

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: P507579

Luminaire Tested: **VERD-S-CA1-50-727-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-50-727-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 940mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6250 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

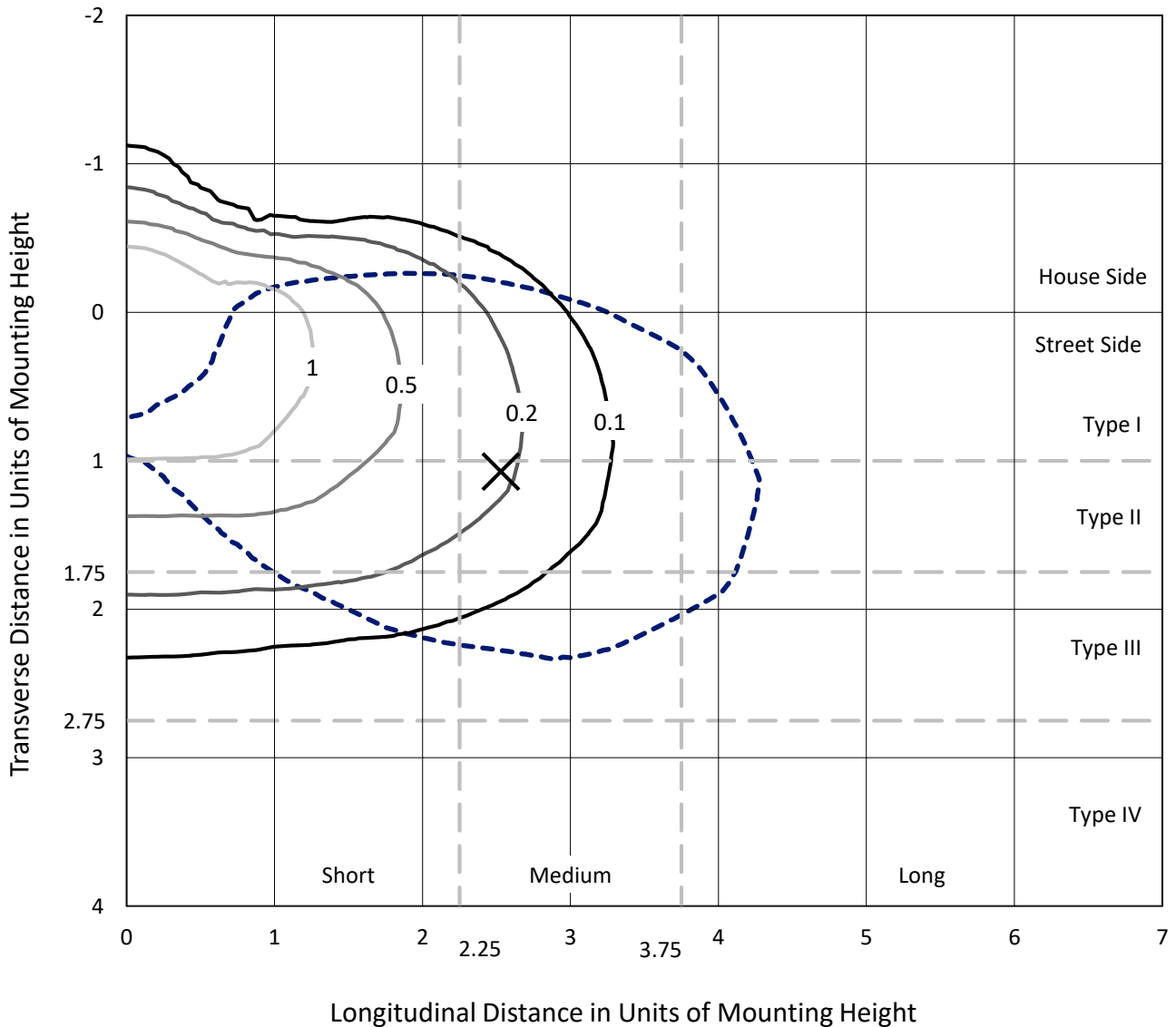


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### Iso-Footcandle Lines of Horizontal Illumination

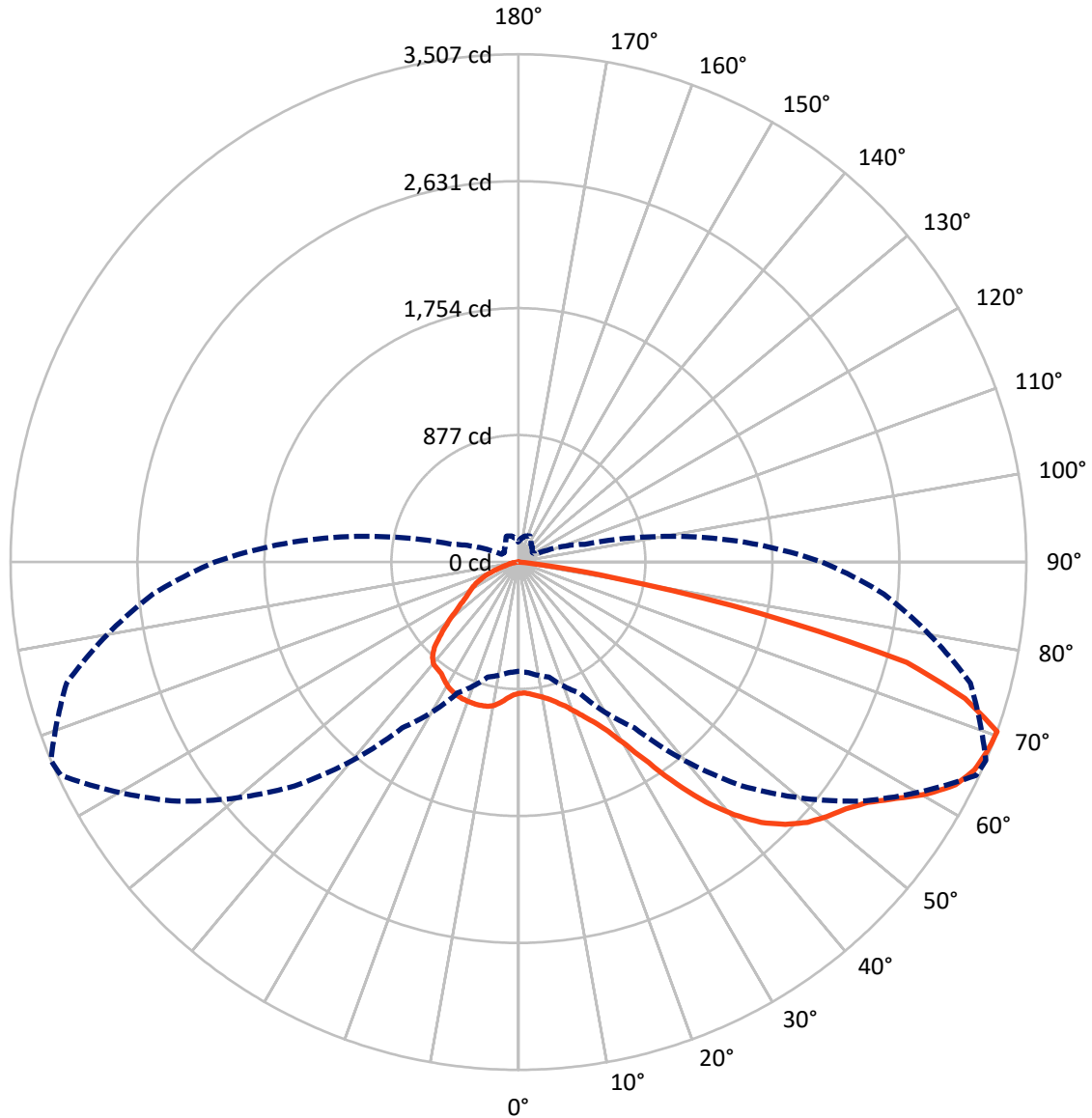
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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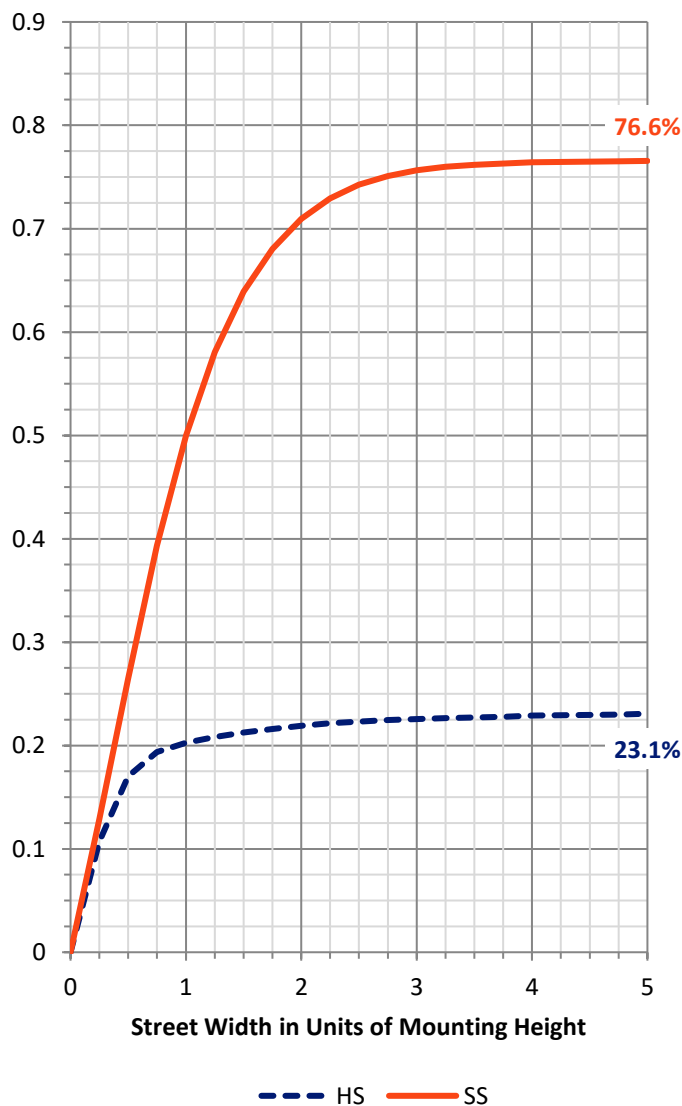
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1462.3	0.0	1462.3
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4787.7	0.0	4787.7
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	6250.0	0.0	6250.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.5
10°-20°	296.3	4.7
20°-30°	522.5	8.4
30°-40°	800.9	12.8
40°-50°	1091.7	17.5
50°-60°	1291.9	20.7
60°-70°	1346.8	21.5
70°-80°	753.4	12.1
80°-90°	54.5	0.9
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°	6250.0	100.0
0°-180°	6250.0	100.0

