

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: P507600

Luminaire Tested: **VERD-S-CA1-50-750-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-50-750-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 940mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6987 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

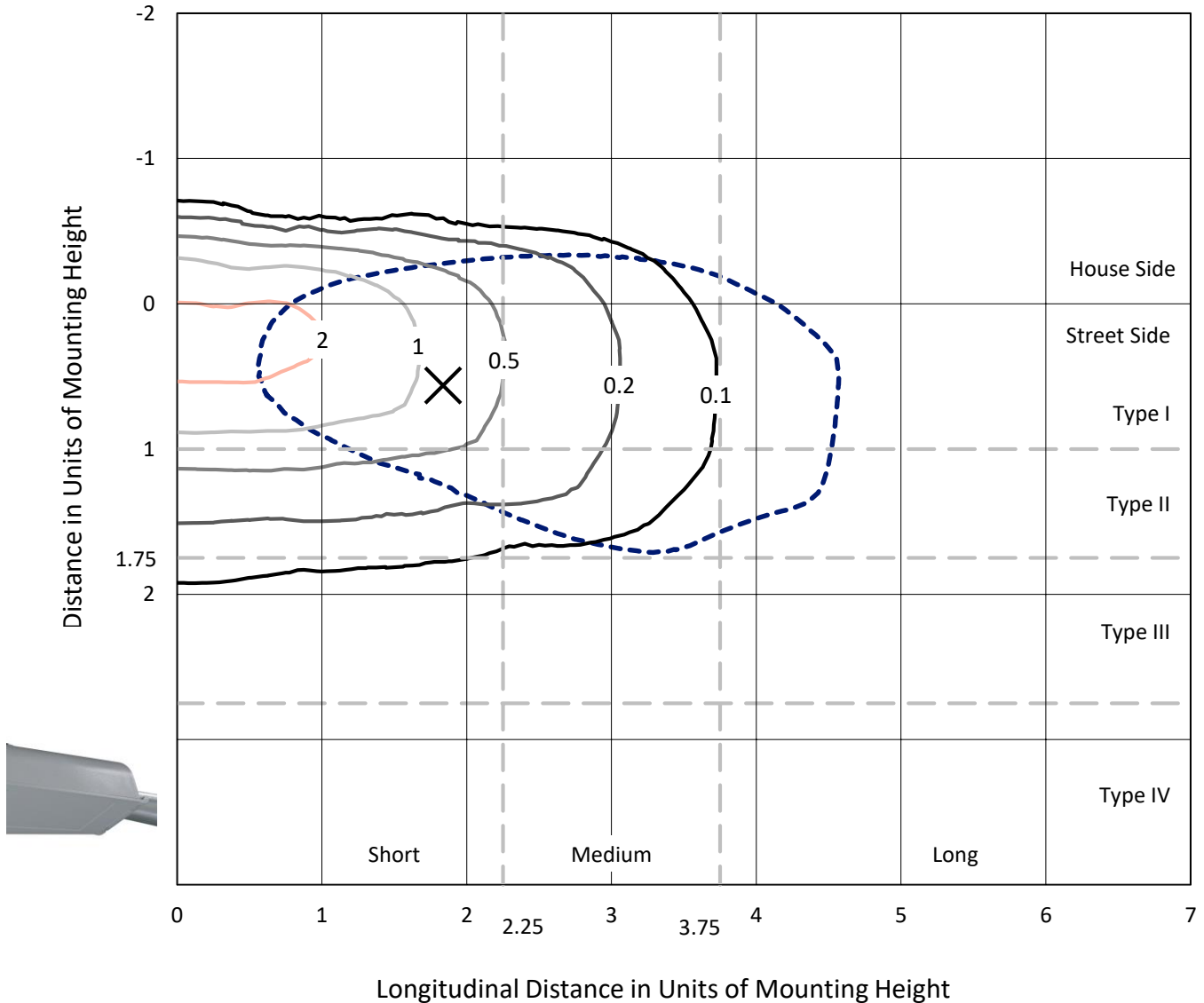
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

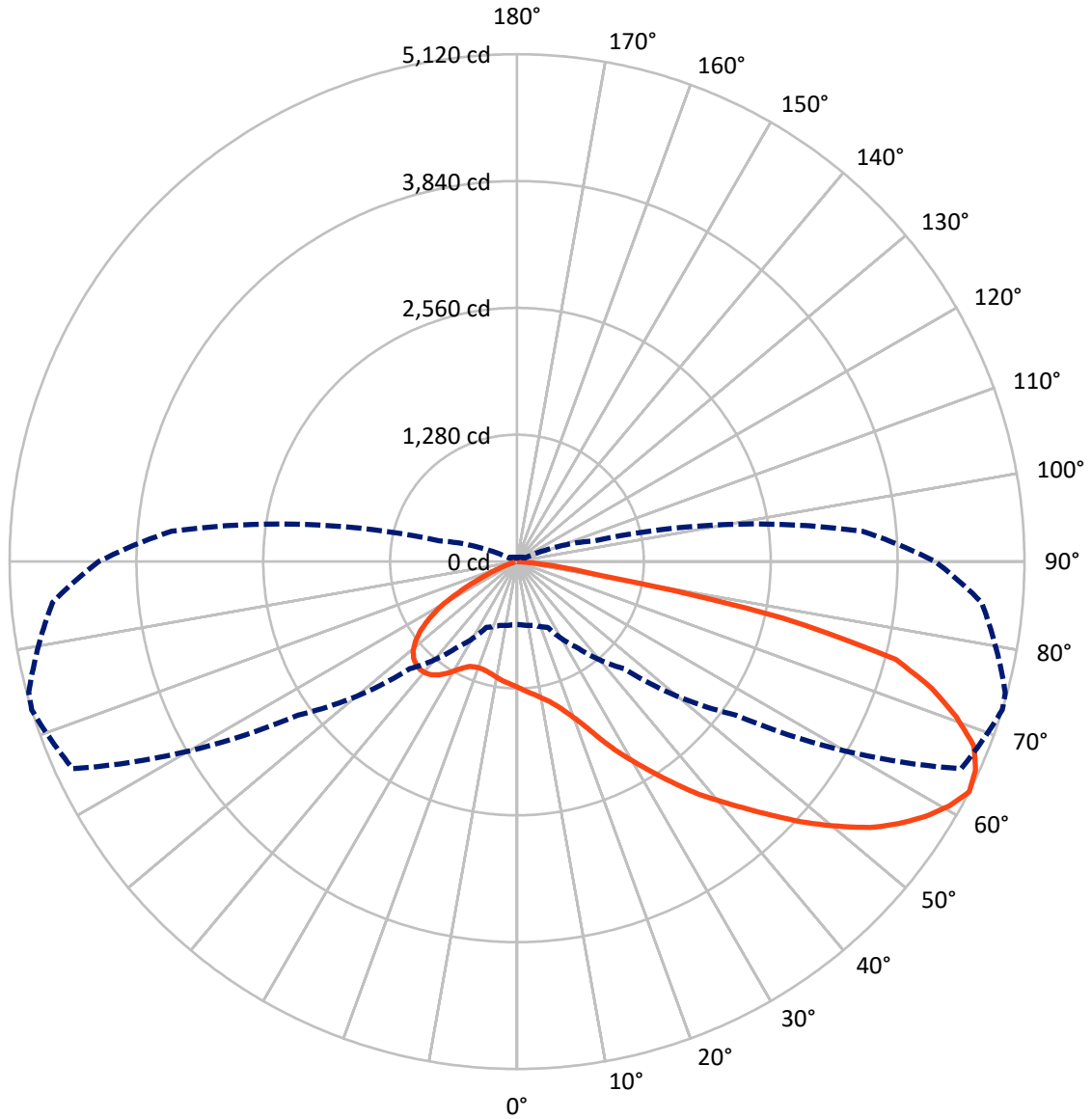
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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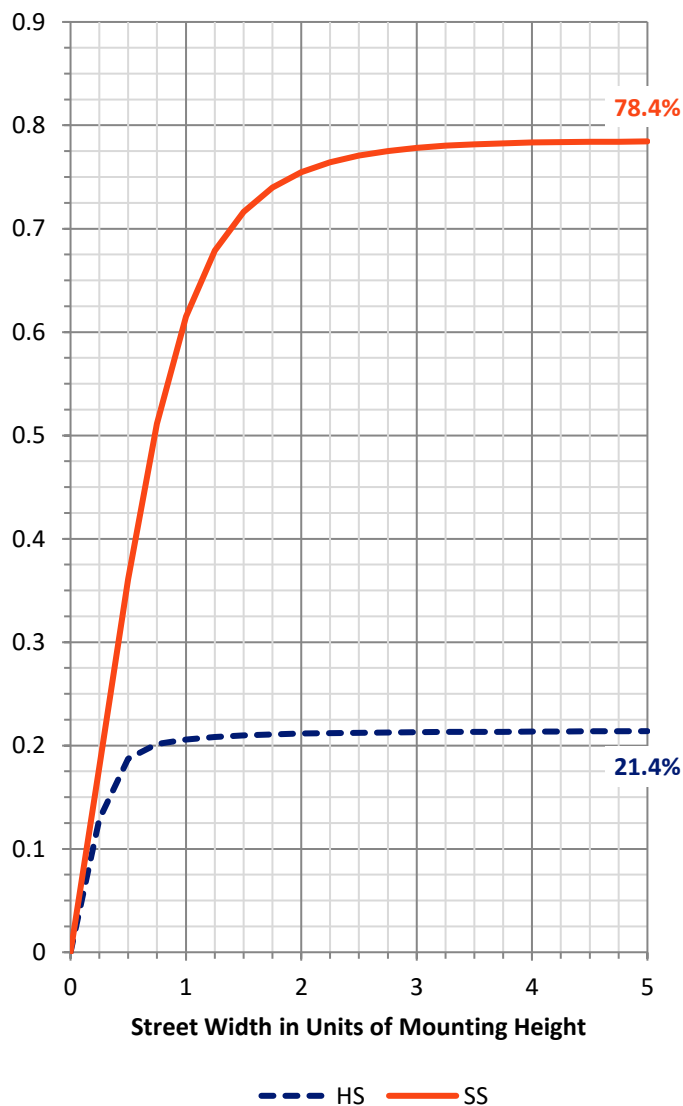
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1513.4	0.0	1513.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5473.6	0.0	5473.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	6987.0	0.0	6987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.7
10°-20°	365.4	5.2
20°-30°	632.1	9.0
30°-40°	928.3	13.3
40°-50°	1206.6	17.3
50°-60°	1399.0	20.0
60°-70°	1407.9	20.2
70°-80°	858.0	12.3
80°-90°	68.3	1.0
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°	6987.0	100.0
0°-180°	6987.0	100.0

