

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: P507571

Luminaire Tested: **VERD-S-CA1-50-722-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507571  
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-CA1-50-722-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 940mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6015 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

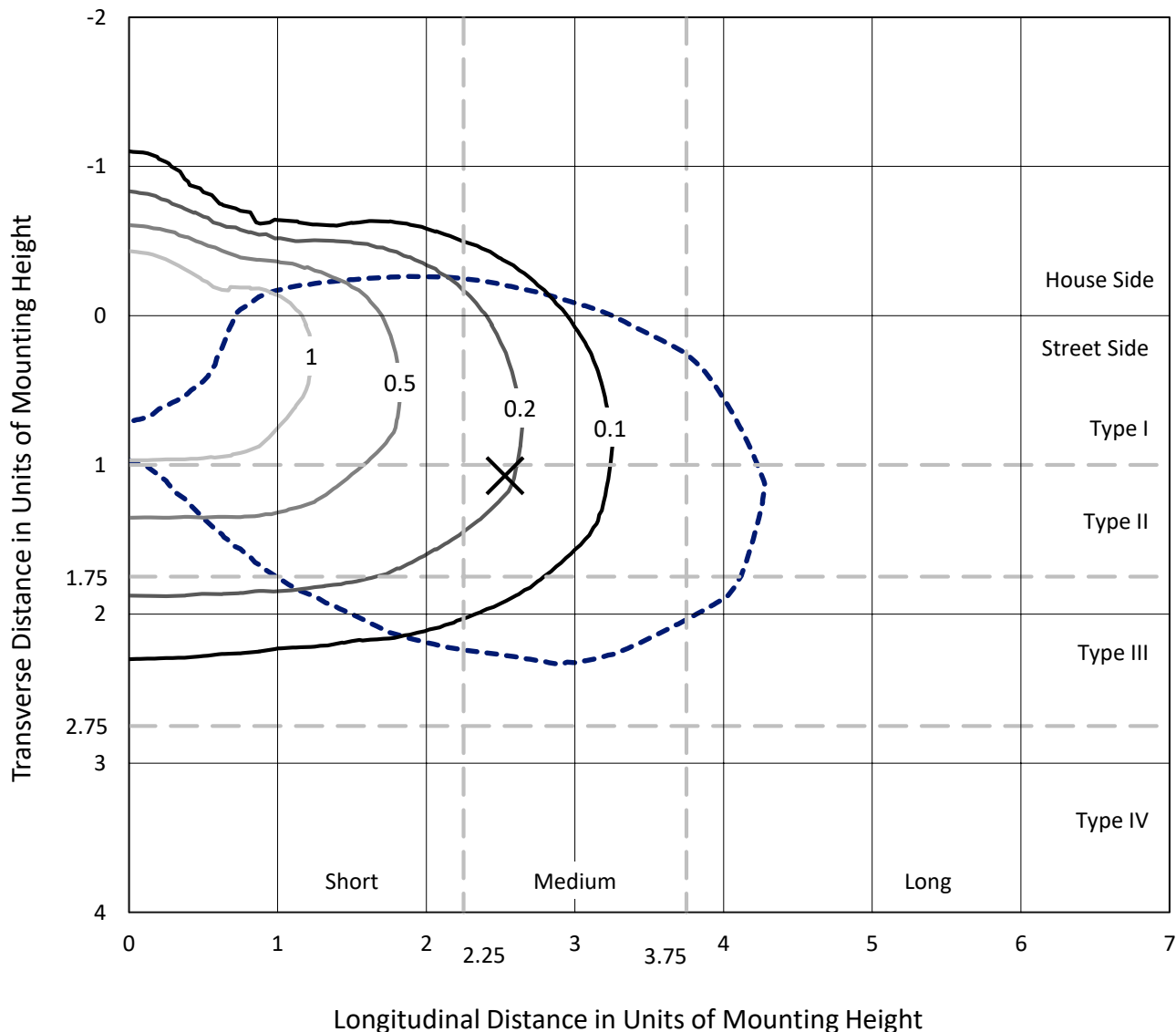


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### Iso-Footcandle Lines of Horizontal Illumination

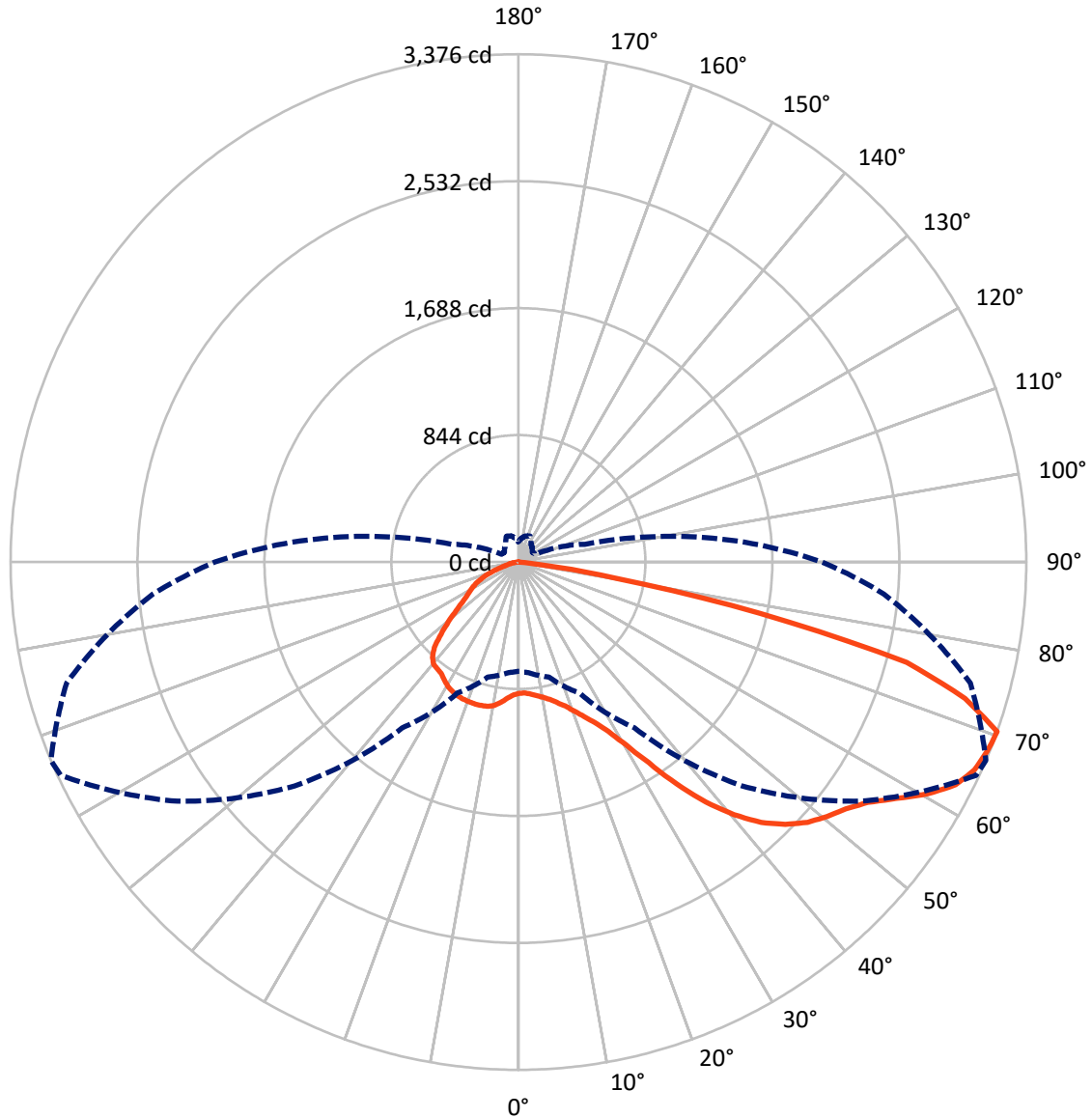
× Max cd  
 - - - 1/2 Max cd



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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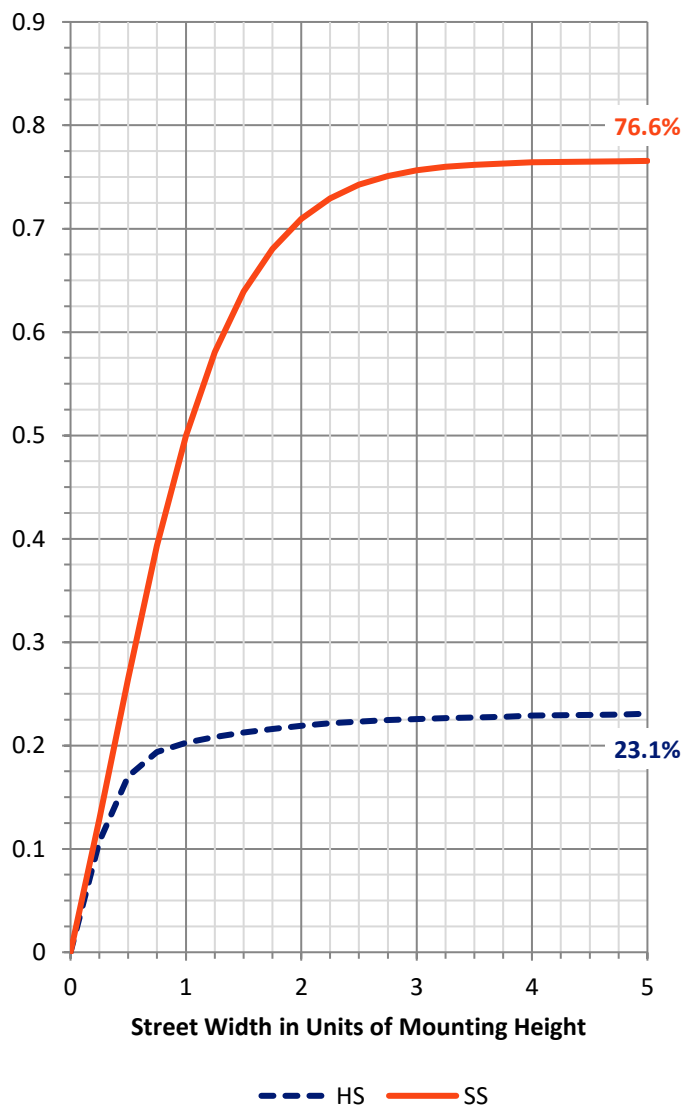
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1407.3	0.0	1407.3
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4607.6	0.0	4607.6
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	6015.0	0.0	6015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	1.5
10°-20°	285.1	4.7
20°-30°	502.9	8.4
30°-40°	770.8	12.8
40°-50°	1050.7	17.5
50°-60°	1243.3	20.7
60°-70°	1296.2	21.5
70°-80°	725.1	12.1
