

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: P507531

Luminaire Tested: **VERD-S-CA1-40-727-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507531
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-CA1-40-727-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 760mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5136 lumens
Efficiency: N/A
Efficacy: 118.3 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): 43.4
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

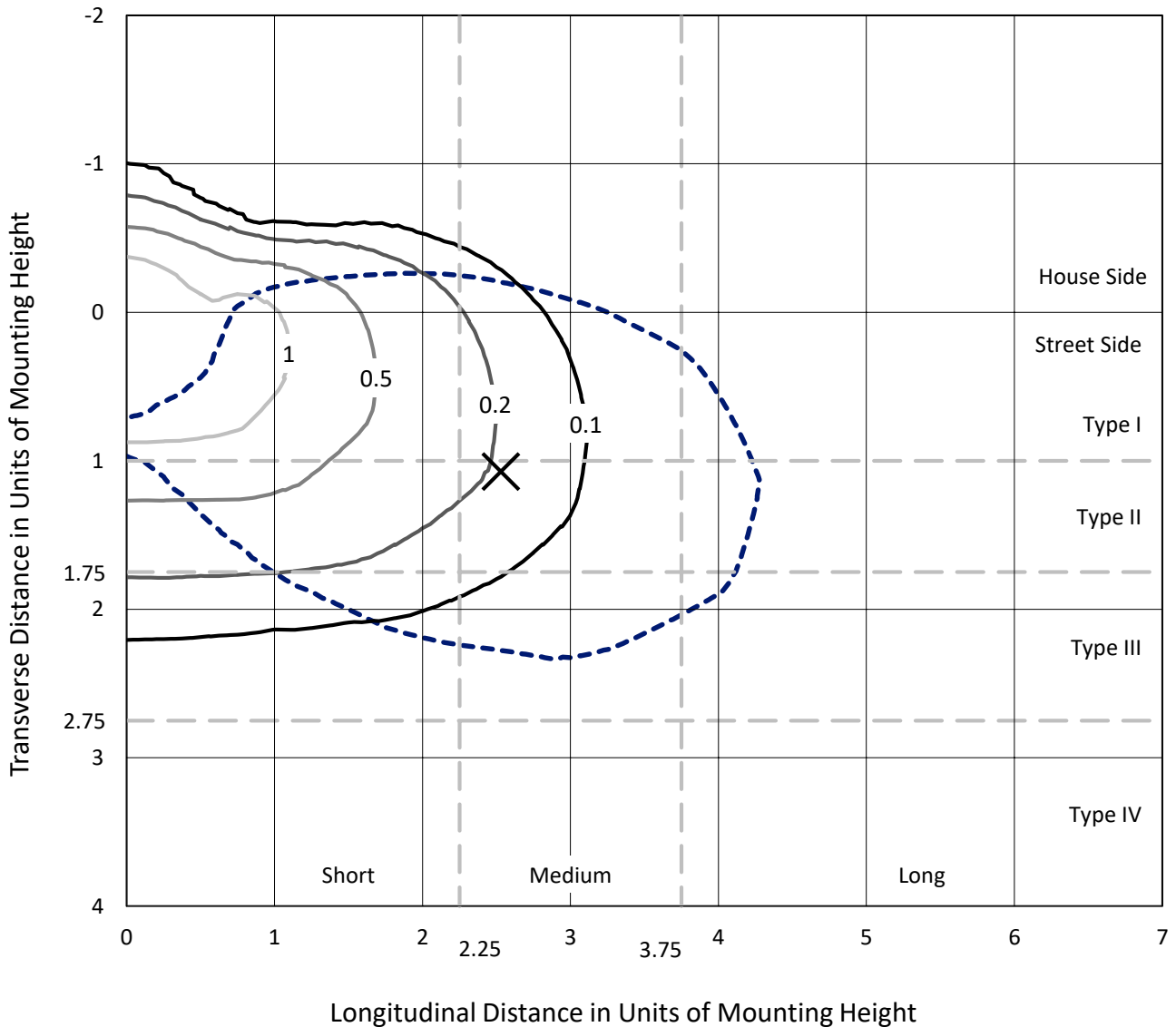


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Iso-Footcandle Lines of Horizontal Illumination

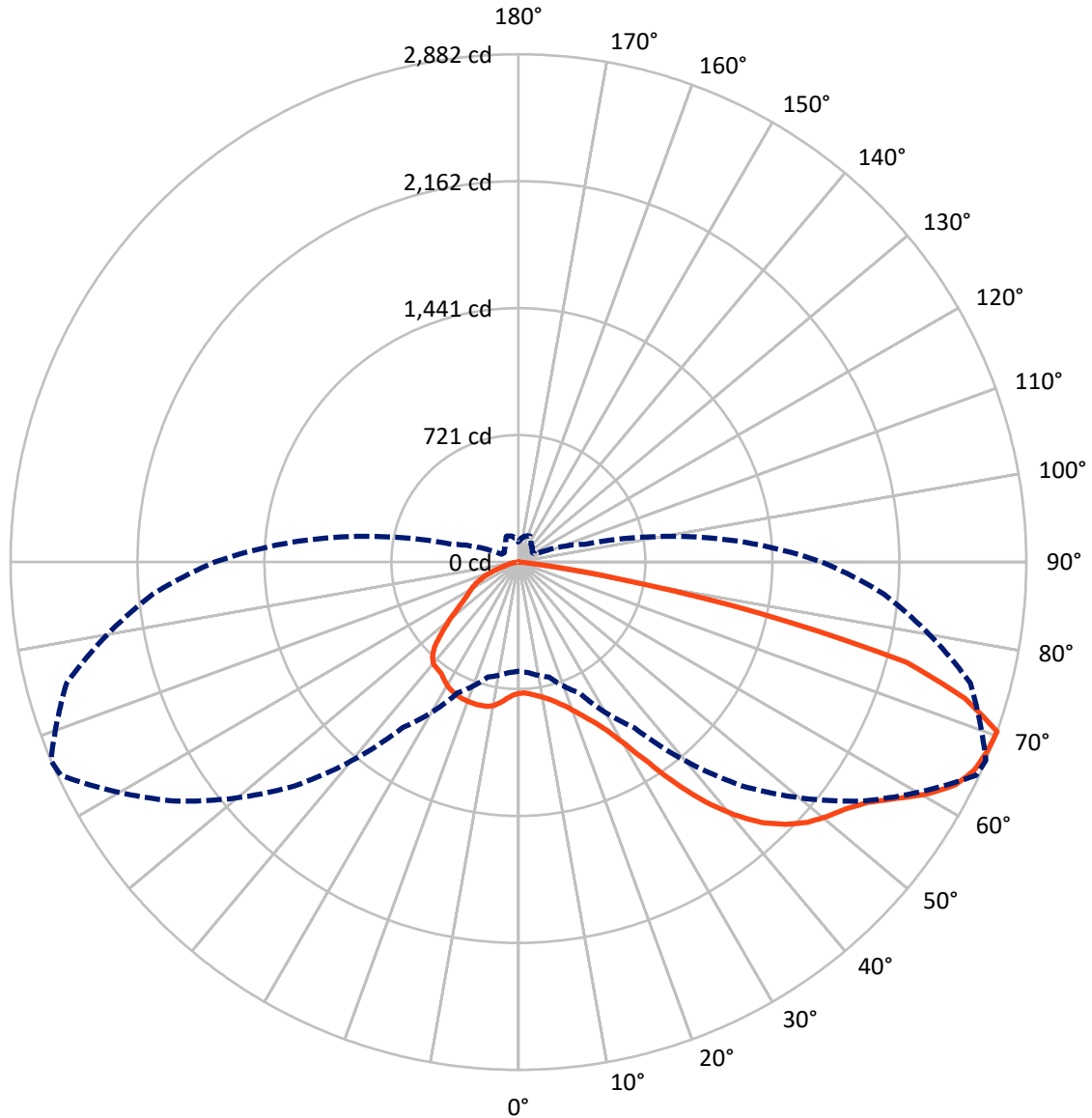
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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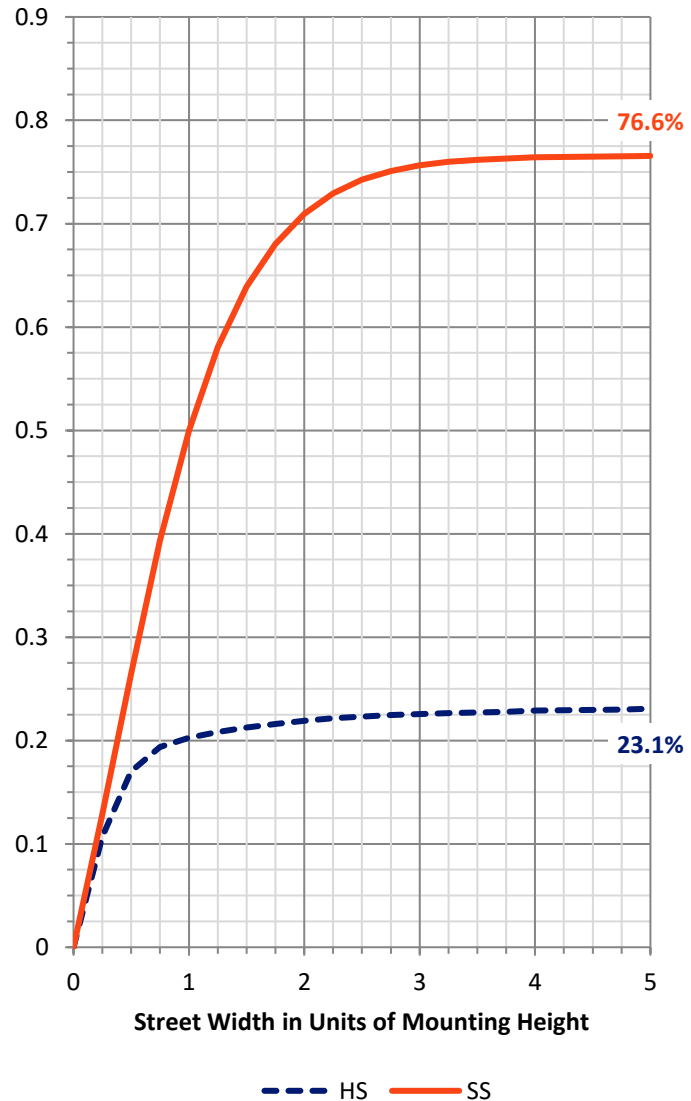
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1201.7	0.0	1201.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	3934.3	0.0	3934.3
	% Fixture	76.6	0.0	76.6