**Coefficient of Utilization**



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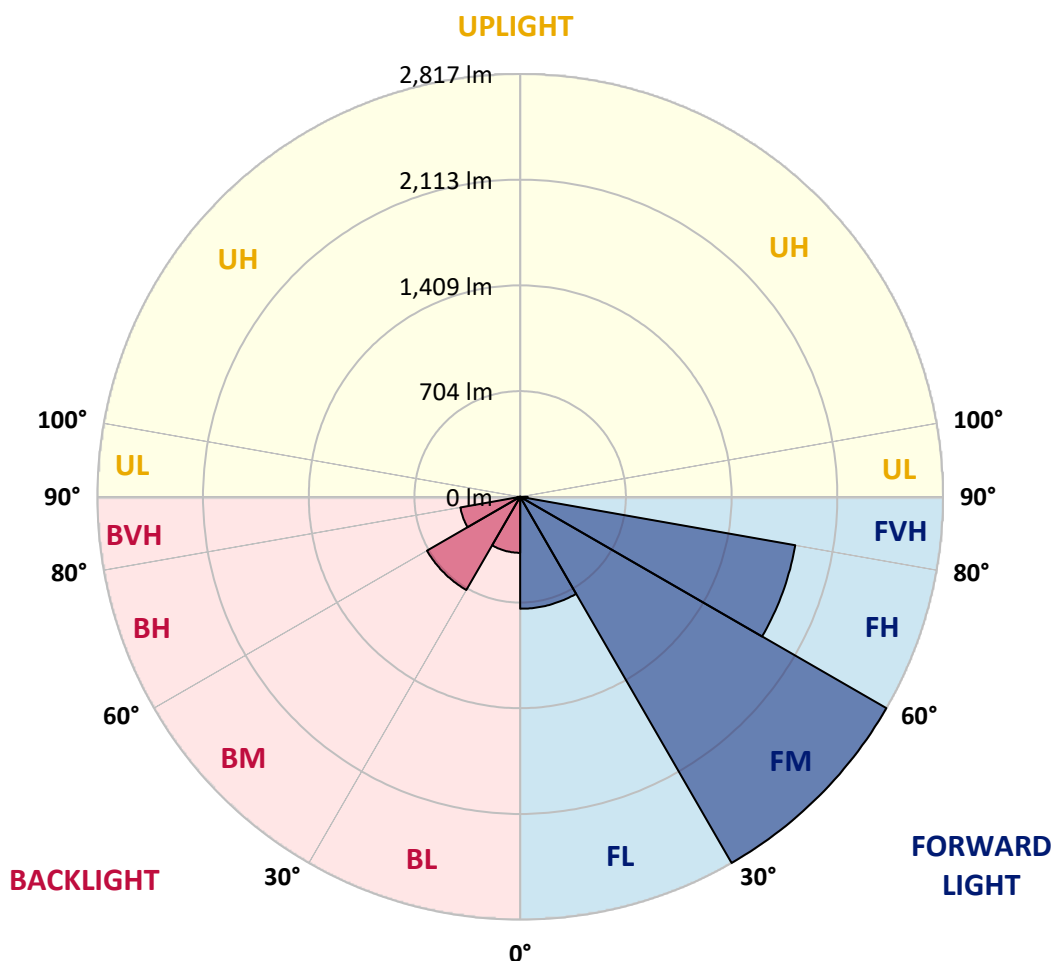
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.8	10.7			
FM (30°-60°)	2817.0	40.3			
FH (60°-80°)	1861.2	26.6			G2/5000
FVH (80°-90°)	49.6	0.7			G1/100
BL (0°-30°)	373.1	5.3	B1/500		
BM (30°-60°)	716.9	10.3	B1/1000		
BH (60°-80°)	404.7	5.8	B1/500		G1/500
BVH (80°-90°)	18.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1354.6	1354.6	1352.4	1350.3	1341.8	1333.2	1320.4	1309.8	1299.1	1294.8	1277.8
5°	1433.5	1433.5	1431.4	1422.8	1412.2	1397.2	1375.9	1348.2	1329.0	1326.8	1297.0
7.5°	1499.6	1497.5	1495.4	1491.1	1480.4	1461.2	1429.2	1393.0	1361.0	1352.4	1316.2
10°	1563.6	1565.8	1561.5	1550.8	1538.0	1514.6	1482.6	1439.9	1401.5	1388.7	1333.2
12.5°	1631.9	1629.8	1623.4	1610.6	1593.5	1574.3	1540.2	1497.5	1446.3	1433.5	1361.0
15°	1689.5	1691.6	1681.0	1672.4	1655.4	1634.0	1604.2	1561.5	1510.3	1495.4	1401.5
17.5°	1740.7	1740.7	1738.5	1734.3	1721.5	1706.5	1676.7	1646.8	1593.5	1570.0	1463.4
20°	1779.1	1781.2	1785.5	1794.0	1796.1	1783.3	1768.4	1747.1	1695.9	1672.4	1540.2
22.5°	1813.2	1817.5	1834.5	1860.1	1881.5	1881.5	1879.3	1877.2	1826.0	1811.1	1653.2
