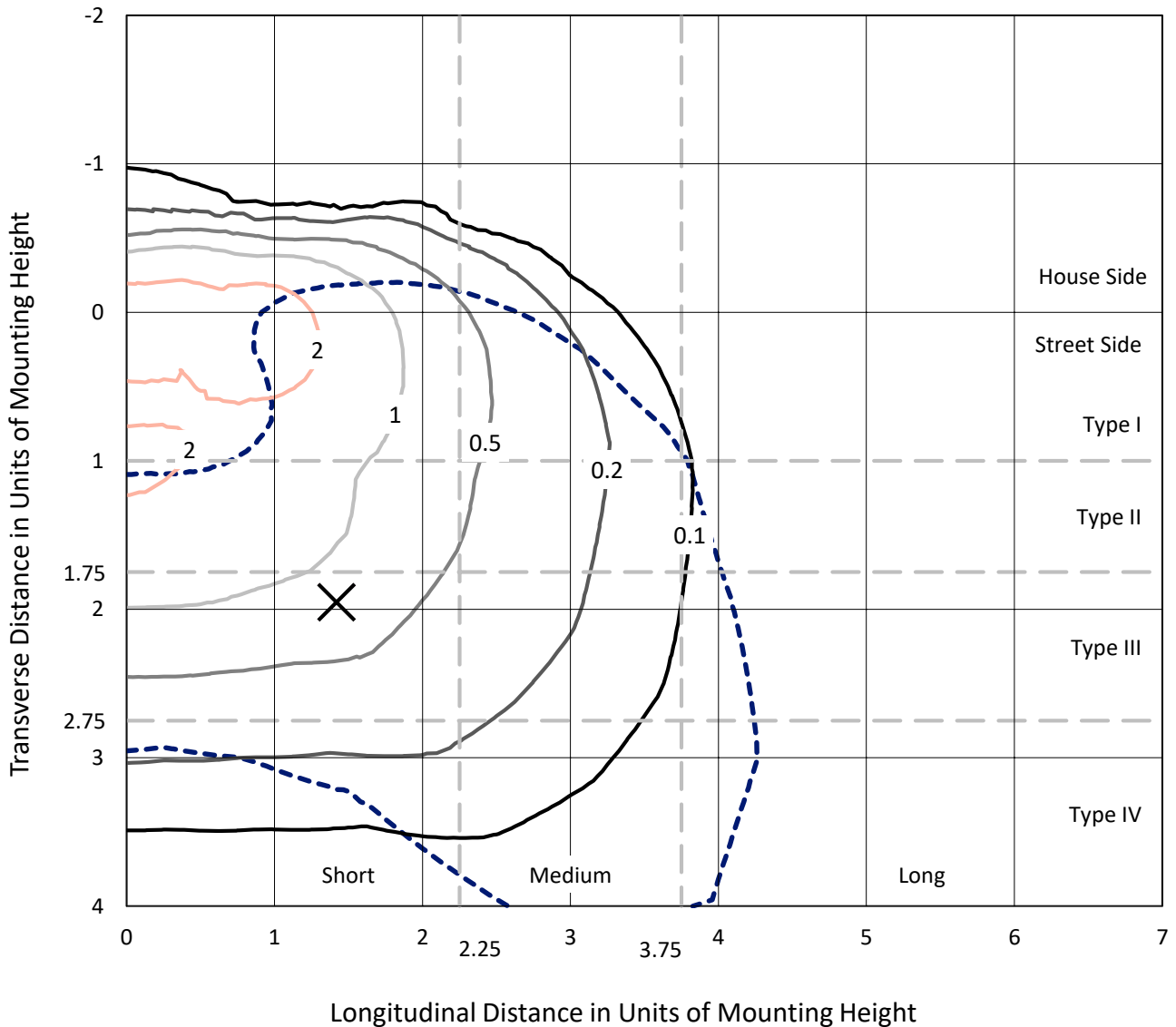
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

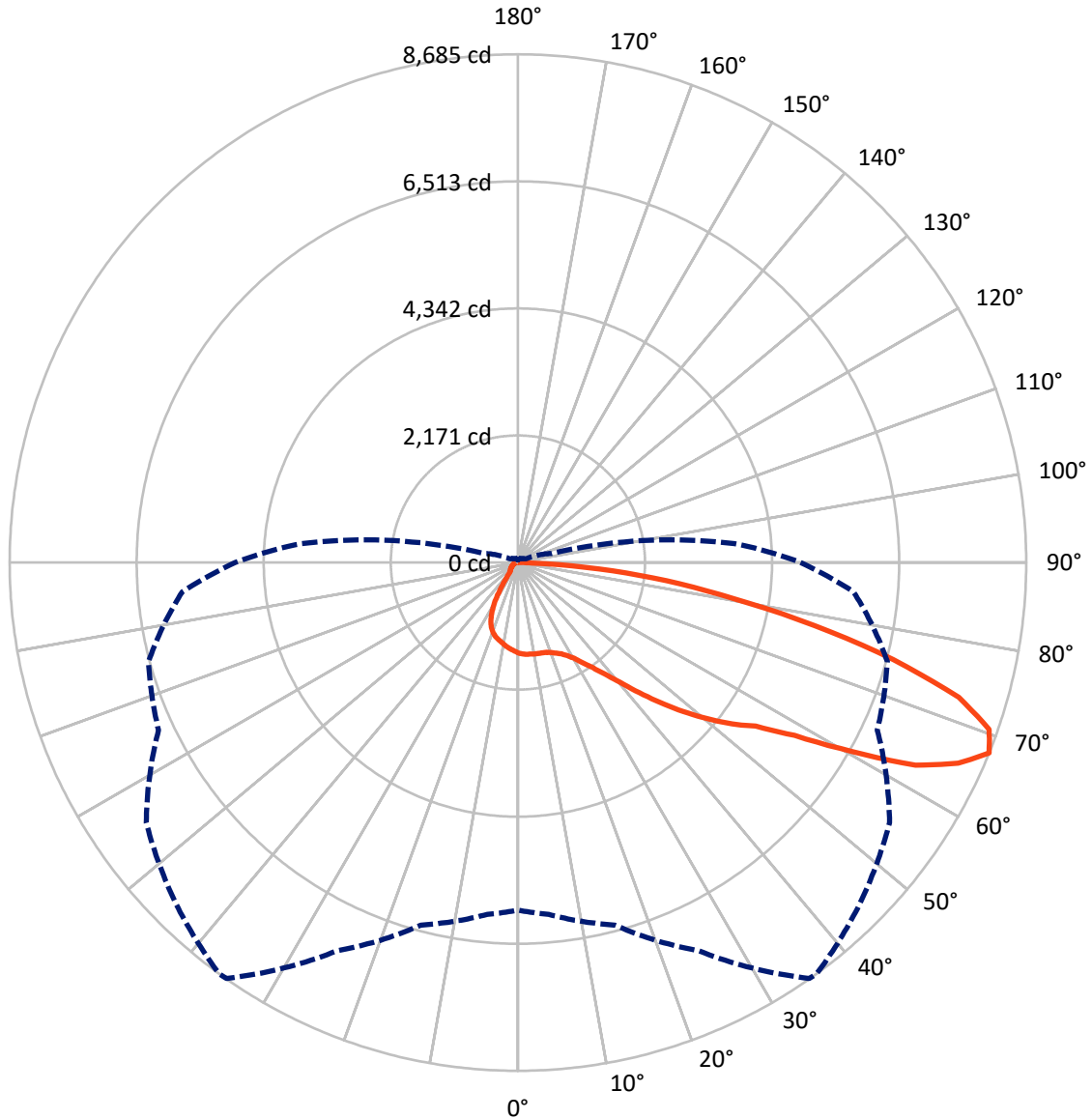
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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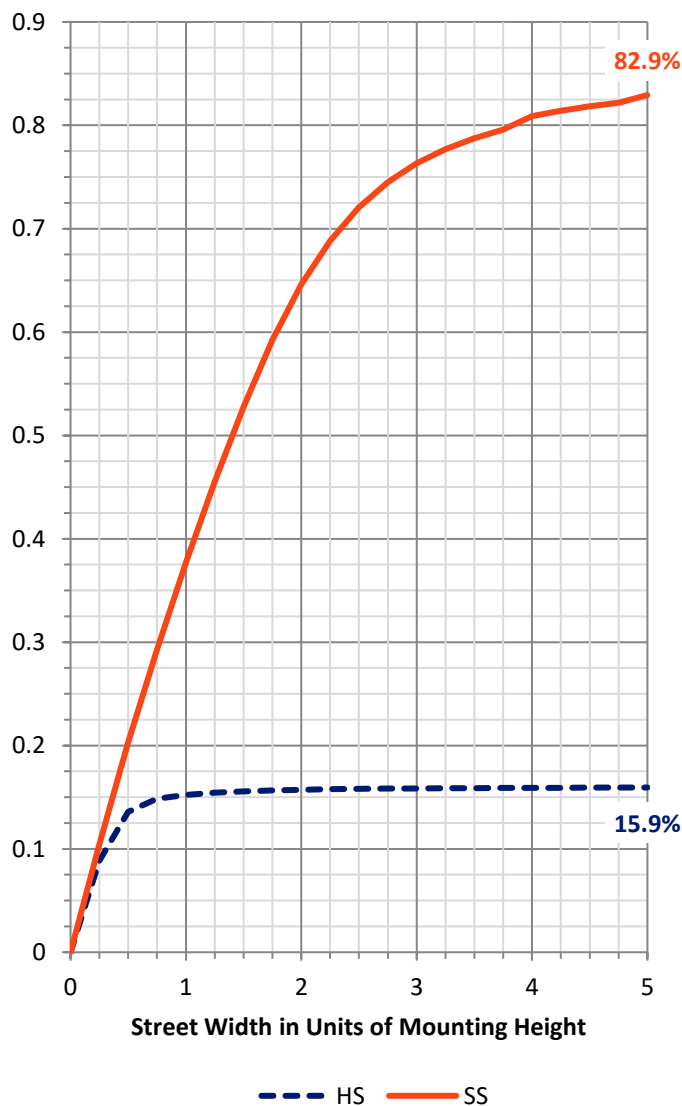
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2258.7	0.0	2258.7
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	11747.3	0.0	11747.3
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	14006.0	0.0	14006.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	1.0
10°-20°	432.8	3.1
20°-30°	715.7	5.1
30°-40°	1135.3	8.1
40°-50°	1959.7	14.0
50°-60°	2904.7	20.7
60°-70°	3755.4	26.8
70°-80°	2535.0	18.1
80°-90°	421.4	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°	14006.0	100.0
0°-180°	14006.0	100.0



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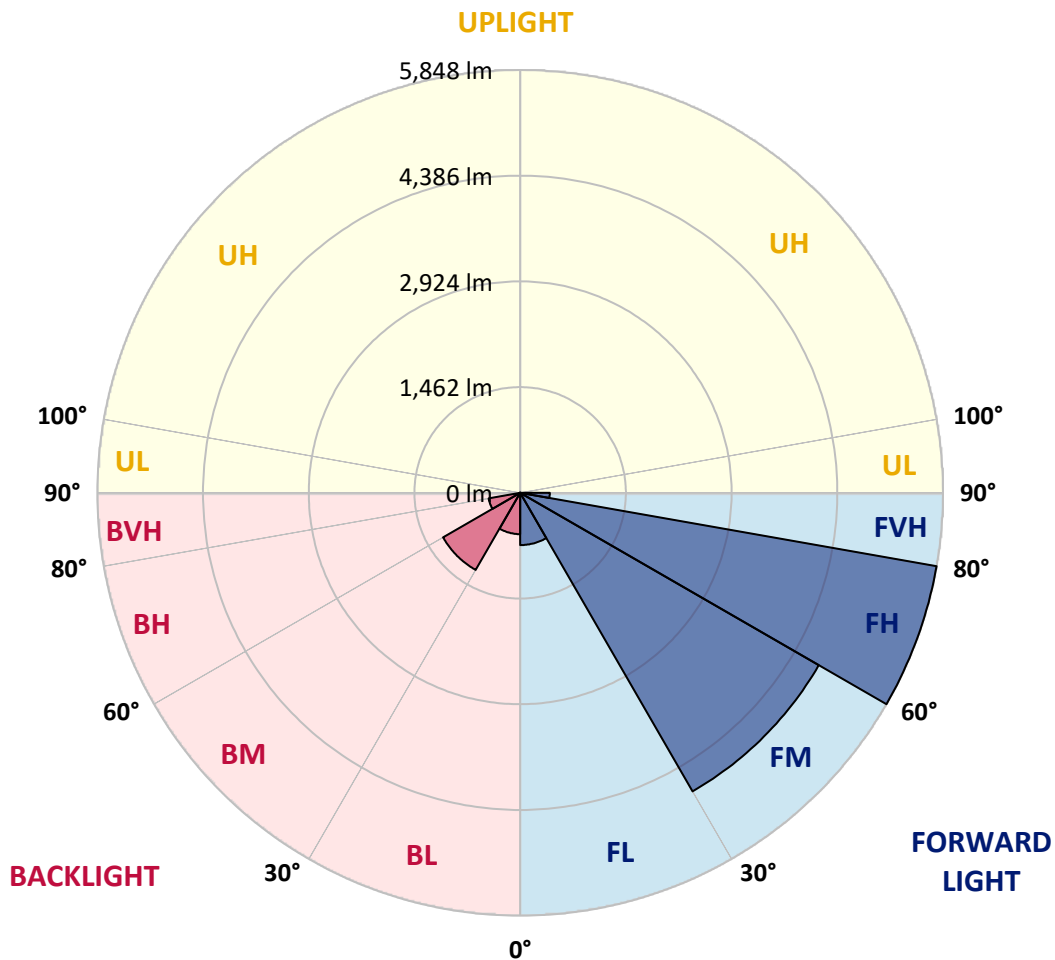
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.0	5.2			
FM	(30°-60°)	4767.4	34.0			
FH	(60°-80°)	5847.5	41.8			G3/7500
FVH	(80°-90°)	409.4	2.9			G3/500
BL	(0°-30°)	571.6	4.1	B2/1000		
BM	(30°-60°)	1232.3	8.8	B2/2500		
BH	(60°-80°)	442.9	3.2	B1/500		G1/500