**Coefficient of Utilization**



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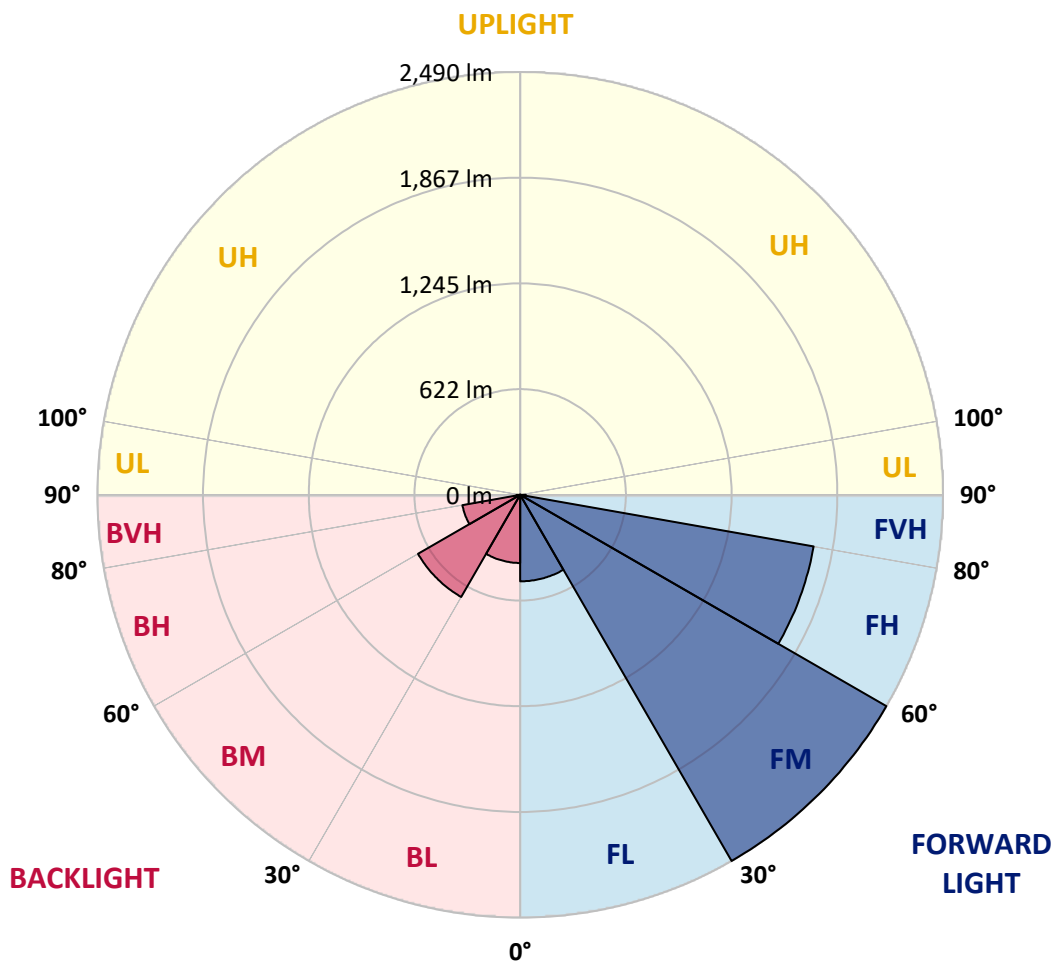
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.4	8.2			
FM (30°-60°)	2490.0	39.8			
FH (60°-80°)	1754.9	28.1			G1/1800
FVH (80°-90°)	33.4	0.5			G1/100
BL (0°-30°)	401.4	6.4	B1/500		
BM (30°-60°)	694.5	11.1	B1/1000		
BH (60°-80°)	345.3	5.5	B1/500		G1/500
BVH (80°-90°)	21.1	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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6
2.5°	910.1	910.1	910.1	908.3	908.3	908.3	906.6	904.8	904.8	906.6	906.6
5°	933.2	933.2	931.4	929.6	926.1	922.5	919.0	917.2	917.2	917.2	919.0
7.5°	965.1	963.3	959.8	958.0	952.7	947.4	940.3	933.2	933.2	929.6	933.2
10°	1004.1	1004.1	998.8	995.3	988.2	974.0	963.3	952.7	950.9	947.4	952.7
12.5°	1053.8	1053.8	1050.3	1041.4	1030.8	1013.0	993.5	975.8	974.0	968.7	979.3
15°	1114.1	1108.8	1107.0	1099.9	1080.4	1057.4	1030.8	1007.7	1007.7	998.8	1011.2
17.5°	1181.6	1179.8	1178.0	1169.1	1146.1	1112.4	1076.9	1050.3	1045.0	1039.6	1046.7
20°	1263.2	1261.4	1259.6	1245.4	1218.8	1178.0	1135.4	1099.9	1096.4	1091.1	1085.8
22.5°	1357.2	1357.2	1350.1	1339.5	1302.2	1254.3	1202.8	1158.5	1158.5	1153.2	1128.3