25°	1821.7	1828.1	1866.5	1922.0	1956.1	1983.9	2022.3	2037.2	1998.8	1973.2	1800.4
27.5°	1834.5	1840.9	1883.6	1949.7	2035.1	2096.9	2165.2	2203.6	2175.9	2150.3	1968.9
30°	1823.9	1832.4	1879.3	1973.2	2086.3	2216.4	2301.7	2359.3	2350.8	2335.8	2143.9
32.5°	1796.1	1804.7	1860.1	1975.3	2148.1	2338.0	2434.0	2523.6	2547.0	2534.2	2327.3
35°	1740.7	1749.2	1817.5	1958.3	2178.0	2429.7	2566.2	2698.5	2751.8	2743.3	2527.8
37.5°	1670.3	1670.3	1751.3	1907.1	2188.7	2500.1	2683.5	2873.4	2977.9	2965.1	2730.5
40°	1553.0	1574.3	1674.6	1851.6	2171.6	2551.3	2796.6	3054.7	3184.8	3178.4	2950.2
42.5°	1435.6	1452.7	1548.7	1755.6	2131.1	2581.2	2890.5	3244.6	3413.1	3408.8	3161.4
45°	1331.1	1343.9	1422.8	1623.4	2045.7	2589.7	2980.1	3447.2	3664.8	3656.3	3376.8
47.5°	1196.7	1222.3	1322.6	1499.6	1928.4	2564.1	3063.3	3701.1	3937.9	3929.3	3609.4
50°	906.6	923.7	1132.7	1399.4	1776.9	2500.1	3131.5	3950.7	4196.0	4178.9	3820.5
52.5°	823.4	834.1	900.2	1275.6	1636.2	2384.9	3174.2	4249.3	4458.4	4430.6	4038.1
55°	770.1	778.6	817.0	1021.8	1512.4	2190.8	3187.0	4530.9	4669.5	4641.8	4238.6
57.5°	723.2	727.4	765.8	870.3	1365.2	1945.5	3142.2	4739.9	4855.1	4825.3	4411.4