Total	Lumens	5136.0	0.0	5136.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.5
10°-20°	243.5	4.7
20°-30°	429.4	8.4
30°-40°	658.2	12.8
40°-50°	897.1	17.5
50°-60°	1061.6	20.7
60°-70°	1106.7	21.5
70°-80°	619.1	12.1
80°-90°	44.8	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°	5136.0	100.0
0°-180°	5136.0	100.0



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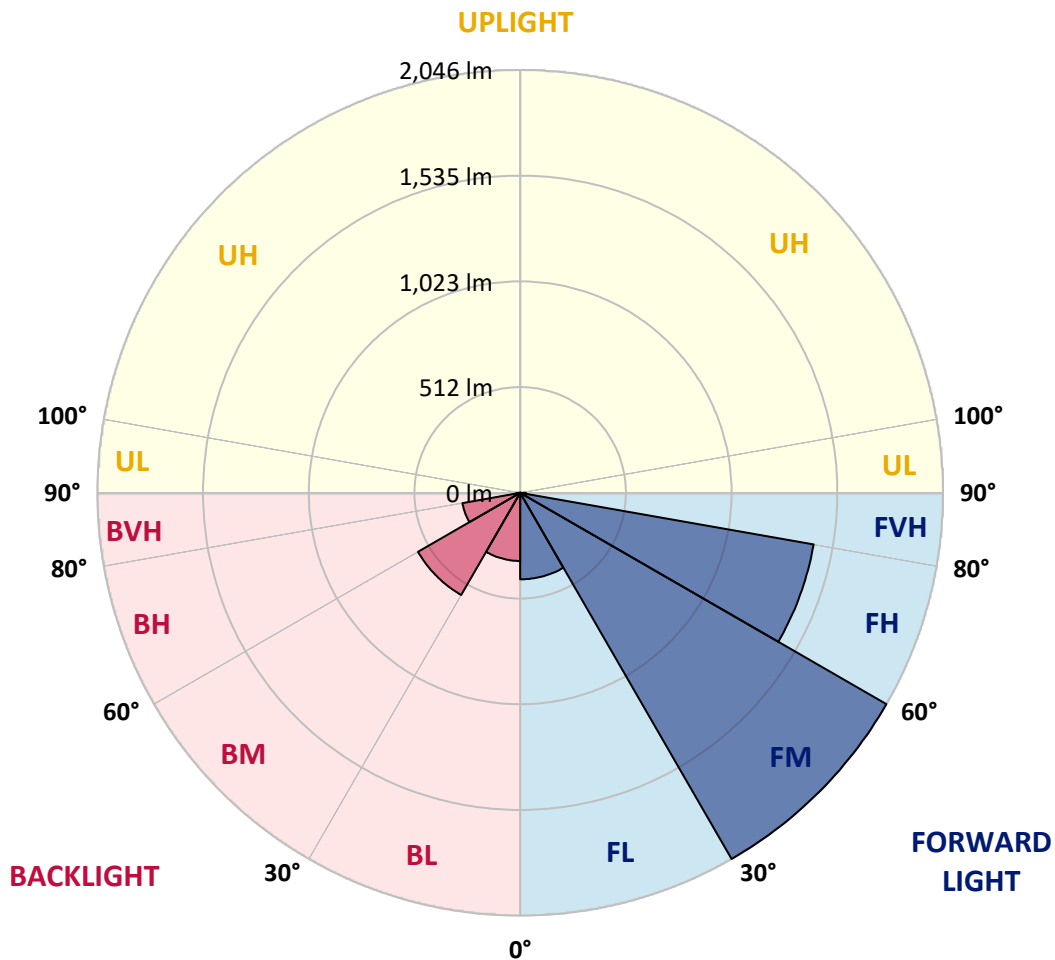
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.6	8.2			
FM	(30°-60°)	2046.2	39.8			
FH	(60°-80°)	1442.1	28.1			G1/1800
FVH	(80°-90°)	27.4	0.5			G1/100
BL	(0°-30°)	329.9	6.4	B1/500		
BM	(30°-60°)	570.7	11.1	B1/1000		
BH	(60°-80°)	283.7	5.5	B1/500		G1/500
BVH	(80°-90°)	17.3	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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	747.9	747.9	747.9	746.4	746.4	746.4	745.0	743.5	743.5	745.0	745.0
5°	766.9	766.9	765.4	763.9	761.0	758.1	755.2	753.7	753.7	753.7	755.2
7.5°	793.1	791.6	788.7	787.3	782.9	778.5	772.7	766.9	766.9	763.9	766.9