BVH	(80°-90°)	12.0	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°	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9
2.5°	1554.6	1569.7	1568.0	1566.4	1566.4	1564.7	1554.6	1544.6	1549.6	1547.9	1546.2
5°	1561.3	1576.4	1574.7	1573.1	1573.1	1574.7	1559.7	1547.9	1551.3	1554.6	1552.9
7.5°	1564.7	1578.1	1574.7	1573.1	1571.4	1576.4	1564.7	1566.4	1569.7	1569.7	1569.7
10°	1569.7	1579.8	1579.8	1581.4	1583.1	1588.1	1583.1	1588.1	1601.5	1598.2	1606.6
12.5°	1556.3	1568.0	1573.1	1581.4	1589.8	1593.2	1598.2	1611.6	1628.3	1636.7	1645.1
15°	1551.3	1563.0	1571.4	1581.4	1594.8	1598.2	1611.6	1635.0	1655.1	1671.9	1690.3
17.5°	1568.0	1581.4	1593.2	1599.9	1606.6	1611.6	1625.0	1655.1	1690.3	1720.5	1747.3
20°	1599.9	1613.3	1626.7	1633.4	1638.4	1641.7	1651.8	1680.3	1725.5	1772.4	1810.9
22.5°	1636.7	1650.1	1665.2	1670.2	1681.9	1681.9	1683.6	1712.1	1767.4	1831.0	1877.9
25°	1676.9	1685.3	1698.7	1707.1	1723.8	1727.2	1732.2	1757.3	1826.0	1898.0	1971.8
27.5°	1723.8	1740.6	1754.0	1764.0	1797.5	1799.2	1795.9	1827.7	1894.7	1983.5	2087.4
30°	1809.3	1827.7	1841.1	1857.8	1901.4	1899.7	1921.5	1955.0	1993.5	2090.7	2229.7