60°	674.1	680.5	716.8	793.5	1188.2	1719.3	3003.5	4906.3	5008.7	4983.1	4562.9
62.5°	633.6	642.1	665.6	731.7	1060.2	1527.4	2700.6	4944.7	5119.6	5100.5	4703.7
65°	584.5	590.9	620.8	676.2	927.9	1407.9	2393.4	4831.7	5083.4	5106.9	4782.6
67.5°	526.9	533.3	558.9	601.6	778.6	1282.0	2124.7	4671.7	4972.5	5004.5	4725.0
70°	456.5	460.8	486.4	526.9	646.4	1117.8	1843.1	4437.0	4703.7	4727.1	4496.8
72.5°	379.7	379.7	398.9	445.8	531.2	925.8	1478.3	3942.1	4375.2	4432.8	4110.7
75°	160.0	168.5	202.7	245.3	339.2	676.2	1011.1	3035.5	3946.4	3995.5	3630.7
77.5°	32.0	34.1	38.4	57.6	89.6	294.4	313.6	1324.7	2739.0	2771.0	2651.6
80°	25.6	25.6	27.7	42.7	59.7	136.5	102.4	433.0	853.3	1098.6	1416.4
82.5°	8.5	10.7	14.9	23.5	29.9	29.9	34.1	217.6	422.4	454.4	571.7
85°	4.3	4.3	6.4	8.5	8.5	8.5	8.5	38.4	72.5	87.5	121.6
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	2.1	4.3	6.4	6.4	8.5
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°	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1269.2	1262.8	1247.9	1237.2	1222.3	1209.5	1194.6	1186.1	1181.8	1179.7	1175.4
5°	1279.9	1262.8	1233.0	1201.0	1173.3	1151.9	1122.1	1107.1	1098.6	1094.3	1092.2
