

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: P507585

Luminaire Tested: **VERD-S-CA1-50-730-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-50-730-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 940mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7300 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

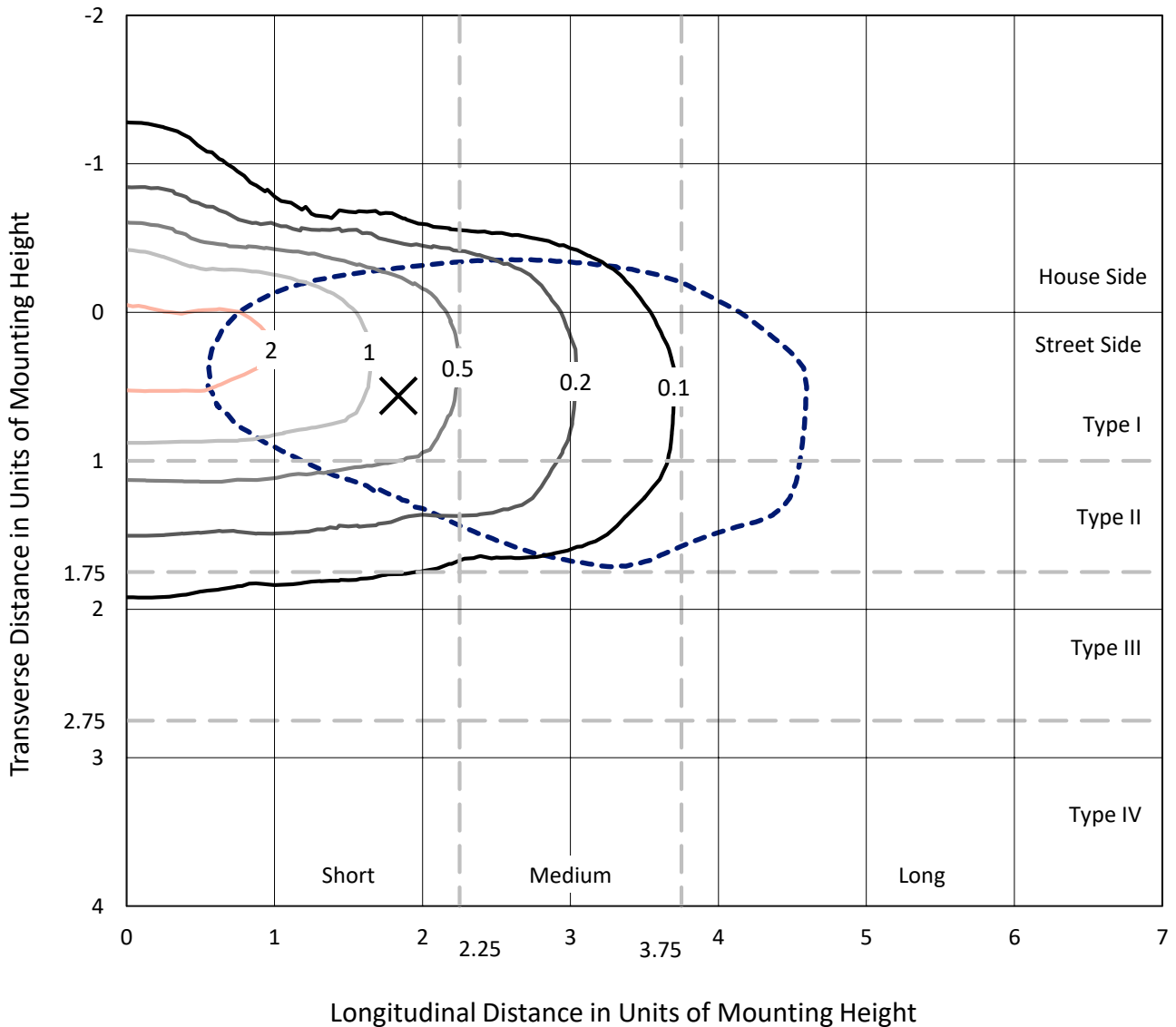


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### Iso-Footcandle Lines of Horizontal Illumination

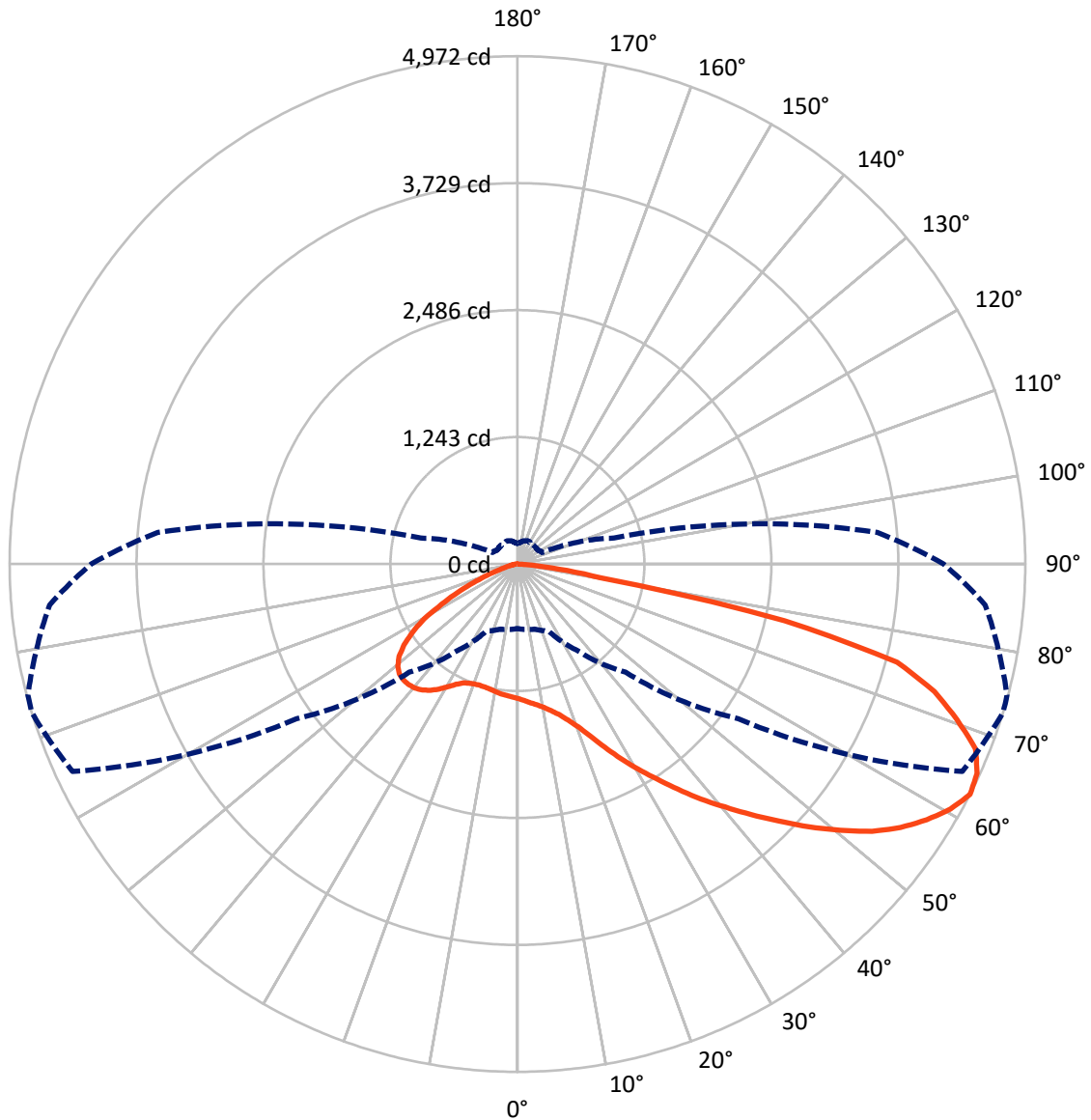
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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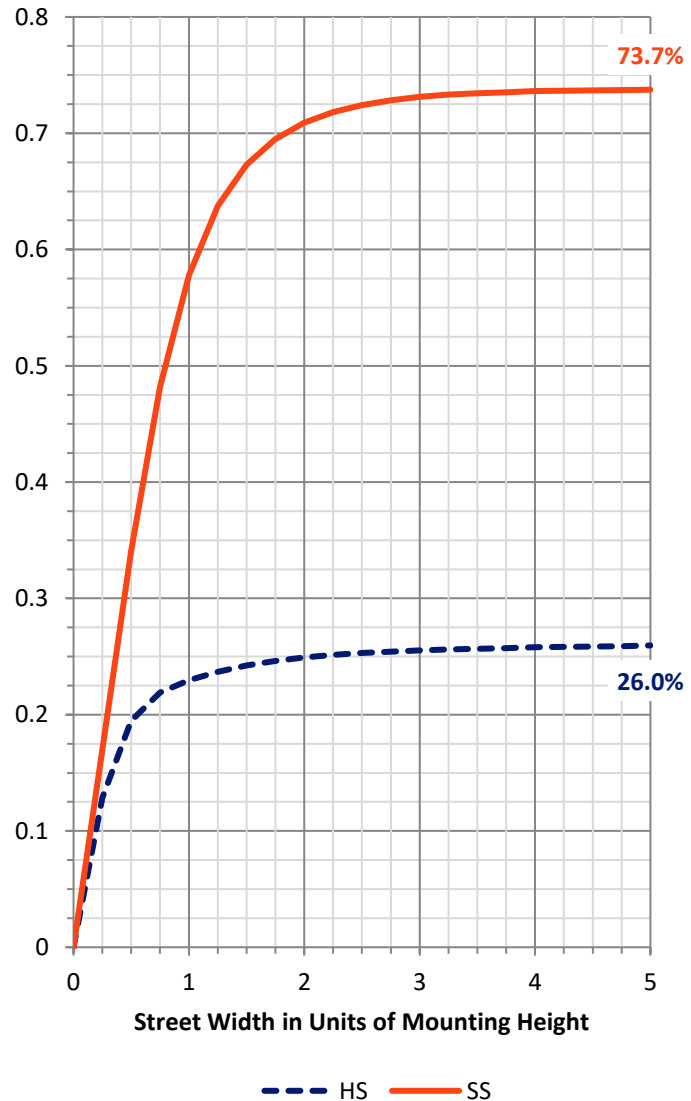
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1922.9	0.0	1922.9
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	5377.1	0.0	5377.1
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	7300.0	0.0	7300.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	1.7
10°-20°	389.5	5.3
20°-30°	674.3	9.2
30°-40°	976.5	13.4
40°-50°	1250.7	17.1
50°-60°	1448.0	19.8
60°-70°	1458.2	20.0
70°-80°	891.5	12.2
80°-90°	84.0	1.2
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°	7300.0	100.0
0°-180°	7300.0	100.0