32.5°	1945.0	1946.6	1953.3	1975.1	2037.1	2043.8	2085.7	2146.0	2223.0	2285.0	2432.5
35°	2192.9	2184.5	2164.4	2161.1	2202.9	2206.3	2288.4	2415.7	2583.2	2789.3	3017.1
37.5°	2482.7	2504.5	2481.0	2409.0	2415.7	2417.4	2514.5	2677.0	2988.6	3504.6	3720.7
40°	2992.0	3003.7	2858.0	2744.0	2703.8	2685.4	2735.7	2981.9	3380.6	4052.4	4204.9
42.5°	3440.9	3440.9	3305.3	3129.4	3027.2	3040.6	3025.5	3270.1	3782.7	4528.2	4583.5
45°	3889.9	3874.8	3750.9	3603.4	3424.2	3412.5	3373.9	3561.6	4152.9	4869.9	4871.6
47.5°	4308.7	4343.9	4157.9	3995.5	3812.9	3804.5	3735.8	3881.5	4508.1	5169.8	5124.6
50°	4749.3	4797.9	4565.0	4382.4	4184.8	4196.5	4139.5	4241.7	4861.6	5449.6	5367.5
52.5°	5375.9	5285.4	5007.3	4754.3	4550.0	4583.5	4524.8	4585.1	5228.4	5672.4	5501.5
55°	6047.6	5886.8	5655.6	5231.8	4935.3	4931.9	4888.4	4960.4	5598.7	5927.0	5653.9
57.5°	6407.8	6456.4	6402.8	6059.3	5580.2	5571.9	5310.5	5318.9	5938.7	6144.8	5866.7
60°	6818.2	6878.5	6995.8	6781.4	6541.8	6548.5	5896.9	5702.5	6297.2	6319.0	5883.4
62.5°	7036.0	7042.7	7312.4	7387.8	7582.1	7625.7	7131.5	6171.6	6535.1	6453.0	5911.9
65°	6650.7	6662.4	7181.8	7562.0	8210.4	8269.0	8056.2	7079.6	6712.7	6523.4	5885.1