7.5°	1292.7	1271.4	1220.2	1171.1	1122.1	1085.8	1049.5	1026.1	1015.4	1013.3	1011.1
10°	1301.2	1267.1	1198.9	1145.5	1081.5	1023.9	981.3	953.5	938.6	936.5	934.3
12.5°	1318.3	1273.5	1181.8	1105.0	1038.9	964.2	919.4	887.4	872.5	859.7	859.7
15°	1346.0	1288.4	1173.3	1070.9	983.4	910.9	853.3	819.1	808.5	791.4	787.1
17.5°	1393.0	1316.2	1166.9	1036.7	932.2	859.7	791.4	755.1	748.7	733.8	725.3
20°	1450.6	1356.7	1171.1	1004.7	878.9	795.7	727.4	691.2	669.8	657.0	652.8
22.5°	1542.3	1416.4	1186.1	981.3	831.9	738.1	665.6	608.0	561.0	544.0	544.0
25°	1672.4	1518.8	1211.7	962.1	785.0	682.6	593.0	494.9	433.0	409.6	403.2
27.5°	1819.6	1649.0	1271.4	945.0	746.6	620.8	488.5	379.7	313.6	292.2	292.2
30°	1988.1	1785.5	1343.9	934.3	699.7	526.9	369.0	277.3	224.0	200.5	198.4
32.5°	2154.5	1926.3	1429.2	925.8	650.6	411.7	266.6	202.7	157.9	140.8	142.9
35°	2320.9	2064.9	1501.8	925.8	569.6	296.5	189.9	140.8	113.1	104.5	104.5
37.5°	2508.6	2220.6	1559.4	913.0	448.0	211.2	130.1	102.4	93.9	89.6	89.6
40°	2702.7	2365.7	1597.8	885.3	320.0	145.1	91.7	89.6	85.3	78.9	76.8
42.5°	2884.1	2532.1	1621.2	831.9	209.1	96.0	81.1	83.2	81.1	70.4	68.3
45°	3076.1	2666.5	1634.0	725.3	138.7	78.9	72.5	76.8	78.9	70.4	68.3