**Coefficient of Utilization**



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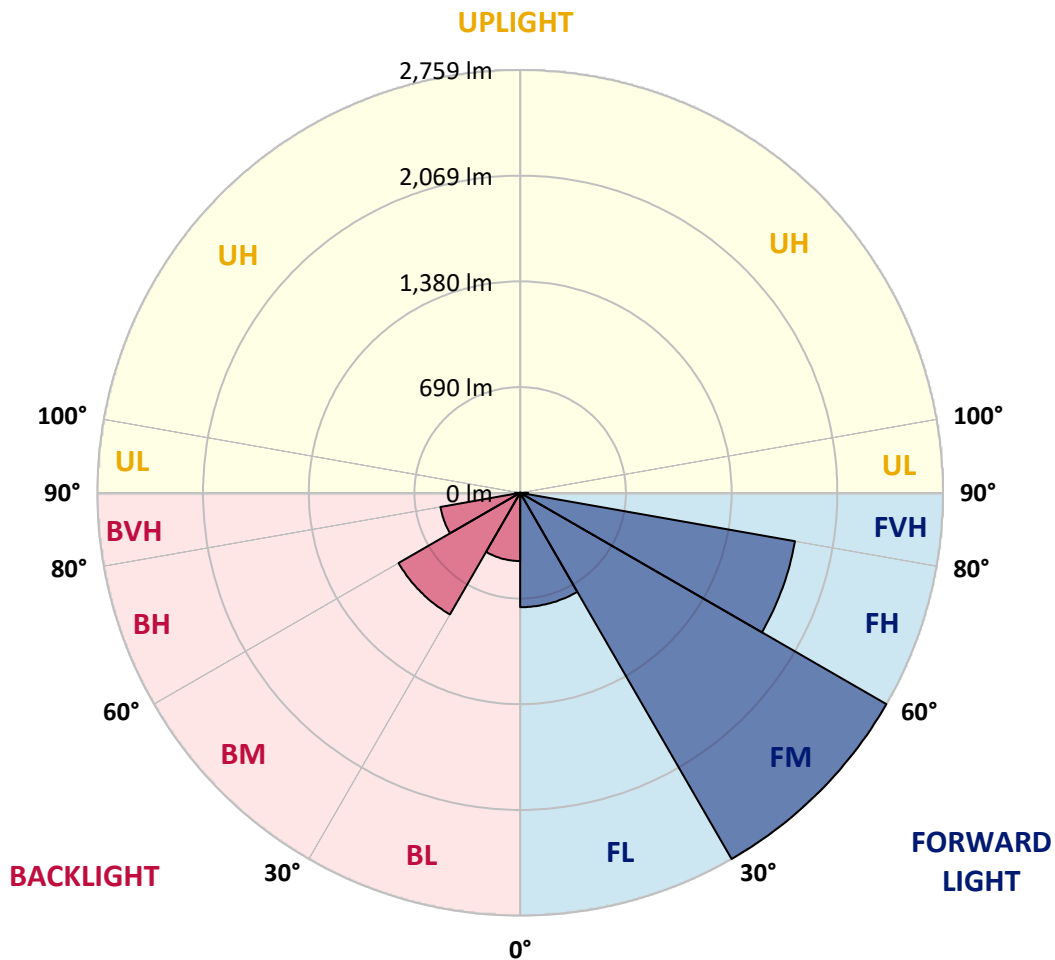
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.1	10.2			
FM	(30°-60°)	2759.2	37.8			
FH	(60°-80°)	1821.1	24.9			G2/5000
FVH	(80°-90°)	50.7	0.7			G1/100
BL	(0°-30°)	445.1	6.1	B1/500		
BM	(30°-60°)	916.0	12.5	B1/1000		
BH	(60°-80°)	528.6	7.2	B2/1000		G2/1000
BVH	(80°-90°)	33.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6
2.5°	1386.5	1384.4	1380.3	1378.2	1374.1	1363.8	1357.7	1347.4	1339.2	1337.1	1324.8
5°	1454.4	1456.4	1454.4	1448.2	1440.0	1425.6	1405.0	1378.2	1365.9	1361.8	1341.2
7.5°	1518.1	1518.1	1516.1	1507.8	1499.6	1481.1	1452.3	1421.4	1392.6	1384.4	1357.7
10°	1579.8	1579.8	1573.7	1565.4	1553.1	1530.5	1501.7	1462.6	1427.6	1415.3	1370.0
12.5°	1645.7	1643.6	1635.4	1623.0	1606.6	1588.1	1557.2	1514.0	1474.9	1460.5	1396.8
15°	1697.1	1697.1	1690.9	1682.7	1668.3	1645.7	1616.9	1579.8	1528.4	1516.1	1433.8
17.5°	1742.3	1744.4	1740.3	1740.3	1727.9	1711.5	1686.8	1656.0	1606.6	1588.1	1489.3
20°	1779.4	1777.3	1785.5	1791.7	1795.8	1785.5	1771.1	1750.6	1701.2	1682.7	1561.3
22.5°	1795.8	1799.9	1824.6	1855.5	1874.0	1876.1	1874.0	1871.9	1828.7	1804.1	1660.1