80°-90°	52.5	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°	6015.0	100.0
0°-180°	6015.0	100.0

**Coefficient of Utilization**



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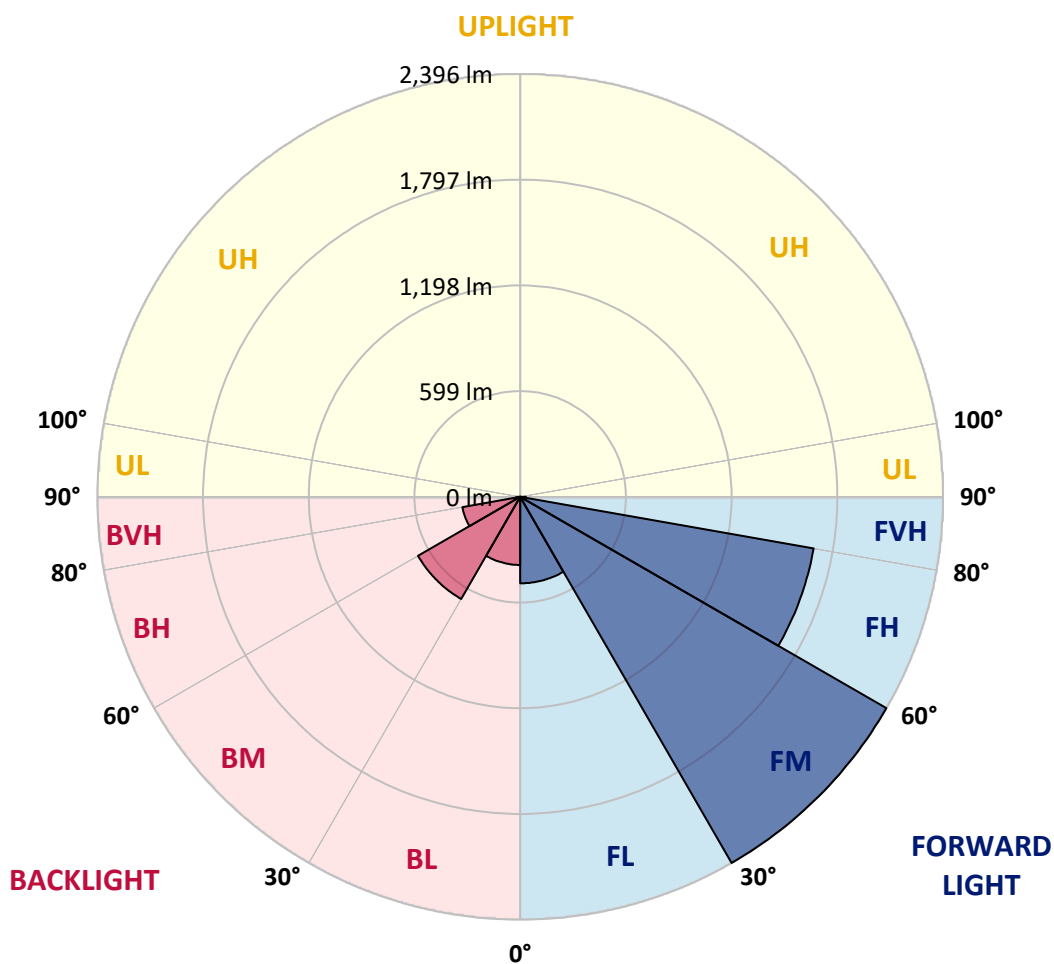
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.3	8.2			
FM (30°-60°)	2396.3	39.8			
FH (60°-80°)	1688.9	28.1			G1/1800
FVH (80°-90°)	32.1	0.5			G1/100
BL (0°-30°)	386.3	6.4	B1/500		
BM (30°-60°)	668.4	11.1	B1/1000		
BH (60°-80°)	332.3	5.5	B1/500		G1/500
BVH (80°-90°)	20.3	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°	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5
2.5°	875.9	875.9	875.9	874.2	874.2	874.2	872.5	870.8	870.8	872.5	872.5
5°	898.1	898.1	896.4	894.7	891.3	887.9	884.4	882.7	882.7	882.7	884.4
7.5°	928.8	927.1	923.7	922.0	916.9	911.8	904.9	898.1	898.1	894.7	898.1
10°	966.4	966.4	961.3	957.9	951.0	937.4	927.1	916.9	915.2	911.8	916.9
12.5°	1014.2	1014.2	1010.8	1002.2	992.0	974.9	956.1	939.1	937.4	932.2	942.5
15°	1072.3	1067.1	1065.4	1058.6	1039.8	1017.6	992.0	969.8	969.8	961.3	973.2
17.5°	1137.1	1135.4	1133.7	1125.2	1103.0	1070.5	1036.4	1010.8	1005.7	1000.5	1007.4
20°	1215.7	1214.0	1212.3	1198.6	1173.0	1133.7	1092.7	1058.6	1055.2	1050.1	1044.9
