

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: P507664

Luminaire Tested: **VERD-S-CA1-70-722-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507664  
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-CA1-70-722-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1330mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7435 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

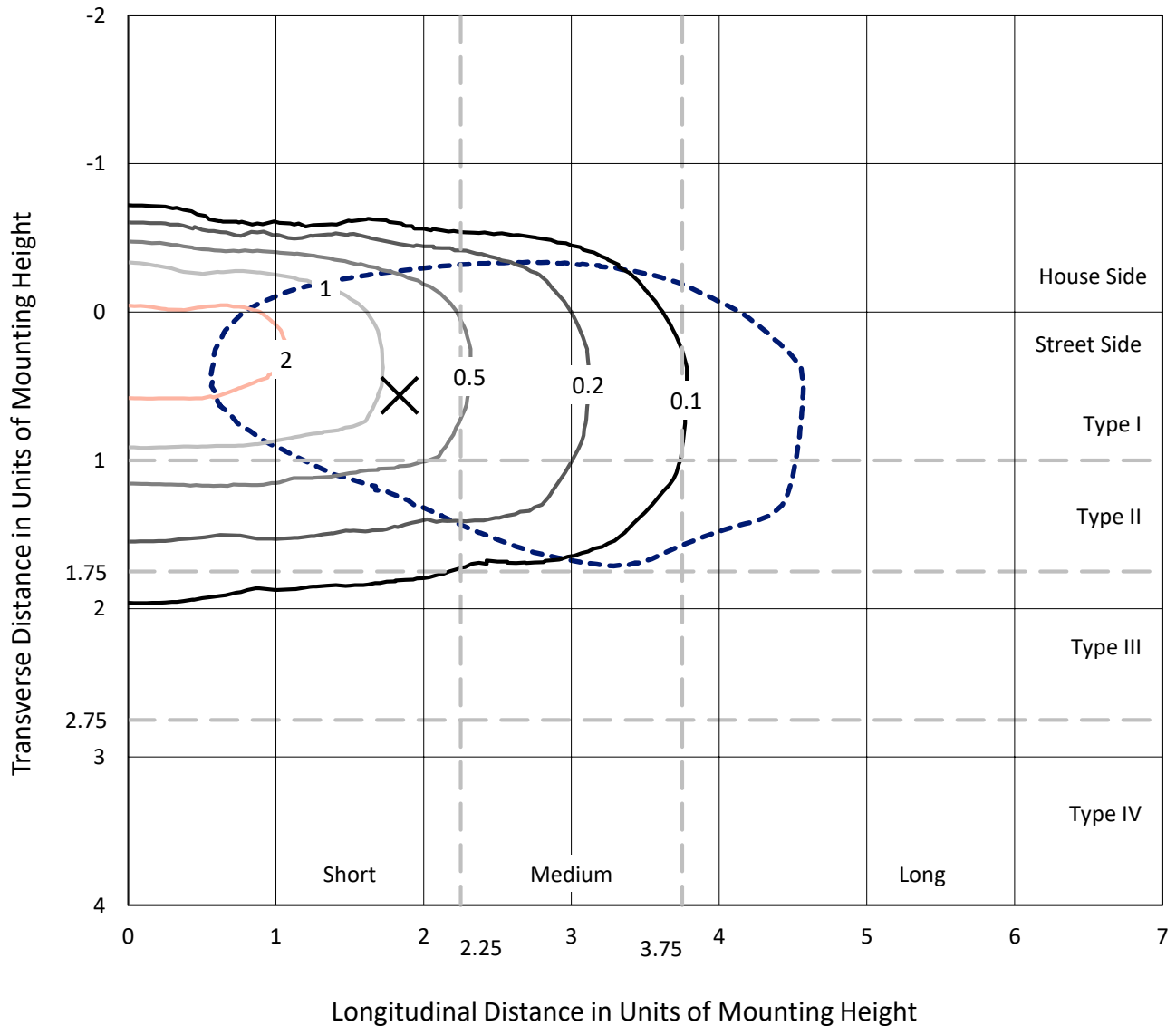
Input Watts (W): 73.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P507664  
 CATALOG NUMBER: VERD-S-CA1-70-722-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

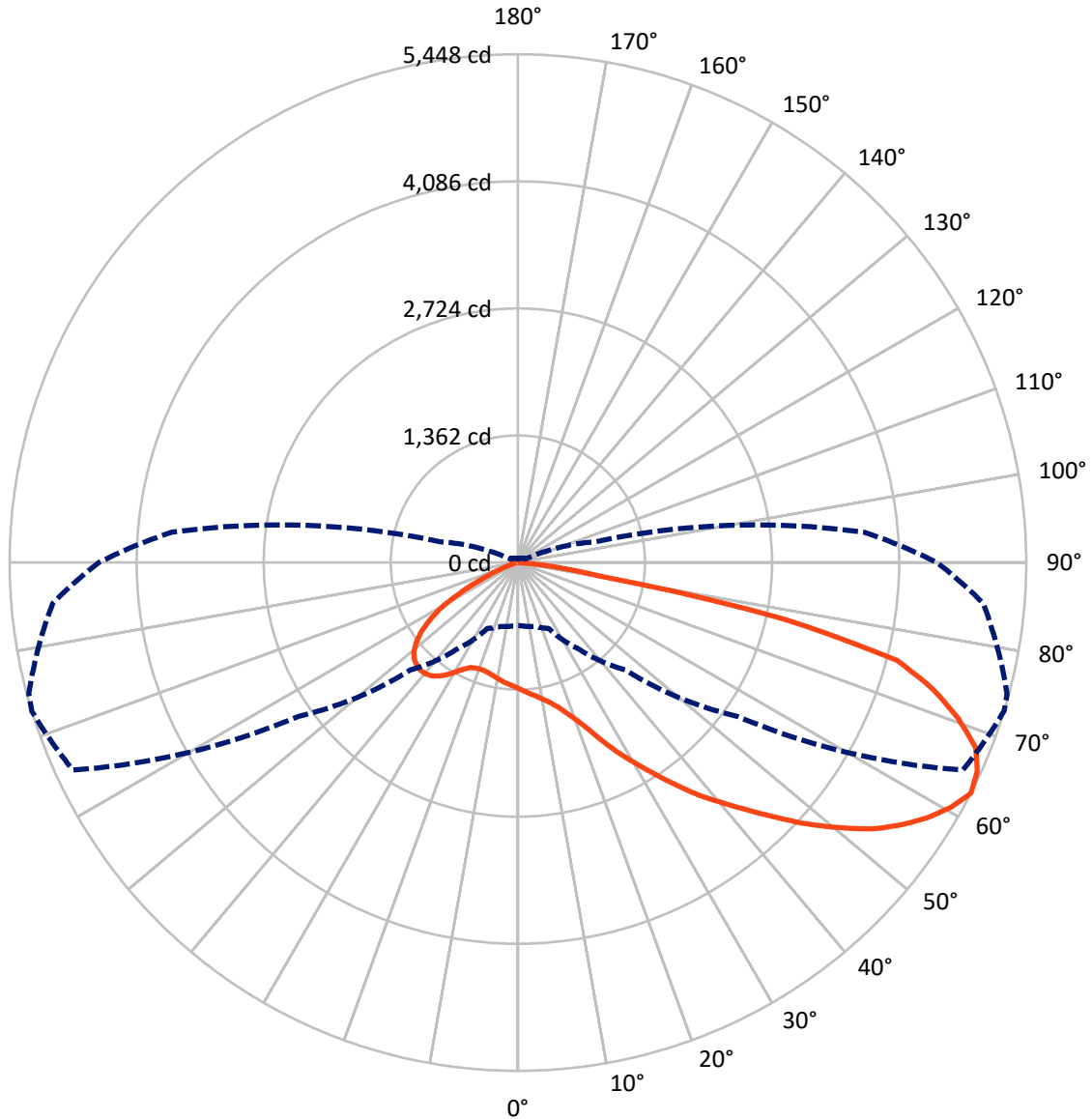
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P507664  
CATALOG NUMBER: VERD-S-CA1-70-722-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P507664  
 CATALOG NUMBER: VERD-S-CA1-70-722-U-T2-HSS

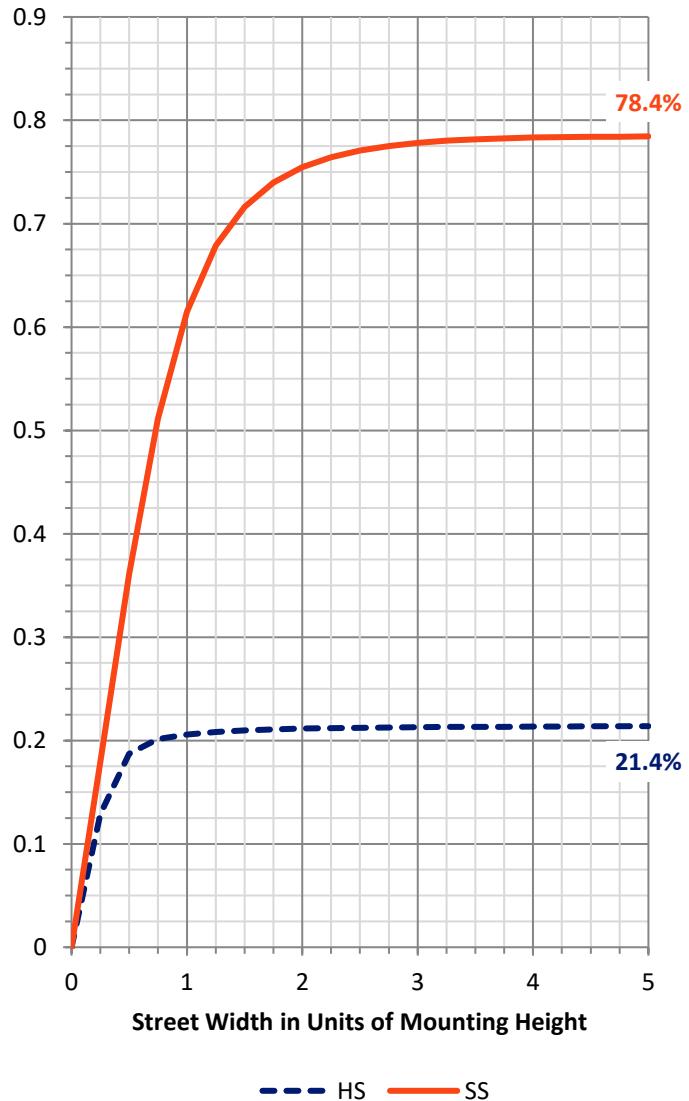
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1610.4	0.0	1610.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5824.6	0.0	5824.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	7435.0	0.0	7435.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.2	1.7
10°-20°	388.9	5.2
20°-30°	672.6	9.0
30°-40°	987.8	13.3