25°	1804.1	1810.2	1847.3	1900.7	1941.9	1972.7	2005.7	2026.2	1987.1	1968.6	1808.2
27.5°	1812.3	1818.5	1861.7	1927.5	2005.7	2079.7	2145.5	2184.6	2155.8	2133.2	1960.4
30°	1797.9	1804.1	1853.4	1946.0	2057.1	2186.7	2279.2	2334.8	2330.7	2316.3	2135.3
32.5°	1767.0	1773.2	1828.7	1943.9	2110.6	2295.7	2398.6	2491.1	2509.6	2495.2	2310.1
35°	1711.5	1719.7	1783.5	1919.3	2135.3	2386.2	2524.0	2659.8	2707.1	2709.2	2501.4
37.5°	1635.4	1639.5	1717.7	1871.9	2143.5	2450.0	2629.0	2822.3	2919.0	2921.1	2696.8
40°	1532.5	1542.8	1639.5	1812.3	2125.0	2495.2	2733.9	2999.2	3126.8	3112.4	2908.7
42.5°	1415.3	1423.5	1518.1	1717.7	2081.8	2522.0	2830.5	3184.4	3353.0	3344.8	3108.3
45°	1310.4	1322.7	1394.7	1586.0	1999.5	2528.2	2914.9	3369.5	3587.6	3577.3	3311.9
47.5°	1170.5	1201.3	1298.0	1468.8	1876.1	2501.4	2991.0	3620.5	3846.7	3832.3	3525.8
50°	901.0	911.3	1114.9	1370.0	1736.2	2435.6	3056.8	3852.9	4097.7	4087.4	3750.1
52.5°	812.5	820.8	886.6	1256.9	1596.3	2318.3	3095.9	4151.2	4348.7	4319.9	3951.7
55°	763.2	771.4	808.4	1003.9	1474.9	2141.4	3104.1	4404.2	4552.3	4525.6	4140.9
57.5°	717.9	724.1	759.1	859.9	1335.0	1896.6	3060.9	4607.9	4725.1	4698.4	4311.6
60°	670.6	676.8	713.8	781.7	1162.3	1672.4	2919.0	4766.3	4871.2	4844.4	4465.9