22.5°	1306.2	1306.2	1299.3	1289.1	1253.2	1207.1	1157.6	1114.9	1114.9	1109.8	1085.9
25°	1393.2	1389.8	1386.4	1374.5	1345.4	1295.9	1237.9	1188.4	1181.5	1181.5	1140.5
27.5°	1473.5	1473.5	1478.6	1471.8	1442.8	1391.5	1333.5	1277.1	1273.7	1266.9	1203.7
30°	1557.2	1560.6	1562.3	1562.3	1548.6	1509.3	1446.2	1403.5	1410.3	1393.2	1297.6
32.5°	1620.3	1623.7	1645.9	1666.4	1654.5	1632.3	1596.4	1582.8	1589.6	1603.3	1499.1
35°	1680.1	1685.2	1715.9	1758.6	1777.4	1767.2	1772.3	1796.2	1811.6	1866.2	1775.7
37.5°	1724.5	1729.6	1756.9	1809.8	1866.2	1895.2	1943.0	1996.0	2025.0	2095.0	1965.2
40°	1736.4	1745.0	1801.3	1873.0	1958.4	2045.5	2103.5	2171.8	2207.7	2240.1	2093.3
42.5°	1695.5	1704.0	1777.4	1927.7	2047.2	2180.4	2243.5	2337.4	2366.5	2347.7	2192.3
45°	1669.8	1675.0	1750.1	1922.5	2124.0	2310.1	2371.6	2470.6	2487.7	2441.6	2277.7
47.5°	1634.0	1639.1	1719.4	1914.0	2185.5	2422.8	2465.5	2562.8	2585.0	2520.1	2342.6
50°	1581.1	1587.9	1680.1	1898.6	2226.5	2499.6	2545.7	2646.5	2658.4	2590.1	2410.9
52.5°	1517.9	1528.1	1625.4	1866.2	2253.8	2549.2	2608.9	2713.1	2725.0	2680.6	2484.3
55°	1441.0	1451.3	1555.4	1818.4	2245.2	2564.5	2636.2	2798.4	2818.9	2783.1	2547.4
57.5°	1365.9	1372.8	1480.3	1748.4	2197.4	2588.4	2718.2	2936.7	2964.1	2888.9	2598.7