10°	825.2	825.2	820.8	817.9	812.0	800.4	791.6	782.9	781.4	778.5	782.9
12.5°	866.0	866.0	863.1	855.8	847.0	832.5	816.4	801.8	800.4	796.0	804.8
15°	915.6	911.2	909.7	903.9	887.9	868.9	847.0	828.1	828.1	820.8	831.0
17.5°	971.0	969.5	968.0	960.8	941.8	914.1	884.9	863.1	858.7	854.3	860.2
20°	1038.0	1036.6	1035.1	1023.4	1001.6	968.0	933.1	903.9	901.0	896.6	892.2
22.5°	1115.3	1115.3	1109.5	1100.7	1070.1	1030.7	988.5	952.0	952.0	947.6	927.2
25°	1189.6	1186.7	1183.8	1173.6	1148.8	1106.5	1057.0	1014.7	1008.9	1008.9	973.9
27.5°	1258.2	1258.2	1262.5	1256.7	1231.9	1188.2	1138.6	1090.5	1087.6	1081.8	1027.8
30°	1329.6	1332.5	1334.0	1334.0	1322.3	1288.8	1234.8	1198.4	1204.2	1189.6	1108.0
32.5°	1383.5	1386.5	1405.4	1422.9	1412.7	1393.7	1363.1	1351.5	1357.3	1369.0	1280.0
35°	1434.6	1438.9	1465.2	1501.6	1517.7	1508.9	1513.3	1533.7	1546.8	1593.5	1516.2
37.5°	1472.5	1476.8	1500.2	1545.4	1593.5	1618.3	1659.1	1704.3	1729.1	1788.8	1678.0
40°	1482.7	1490.0	1538.1	1599.3	1672.2	1746.6	1796.1	1854.4	1885.1	1912.8	1787.4