67.5°	5938.7	6034.2	6412.8	7320.8	8676.1	8684.5	8255.6	7751.3	6774.7	6533.4	5756.1
70°	4977.1	4943.6	5422.8	6513.3	8604.0	8542.1	8168.5	7828.4	6729.4	6396.1	5168.1
72.5°	3690.6	3640.3	4134.5	5236.8	7761.4	7878.7	7778.1	7377.8	6558.6	5883.4	4194.8
75°	2526.3	2584.9	3028.8	3948.5	6446.3	6623.9	7067.8	7029.3	5834.9	4876.6	2871.4
77.5°	1728.8	1754.0	2134.3	2938.4	5109.5	5178.2	5913.6	5679.1	4290.3	2997.0	958.2
80°	1125.8	1117.4	1459.1	2092.4	3745.8	3737.5	4223.3	3593.4	2311.8	1021.9	132.3
82.5°	628.2	665.1	874.5	1375.4	2531.3	2558.1	2636.8	1965.1	889.6	118.9	83.8
85°	353.5	368.6	502.6	779.0	1326.8	1393.8	1176.0	722.0	159.1	65.3	48.6
87.5°	83.8	80.4	160.8	298.2	221.1	239.6	113.9	33.5	16.8	11.7	11.7
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°	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9	1547.9
2.5°	1546.2	1542.9	1539.5	1532.8	1527.8	1512.7	1514.4	1524.5	1514.4	1531.2	1521.1
5°	1549.6	1544.6	1536.2	1516.1	1501.0	1489.3	1485.9	1484.3	1470.9	1485.9	1479.2
7.5°	1563.0	1558.0	1539.5	1517.8	1496.0	1460.8	1455.8	1449.1	1424.0	1434.0	1425.6
10°	1594.8	1588.1	1556.3	1526.1	1492.6	1445.7	1418.9	1398.8	1370.3	1373.7	1365.3