60°	1275.4	1290.8	1394.9	1652.8	2124.0	2612.3	2824.0	3102.4	3128.0	2991.4	2637.9
62.5°	1181.5	1195.2	1287.4	1533.2	2009.6	2590.1	2904.3	3245.8	3261.1	3073.3	2651.6
65°	1072.3	1074.0	1159.3	1381.3	1845.7	2499.6	2911.1	3315.8	3331.1	3124.6	2627.7
67.5°	927.1	927.1	998.8	1188.4	1625.4	2335.7	2849.7	3338.0	3360.2	3158.7	2569.6
70°	725.6	737.6	792.2	961.3	1345.4	2103.5	2771.1	3355.1	3375.5	3109.2	2438.2
72.5°	507.1	503.7	560.0	662.5	973.2	1678.4	2472.3	3104.1	3104.1	2856.5	2197.4
75°	155.4	174.2	199.8	268.1	443.9	1125.2	2025.0	2631.1	2665.3	2474.0	1811.6
77.5°	51.2	51.2	59.8	73.4	95.6	239.0	1012.5	1611.8	1639.1	1610.1	1121.8
80°	41.0	41.0	46.1	52.9	61.5	122.9	356.8	604.4	648.8	715.4	464.4
82.5°	29.0	29.0	30.7	32.4	30.7	49.5	93.9	160.5	163.9	177.6	150.3
85°	18.8	17.1	17.1	15.4	13.7	13.7	12.0	12.0	13.7	13.7	17.1
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1
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°	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5	872.5
2.5°	874.2	875.9	881.0	884.4	887.9	891.3	893.0	894.7	894.7	896.4	896.4
5°	886.1	889.6	898.1	906.6	920.3	934.0	945.9	952.7	954.4	961.3	961.3