62.5°	631.5	641.8	660.3	724.1	1038.8	1497.6	2641.3	4805.3	4972.0	4961.7	4597.6
65°	584.2	588.3	617.1	668.6	917.5	1376.2	2343.0	4692.2	4945.2	4963.7	4675.7
67.5°	530.7	532.8	559.5	596.6	767.3	1256.9	2077.7	4540.0	4838.3	4869.1	4618.2
70°	458.7	460.8	485.5	524.6	635.6	1090.3	1804.1	4315.8	4564.7	4593.5	4396.0
72.5°	382.6	382.6	403.2	446.4	524.6	903.1	1444.1	3824.1	4270.5	4317.8	4033.9
75°	166.6	172.8	207.8	248.9	339.4	664.4	985.3	2960.1	3838.5	3871.4	3536.1
77.5°	45.3	45.3	53.5	69.9	98.7	296.2	312.7	1302.1	2674.2	2758.5	2614.6
80°	37.0	37.0	41.1	53.5	67.9	146.1	104.9	419.6	826.9	1090.3	1355.6
82.5°	20.6	20.6	24.7	30.9	37.0	37.0	37.0	213.9	407.3	434.0	567.8
85°	10.3	12.3	12.3	14.4	14.4	12.3	12.3	43.2	78.2	88.5	135.8
87.5°	4.1	4.1	4.1	4.1	2.1	2.1	4.1	6.2	6.2	8.2	10.3
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°	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6	1318.6
2.5°	1320.6	1314.5	1306.2	1300.1	1287.7	1275.4	1267.2	1261.0	1258.9	1256.9	1256.9
5°	1328.9	1318.6	1296.0	1273.3	1254.8	1238.4	1224.0	1213.7	1209.6	1207.5	1207.5
7.5°	1341.2	1326.8	1289.8	1256.9	1224.0	1199.3	1176.7	1162.3	1154.0	1156.1	1162.3