40°-50°	1284.0	17.3
50°-60°	1488.7	20.0
60°-70°	1498.2	20.2
70°-80°	913.0	12.3
80°-90°	72.7	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°	7435.0	100.0
0°-180°	7435.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507664

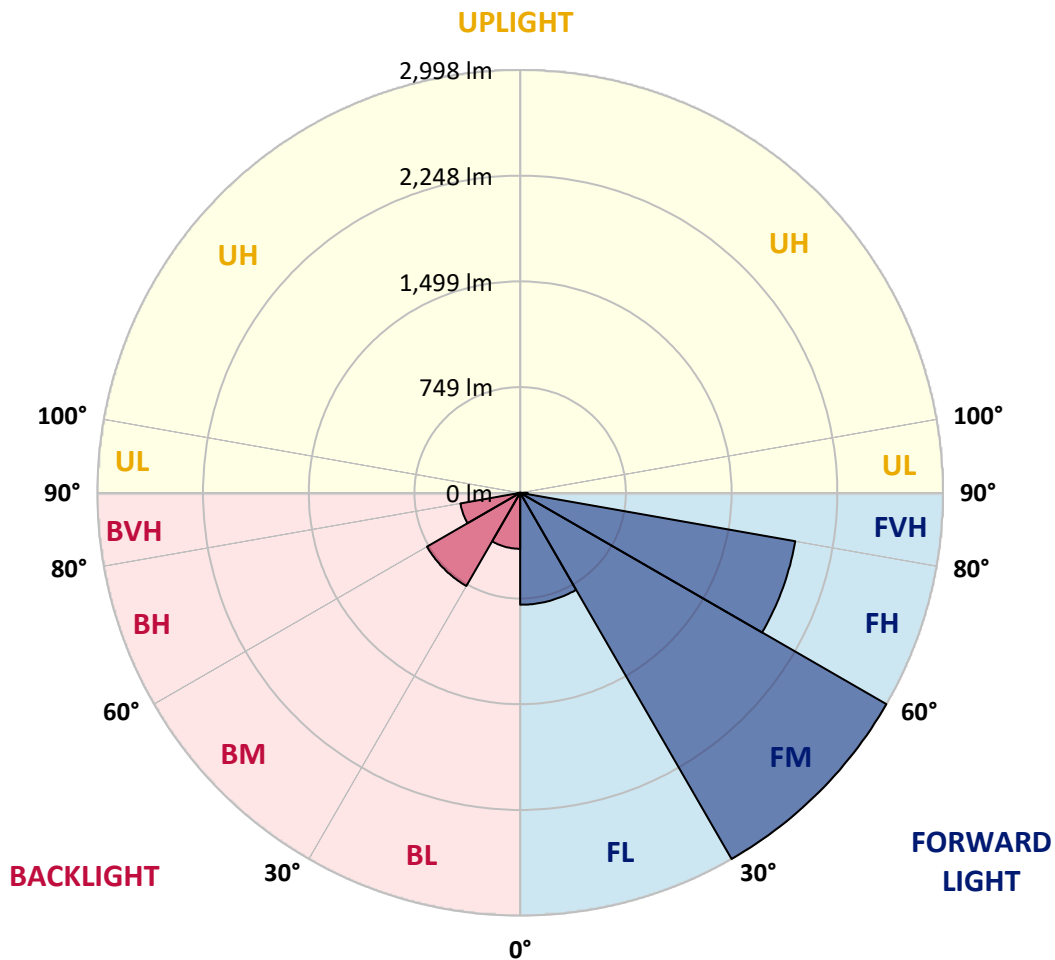
CATALOG NUMBER: VERD-S-CA1-70-722-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.6	10.7			
FM (30°-60°)	2997.6	40.3			
FH (60°-80°)	1980.5	26.6			G2/5000
FVH (80°-90°)	52.8	0.7			G1/100
BL (0°-30°)	397.0	5.3	B1/500		
BM (30°-60°)	762.9	10.3	B1/1000		
BH (60°-80°)	430.7	5.8	B1/500		G1/500
BVH (80°-90°)	19.9	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





REPORT NUMBER: P507664

CATALOG NUMBER: VERD-S-CA1-70-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1441.4	1441.4	1439.2	1436.9	1427.8	1418.7	1405.1	1393.8	1382.4	1377.9	1359.7
5°	1525.4	1525.4	1523.1	1514.1	1502.7	1486.8	1464.1	1434.6	1414.2	1411.9	1380.1
7.5°	1595.8	1593.5	1591.2	1586.7	1575.4	1554.9	1520.9	1482.3	1448.2	1439.2	1400.6
10°	1663.9	1666.2	1661.6	1650.3	1636.6	1611.7	1577.6	1532.2	1491.4	1477.7	1418.7
12.5°	1736.5	1734.3	1727.4	1713.8	1695.7	1675.2	1638.9	1593.5	1539.0	1525.4	1448.2
15°	1797.8	1800.1	1788.7	1779.7	1761.5	1738.8	1707.0	1661.6	1607.1	1591.2	1491.4