7.5°	901.5	906.6	927.1	942.5	963.0	978.3	992.0	998.8	1005.7	1009.1	1009.1
10°	925.4	932.2	952.7	969.8	986.9	998.8	1007.4	1012.5	1014.2	1015.9	1015.9
12.5°	949.3	957.9	969.8	983.5	993.7	1000.5	1005.7	1007.4	1007.4	1007.4	1007.4
15°	974.9	978.3	981.8	985.2	990.3	992.0	992.0	990.3	986.9	985.2	985.2
17.5°	1000.5	997.1	992.0	985.2	978.3	973.2	966.4	959.6	954.4	951.0	952.7
20°	1031.3	1021.0	998.8	981.8	963.0	944.2	928.8	915.2	904.9	903.2	904.9
22.5°	1067.1	1046.6	1010.8	974.9	942.5	908.3	875.9	857.1	846.9	838.3	838.3
25°	1109.8	1077.4	1021.0	964.7	913.5	858.8	814.4	785.4	768.3	758.1	761.5
27.5°	1159.3	1118.4	1031.3	949.3	870.8	799.1	741.0	694.9	676.1	662.5	664.2
30°	1231.0	1166.2	1043.2	927.1	816.1	725.6	648.8	594.2	561.7	551.5	554.9
32.5°	1391.5	1268.6	1056.9	894.7	754.7	638.6	536.1	469.5	435.4	435.4	433.7
35°	1659.6	1482.0	1089.3	855.4	686.4	541.2	409.8	348.3	346.6	353.4	355.1
37.5°	1847.4	1678.4	1190.1	817.8	611.3	423.4	303.9	286.8	303.9	310.7	309.0
40°	1968.6	1796.2	1306.2	778.6	505.4	303.9	240.7	228.8	245.9	259.5	269.8
42.5°	2067.7	1878.1	1359.1	727.4	377.3	218.5	177.6	174.2	199.8	218.5	225.4
45°	2146.2	1953.3	1365.9	655.6	256.1	162.2	145.1	160.5	191.2	206.6	208.3
47.5°	2209.4	2014.7	1347.1	541.2	170.7	141.7	141.7	162.2	191.2	206.6	206.6