10°	1347.4	1324.8	1275.4	1242.5	1199.3	1160.2	1133.5	1117.0	1110.8	1110.8	1108.8
12.5°	1363.8	1330.9	1265.1	1213.7	1176.7	1123.2	1092.3	1077.9	1069.7	1057.3	1053.2
15°	1388.5	1347.4	1261.0	1193.1	1135.5	1088.2	1047.1	1026.5	1020.3	1003.9	1003.9
17.5°	1433.8	1376.2	1261.0	1170.5	1096.4	1051.2	997.7	968.9	964.8	954.5	952.4
20°	1487.3	1415.3	1271.3	1147.9	1055.3	995.6	936.0	907.2	896.9	886.6	886.6
22.5°	1571.6	1474.9	1289.8	1131.4	1012.1	938.0	872.2	831.1	814.6	812.5	808.4
25°	1701.2	1569.6	1318.6	1114.9	968.9	874.3	808.4	754.9	728.2	724.1	722.0
27.5°	1843.1	1699.2	1376.2	1100.5	921.6	802.3	724.1	666.5	633.6	629.5	627.4
30°	1995.4	1832.9	1452.3	1088.2	861.9	720.0	631.5	576.0	545.1	536.9	539.0
32.5°	2162.0	1976.9	1534.6	1077.9	798.1	613.0	530.7	493.7	460.8	446.4	448.4
35°	2324.5	2104.4	1606.6	1069.7	713.8	516.3	452.6	413.5	380.6	362.0	362.0
37.5°	2507.6	2254.6	1666.2	1053.2	623.3	450.5	388.8	349.7	325.0	308.6	308.6
40°	2686.5	2404.7	1713.5	1022.4	522.5	397.0	320.9	298.3	281.8	271.5	267.4
42.5°	2861.4	2554.9	1744.4	970.9	438.2	333.2	267.4	265.4	267.4	257.1	255.1
45°	3042.4	2703.0	1767.0	888.7	378.5	275.6	238.6	253.0	267.4	263.3	263.3
47.5°	3239.9	2847.0	1785.5	754.9	320.9	242.7	236.6	251.0	269.5	271.5	271.5