17.5°	1852.3	1852.3	1850.0	1845.5	1831.9	1816.0	1784.2	1752.4	1695.7	1670.7	1557.2
20°	1893.2	1895.4	1900.0	1909.0	1911.3	1897.7	1881.8	1859.1	1804.6	1779.7	1638.9
22.5°	1929.5	1934.0	1952.2	1979.4	2002.1	2002.1	1999.8	1997.6	1943.1	1927.2	1759.2
25°	1938.6	1945.4	1986.2	2045.2	2081.6	2111.1	2151.9	2167.8	2127.0	2099.7	1915.9
27.5°	1952.2	1959.0	2004.4	2074.7	2165.5	2231.4	2304.0	2344.9	2315.4	2288.1	2095.2
30°	1940.8	1949.9	1999.8	2099.7	2220.0	2358.5	2449.3	2510.6	2501.5	2485.6	2281.3
32.5°	1911.3	1920.4	1979.4	2102.0	2285.9	2487.9	2590.0	2685.4	2710.3	2696.7	2476.5
35°	1852.3	1861.4	1934.0	2083.8	2317.6	2585.5	2730.8	2871.5	2928.3	2919.2	2689.9
37.5°	1777.4	1777.4	1863.6	2029.3	2329.0	2660.4	2855.6	3057.6	3168.9	3155.3	2905.6
40°	1652.5	1675.2	1781.9	1970.3	2310.8	2714.9	2975.9	3250.6	3389.1	3382.2	3139.4
42.5°	1527.7	1545.8	1648.0	1868.2	2267.7	2746.7	3075.8	3452.6	3631.9	3627.4	3364.1
45°	1416.5	1430.1	1514.1	1727.4	2176.9	2755.7	3171.1	3668.3	3899.8	3890.7	3593.4
47.5°	1273.5	1300.7	1407.4	1595.8	2052.0	2728.5	3259.7	3938.4	4190.4	4181.3	3840.8
50°	964.7	982.9	1205.4	1489.1	1890.9	2660.4	3332.3	4204.0	4465.0	4446.9	4065.5
52.5°	876.2	887.6	957.9	1357.4	1741.1	2537.8	3377.7	4521.8	4744.2	4714.7	4297.0