47.5°	3268.0	2813.7	1642.6	565.3	91.7	76.8	68.3	74.7	76.8	68.3	66.1
50°	3470.7	2948.1	1629.8	362.6	81.1	72.5	66.1	68.3	72.5	68.3	66.1
52.5°	3647.8	3069.7	1570.0	202.7	78.9	70.4	61.9	64.0	70.4	66.1	66.1
55°	3829.1	3189.1	1459.1	119.5	76.8	66.1	61.9	64.0	66.1	61.9	64.0
57.5°	3993.3	3304.3	1292.7	98.1	76.8	64.0	64.0	59.7	59.7	55.5	55.5
60°	4119.2	3408.8	1094.3	91.7	72.5	66.1	59.7	55.5	51.2	46.9	46.9
62.5°	4219.4	3498.4	812.7	85.3	70.4	64.0	55.5	49.1	42.7	38.4	38.4
65°	4274.9	3517.6	573.8	76.8	66.1	61.9	51.2	42.7	34.1	32.0	32.0
67.5°	4210.9	3417.4	349.8	72.5	61.9	59.7	49.1	38.4	29.9	27.7	27.7
70°	3965.6	3148.6	196.3	66.1	55.5	53.3	44.8	34.1	27.7	23.5	23.5
72.5°	3560.3	2753.9	98.1	55.5	46.9	46.9	40.5	29.9	25.6	21.3	21.3
75°	3007.8	2259.0	70.4	40.5	38.4	38.4	34.1	27.7	23.5	19.2	19.2
77.5°	2203.6	1489.0	57.6	34.1	27.7	27.7	29.9	25.6	21.3	17.1	17.1
80°	1141.3	738.1	49.1	25.6	23.5	21.3	21.3	21.3	17.1	14.9	14.9
82.5°	505.6	283.7	32.0	19.2	19.2	17.1	17.1	17.1	14.9	12.8	12.8
85°	98.1	53.3	17.1	14.9	12.8	12.8	12.8	10.7	10.7	10.7	10.7
87.5°	8.5	8.5	8.5	8.5	8.5	6.4	6.4	6.4	6.4	6.4	6.4
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)