25°	1447.7	1444.1	1440.6	1428.2	1398.0	1346.6	1286.2	1234.8	1227.7	1227.7	1185.1
27.5°	1531.1	1531.1	1536.4	1529.3	1499.1	1445.9	1385.6	1327.0	1323.5	1316.4	1250.7
30°	1618.0	1621.5	1623.3	1623.3	1609.1	1568.3	1502.7	1458.3	1465.4	1447.7	1348.3
32.5°	1683.6	1687.2	1710.2	1731.5	1719.1	1696.1	1658.8	1644.6	1651.7	1665.9	1557.7
35°	1745.7	1751.0	1783.0	1827.3	1846.9	1836.2	1841.5	1866.4	1882.3	1939.1	1845.1
37.5°	1791.9	1797.2	1825.6	1880.6	1939.1	1969.3	2018.9	2073.9	2104.1	2176.8	2042.0
40°	1804.3	1813.1	1871.7	1946.2	2034.9	2125.4	2185.7	2256.7	2293.9	2327.6	2175.1
42.5°	1761.7	1770.6	1846.9	2003.0	2127.2	2265.5	2331.2	2428.8	2458.9	2439.4	2278.0
45°	1735.1	1740.4	1818.5	1997.6	2207.0	2400.4	2464.2	2567.1	2584.9	2537.0	2366.7
47.5°	1697.8	1703.1	1786.5	1988.8	2270.9	2517.5	2561.8	2662.9	2686.0	2618.6	2434.1
50°	1642.8	1649.9	1745.7	1972.8	2313.4	2597.3	2645.2	2749.9	2762.3	2691.3	2505.0
52.5°	1577.2	1587.8	1689.0	1939.1	2341.8	2648.7	2710.8	2819.1	2831.5	2785.4	2581.3
55°	1497.4	1508.0	1616.2	1889.4	2333.0	2664.7	2739.2	2907.8	2929.1	2891.8	2647.0
57.5°	1419.3	1426.4	1538.2	1816.7	2283.3	2689.6	2824.4	3051.5	3079.9	3001.8	2700.2