55°	819.5	828.5	869.4	1087.3	1609.4	2331.3	3391.3	4821.4	4969.0	4939.4	4510.4
57.5°	769.5	774.1	814.9	926.1	1452.8	2070.2	3343.7	5043.9	5166.4	5134.7	4694.3
60°	717.3	724.1	762.7	844.4	1264.4	1829.6	3196.1	5220.9	5329.9	5302.6	4855.5
62.5°	674.2	683.3	708.2	778.6	1128.2	1625.3	2873.8	5261.8	5447.9	5427.5	5005.3
65°	622.0	628.8	660.6	719.6	987.4	1498.2	2546.9	5141.5	5409.3	5434.3	5089.3
67.5°	560.7	567.5	594.7	640.1	828.5	1364.2	2260.9	4971.2	5291.3	5325.3	5028.0
70°	485.8	490.3	517.6	560.7	687.8	1189.5	1961.3	4721.5	5005.3	5030.2	4785.1
72.5°	404.1	404.1	424.5	474.4	565.2	985.2	1573.1	4194.9	4655.7	4717.0	4374.2
75°	170.2	179.3	215.6	261.0	360.9	719.6	1076.0	3230.2	4199.4	4251.6	3863.5
77.5°	34.0	36.3	40.9	61.3	95.3	313.3	333.7	1409.6	2914.6	2948.7	2821.6
80°	27.2	27.2	29.5	45.4	63.6	145.3	109.0	460.8	908.0	1169.0	1507.3
82.5°	9.1	11.3	15.9	25.0	31.8	31.8	36.3	231.5	449.5	483.5	608.4
85°	4.5	4.5	6.8	9.1	9.1	9.1	9.1	40.9	77.2	93.1	129.4
87.5°	2.3	0.0	0.0	0.0	0.0	0.0	2.3	4.5	6.8	6.8	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507664

CATALOG NUMBER: VERD-S-CA1-70-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1350.6	1343.8	1327.9	1316.6	1300.7	1287.1	1271.2	1262.1	1257.6	1255.3	1250.8