50°	2270.8	2066.0	1299.3	440.5	153.7	138.3	143.4	163.9	189.5	201.5	201.5
52.5°	2322.1	2100.1	1215.7	351.7	148.5	134.9	143.4	163.9	186.1	191.2	187.8
55°	2368.2	2113.8	1140.5	283.4	143.4	133.2	146.8	167.3	184.4	184.4	177.6
57.5°	2393.8	2081.3	1084.2	233.9	138.3	133.2	148.5	170.7	189.5	192.9	187.8
60°	2393.8	2035.2	1022.7	206.6	134.9	133.2	148.5	182.7	225.4	208.3	206.6
62.5°	2361.3	1985.7	930.5	184.4	129.8	134.9	150.3	203.2	274.9	206.6	198.1
65°	2305.0	1890.1	809.3	163.9	124.6	136.6	148.5	233.9	327.8	199.8	175.9
67.5°	2199.1	1738.1	659.1	143.4	117.8	133.2	145.1	215.1	201.5	165.6	148.5
70°	2016.4	1511.1	457.6	124.6	112.7	129.8	145.1	189.5	179.3	152.0	133.2
72.5°	1745.0	1239.6	245.9	102.4	99.0	122.9	141.7	174.2	153.7	124.6	112.7
75°	1340.3	881.0	150.3	80.2	82.0	109.3	131.5	165.6	146.8	119.5	104.2
77.5°	773.5	408.1	107.6	59.8	58.1	87.1	117.8	153.7	143.4	116.1	100.7
80°	283.4	169.0	73.4	44.4	39.3	63.2	92.2	124.6	136.6	114.4	102.4
82.5°	121.2	90.5	47.8	30.7	29.0	35.9	56.3	87.1	114.4	92.2	85.4
85°	17.1	17.1	17.1	15.4	17.1	22.2	23.9	42.7	63.2	34.1	34.1
87.5°	6.8	6.8	6.8	6.8	8.5	8.5	6.8	6.8	5.1	5.1	5.1
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)