60°	1325.3	1341.2	1449.4	1717.3	2207.0	2714.4	2934.4	3223.6	3250.2	3108.2	2741.0
62.5°	1227.7	1241.9	1337.7	1593.2	2088.1	2691.3	3017.8	3372.6	3388.6	3193.4	2755.2
65°	1114.1	1115.9	1204.6	1435.3	1917.8	2597.3	3024.9	3445.3	3461.3	3246.6	2730.4
67.5°	963.3	963.3	1037.9	1234.8	1689.0	2427.0	2961.0	3468.4	3491.5	3282.1	2670.0
70°	754.0	766.4	823.2	998.8	1398.0	2185.7	2879.4	3486.1	3507.4	3230.7	2533.4
72.5°	526.9	523.4	581.9	688.4	1011.2	1744.0	2568.9	3225.3	3225.3	2968.1	2283.3
75°	161.4	181.0	207.6	278.5	461.3	1169.1	2104.1	2733.9	2769.4	2570.7	1882.3
77.5°	53.2	53.2	62.1	76.3	99.4	248.4	1052.0	1674.8	1703.1	1673.0	1165.6
80°	42.6	42.6	47.9	55.0	63.9	127.7	370.8	628.0	674.2	743.4	482.6
82.5°	30.2	30.2	31.9	33.7	31.9	51.4	97.6	166.8	170.3	184.5	156.1
85°	19.5	17.7	17.7	16.0	14.2	14.2	12.4	12.4	14.2	14.2	17.7
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3
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°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6
2.5°	908.3	910.1	915.4	919.0	922.5	926.1	927.9	929.6	929.6	931.4	931.4
5°	920.8	924.3	933.2	942.1	956.2	970.4	982.9	990.0	991.7	998.8	998.8
7.5°	936.7	942.1	963.3	979.3	1000.6	1016.6	1030.8	1037.9	1045.0	1048.5	1048.5