50°	3429.2	2993.1	1779.4	584.2	281.8	240.7	238.6	242.7	267.4	273.6	269.5
52.5°	3606.1	3118.5	1730.0	425.8	263.3	244.8	244.8	240.7	261.2	265.4	267.4
55°	3785.0	3235.8	1618.9	337.4	253.0	244.8	255.1	244.8	251.0	253.0	257.1
57.5°	3947.5	3355.1	1454.4	302.4	251.0	244.8	255.1	248.9	248.9	240.7	238.6
60°	4073.0	3453.8	1254.8	288.0	244.8	246.8	251.0	251.0	244.8	226.3	220.1
62.5°	4171.8	3536.1	981.2	269.5	240.7	242.7	240.7	248.9	234.5	207.8	201.6
65°	4227.3	3550.5	750.8	248.9	230.4	238.6	232.5	230.4	218.1	189.3	176.9
67.5°	4165.6	3449.7	524.6	228.3	218.1	232.5	222.2	213.9	199.5	172.8	156.3
70°	3927.0	3157.6	345.6	201.6	201.6	218.1	209.8	197.5	179.0	158.4	139.9
72.5°	3478.5	2721.5	207.8	166.6	179.0	199.5	195.4	179.0	125.5	96.7	84.3
75°	2941.6	2236.0	133.7	125.5	146.1	179.0	181.0	160.5	107.0	86.4	86.4
77.5°	2137.3	1468.8	78.2	69.9	96.7	144.0	154.3	117.3	115.2	160.5	117.3
80°	1096.4	711.8	59.7	43.2	51.4	107.0	86.4	88.5	174.9	129.6	82.3
82.5°	475.2	281.8	37.0	30.9	32.9	53.5	55.5	146.1	135.8	76.1	51.4
85°	100.8	53.5	20.6	20.6	20.6	24.7	30.9	158.4	84.3	39.1	16.5
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	8.2	8.2	8.2	6.2	6.2
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)