5°	1362.0	1343.8	1312.0	1278.0	1248.5	1225.8	1194.0	1178.1	1169.0	1164.5	1162.2
7.5°	1375.6	1352.9	1298.4	1246.2	1194.0	1155.4	1116.8	1091.9	1080.5	1078.2	1076.0
10°	1384.7	1348.4	1275.7	1219.0	1150.9	1089.6	1044.2	1014.7	998.8	996.5	994.2
12.5°	1402.8	1355.2	1257.6	1175.8	1105.5	1026.0	978.4	944.3	928.4	914.8	914.8
15°	1432.3	1371.1	1248.5	1139.5	1046.5	969.3	908.0	871.7	860.3	842.2	837.6
17.5°	1482.3	1400.6	1241.7	1103.2	992.0	914.8	842.2	803.6	796.8	780.9	771.8
20°	1543.6	1443.7	1246.2	1069.2	935.2	846.7	774.1	735.5	712.8	699.1	694.6
22.5°	1641.2	1507.3	1262.1	1044.2	885.3	785.4	708.2	646.9	597.0	578.8	578.8
25°	1779.7	1616.2	1289.3	1023.8	835.3	726.4	631.1	526.6	460.8	435.8	429.0
27.5°	1936.3	1754.7	1352.9	1005.6	794.5	660.6	519.8	404.1	333.7	311.0	311.0
30°	2115.6	1900.0	1430.1	994.2	744.5	560.7	392.7	295.1	238.3	213.4	211.1
32.5°	2292.7	2049.8	1520.9	985.2	692.3	438.1	283.7	215.6	168.0	149.8	152.1
35°	2469.7	2197.3	1598.1	985.2	606.1	315.5	202.0	149.8	120.3	111.2	111.2
37.5°	2669.5	2363.0	1659.3	971.5	476.7	224.7	138.5	109.0	99.9	95.3	95.3
40°	2876.0	2517.4	1700.2	942.0	340.5	154.4	97.6	95.3	90.8	84.0	81.7
42.5°	3069.0	2694.4	1725.2	885.3	222.5	102.1	86.3	88.5	86.3	74.9	72.6