10°	961.6	968.7	990.0	1007.7	1025.4	1037.9	1046.7	1052.0	1053.8	1055.6	1055.6
12.5°	986.4	995.3	1007.7	1021.9	1032.5	1039.6	1045.0	1046.7	1046.7	1046.7	1046.7
15°	1013.0	1016.6	1020.1	1023.7	1029.0	1030.8	1030.8	1029.0	1025.4	1023.7	1023.7
17.5°	1039.6	1036.1	1030.8	1023.7	1016.6	1011.2	1004.1	997.1	991.7	988.2	990.0
20°	1071.6	1060.9	1037.9	1020.1	1000.6	981.1	965.1	950.9	940.3	938.5	940.3
22.5°	1108.8	1087.5	1050.3	1013.0	979.3	943.8	910.1	890.6	880.0	871.1	871.1
25°	1153.2	1119.5	1060.9	1002.4	949.1	892.4	846.3	816.1	798.4	787.7	791.3
27.5°	1204.6	1162.0	1071.6	986.4	904.8	830.3	770.0	722.1	702.5	688.4	690.1
30°	1279.1	1211.7	1084.0	963.3	848.0	754.0	674.2	617.4	583.7	573.0	576.6
32.5°	1445.9	1318.2	1098.2	929.6	784.2	663.5	557.1	487.9	452.4	452.4	450.6
35°	1724.4	1539.9	1131.9	888.8	713.2	562.4	425.8	361.9	360.1	367.2	369.0
37.5°	1919.6	1744.0	1236.6	849.8	635.1	440.0	315.8	298.1	315.8	322.9	321.1
40°	2045.6	1866.4	1357.2	809.0	525.1	315.8	250.1	237.7	255.5	269.7	280.3
42.5°	2148.4	1951.5	1412.2	755.8	392.1	227.1	184.5	181.0	207.6	227.1	234.2
45°	2230.1	2029.6	1419.3	681.3	266.1	168.5	150.8	166.8	198.7	214.7	216.4
47.5°	2295.7	2093.5	1399.8	562.4	177.4	147.3	147.3	168.5	198.7	214.7	214.7