12.5°	1635.0	1628.3	1591.5	1541.2	1494.3	1429.0	1382.1	1343.5	1301.7	1301.7	1293.3
15°	1681.9	1675.2	1633.4	1574.7	1501.0	1415.6	1345.2	1283.2	1216.2	1207.8	1197.8
17.5°	1745.6	1735.6	1687.0	1611.6	1519.4	1403.9	1308.4	1216.2	1114.0	1082.2	1065.5
20°	1810.9	1799.2	1757.3	1663.5	1544.6	1392.1	1254.8	1129.1	996.8	931.4	919.7
22.5°	1894.7	1891.3	1839.4	1708.7	1552.9	1367.0	1187.7	1031.9	854.4	763.9	745.5
25°	1993.5	1988.5	1908.1	1743.9	1542.9	1316.7	1092.3	892.9	693.6	603.1	583.0
27.5°	2110.8	2097.4	1966.7	1752.3	1514.4	1238.0	970.0	713.7	512.6	435.6	420.5
30°	2234.8	2214.7	2028.7	1754.0	1457.5	1140.8	809.1	524.4	363.5	308.2	308.2
32.5°	2442.5	2373.8	2089.0	1730.5	1375.4	1001.8	616.5	353.5	254.6	232.9	232.9
35°	2888.1	2723.9	2184.5	1700.4	1268.2	829.2	418.8	239.6	212.8	212.8	211.1
37.5°	3556.5	3251.6	2347.0	1650.1	1122.4	616.5	276.4	197.7	202.7	202.7	202.7
40°	3983.7	3663.8	2568.1	1571.4	954.9	418.8	197.7	187.6	191.0	194.3	194.3
42.5°	4382.4	4022.3	2789.3	1462.5	770.6	268.0	184.3	175.9	177.6	177.6	179.3
45°	4635.4	4288.6	2953.5	1346.9	567.9	191.0	180.9	165.8	160.8	160.8	164.2
47.5°	4869.9	4462.8	3025.5	1194.4	366.9	179.3	172.5	154.1	147.4	145.7	145.7