45°	3273.3	2837.5	1738.8	771.8	147.5	84.0	77.2	81.7	84.0	74.9	72.6
47.5°	3477.6	2994.1	1747.9	601.5	97.6	81.7	72.6	79.4	81.7	72.6	70.4
50°	3693.2	3137.1	1734.3	385.9	86.3	77.2	70.4	72.6	77.2	72.6	70.4
52.5°	3881.6	3266.5	1670.7	215.6	84.0	74.9	65.8	68.1	74.9	70.4	70.4
55°	4074.6	3393.6	1552.7	127.1	81.7	70.4	65.8	68.1	70.4	65.8	68.1
57.5°	4249.4	3516.2	1375.6	104.4	81.7	68.1	68.1	63.6	63.6	59.0	59.0
60°	4383.3	3627.4	1164.5	97.6	77.2	70.4	63.6	59.0	54.5	49.9	49.9
62.5°	4490.0	3722.7	864.9	90.8	74.9	68.1	59.0	52.2	45.4	40.9	40.9
65°	4549.0	3743.2	610.6	81.7	70.4	65.8	54.5	45.4	36.3	34.0	34.0
67.5°	4480.9	3636.5	372.3	77.2	65.8	63.6	52.2	40.9	31.8	29.5	29.5
70°	4219.9	3350.5	208.8	70.4	59.0	56.7	47.7	36.3	29.5	25.0	25.0
72.5°	3788.6	2930.5	104.4	59.0	49.9	49.9	43.1	31.8	27.2	22.7	22.7
75°	3200.7	2403.9	74.9	43.1	40.9	40.9	36.3	29.5	25.0	20.4	20.4
77.5°	2344.9	1584.4	61.3	36.3	29.5	29.5	31.8	27.2	22.7	18.2	18.2
80°	1214.4	785.4	52.2	27.2	25.0	22.7	22.7	22.7	18.2	15.9	15.9
82.5°	538.0	301.9	34.0	20.4	20.4	18.2	18.2	18.2	15.9	13.6	13.6
85°	104.4	56.7	18.2	15.9	13.6	13.6	13.6	11.3	11.3	11.3	11.3
87.5°	9.1	9.1	9.1	9.1	9.1	6.8	6.8	6.8	6.8	6.8	6.8
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)