50°	2359.6	2146.7	1350.1	457.7	159.7	143.7	149.0	170.3	196.9	209.3	209.3
52.5°	2412.8	2182.2	1263.2	365.5	154.3	140.2	149.0	170.3	193.4	198.7	195.2
55°	2460.7	2196.4	1185.1	294.5	149.0	138.4	152.6	173.9	191.6	191.6	184.5
57.5°	2487.3	2162.6	1126.6	243.1	143.7	138.4	154.3	177.4	196.9	200.5	195.2
60°	2487.3	2114.7	1062.7	214.7	140.2	138.4	154.3	189.8	234.2	216.4	214.7
62.5°	2453.6	2063.3	966.9	191.6	134.8	140.2	156.1	211.1	285.6	214.7	205.8
65°	2395.1	1963.9	840.9	170.3	129.5	141.9	154.3	243.1	340.6	207.6	182.7
67.5°	2285.1	1806.0	684.8	149.0	122.4	138.4	150.8	223.5	209.3	172.1	154.3
70°	2095.2	1570.1	475.5	129.5	117.1	134.8	150.8	196.9	186.3	157.9	138.4
72.5°	1813.1	1288.0	255.5	106.4	102.9	127.7	147.3	181.0	159.7	129.5	117.1
75°	1392.7	915.4	156.1	83.4	85.2	113.5	136.6	172.1	152.6	124.2	108.2
77.5°	803.7	424.0	111.8	62.1	60.3	90.5	122.4	159.7	149.0	120.6	104.7
80°	294.5	175.6	76.3	46.1	40.8	65.6	95.8	129.5	141.9	118.9	106.4
82.5°	126.0	94.0	49.7	31.9	30.2	37.3	58.5	90.5	118.9	95.8	88.7
85°	17.7	17.7	17.7	16.0	17.7	23.1	24.8	44.4	65.6	35.5	35.5
87.5°	7.1	7.1	7.1	7.1	8.9	8.9	7.1	7.1	5.3	5.3	5.3
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)