50°	5104.5	4642.1	3065.7	1013.5	229.5	172.5	159.1	140.7	134.0	132.3	132.3
52.5°	5208.3	4699.1	2975.2	809.1	170.9	165.8	149.1	129.0	118.9	118.9	118.9
55°	5317.2	4804.6	2822.8	579.6	162.5	154.1	137.4	115.6	107.2	110.6	110.6
57.5°	5437.8	4729.2	2660.3	376.9	160.8	139.0	122.3	103.9	97.2	100.5	102.2
60°	5401.0	4747.6	2427.4	253.0	154.1	127.3	110.6	92.1	87.1	87.1	87.1
62.5°	5401.0	4605.2	2045.5	192.7	140.7	117.3	102.2	85.4	77.1	73.7	70.4
65°	5258.6	4268.5	1494.3	167.5	125.6	108.9	92.1	75.4	65.3	60.3	58.6
67.5°	4828.0	3710.7	601.4	152.4	115.6	100.5	85.4	68.7	57.0	50.3	48.6
70°	4104.3	2739.0	172.5	135.7	117.3	93.8	80.4	60.3	50.3	41.9	40.2
72.5°	3042.2	1447.4	140.7	107.2	103.9	80.4	75.4	57.0	43.6	35.2	33.5
75°	1536.2	197.7	120.6	77.1	80.4	83.8	72.0	50.3	40.2	28.5	26.8
77.5°	159.1	117.3	105.5	51.9	57.0	58.6	62.0	46.9	35.2	23.5	21.8
80°	98.8	88.8	103.9	45.2	33.5	40.2	41.9	36.9	28.5	18.4	18.4
82.5°	70.4	75.4	77.1	28.5	25.1	23.5	21.8	21.8	25.1	16.8	16.8
85°	48.6	50.3	31.8	18.4	16.8	15.1	13.4	13.4	11.7	13.4	11.7
87.5°	11.7	10.1	10.1	10.1	8.4	8.4	6.7	6.7	6.7	6.7	8.4
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)