42.5°	1447.7	1455.0	1517.7	1646.0	1748.0	1861.7	1915.7	1995.9	2020.6	2004.6	1871.9
45°	1425.8	1430.2	1494.3	1641.6	1813.6	1972.5	2025.0	2109.6	2124.2	2084.8	1944.8
47.5°	1395.2	1399.6	1468.1	1634.3	1866.1	2068.8	2105.2	2188.3	2207.3	2151.9	2000.2
50°	1350.0	1355.8	1434.6	1621.2	1901.1	2134.4	2173.7	2259.7	2269.9	2211.6	2058.5
52.5°	1296.1	1304.8	1387.9	1593.5	1924.4	2176.6	2227.7	2316.6	2326.8	2288.9	2121.2
55°	1230.5	1239.2	1328.1	1552.7	1917.1	2189.8	2251.0	2389.5	2407.0	2376.4	2175.2
57.5°	1166.3	1172.1	1264.0	1492.9	1876.3	2210.2	2321.0	2507.6	2530.9	2466.8	2218.9
60°	1089.0	1102.2	1191.1	1411.2	1813.6	2230.6	2411.4	2649.0	2670.9	2554.2	2252.4
62.5°	1008.9	1020.5	1099.3	1309.2	1715.9	2211.6	2479.9	2771.5	2784.6	2624.2	2264.1
65°	915.6	917.0	989.9	1179.4	1576.0	2134.4	2485.7	2831.2	2844.4	2667.9	2243.7
67.5°	791.6	791.6	852.9	1014.7	1387.9	1994.4	2433.2	2850.2	2869.1	2697.1	2194.1
70°	619.6	629.8	676.5	820.8	1148.8	1796.1	2366.2	2864.8	2882.3	2654.8	2081.9
72.5°	433.0	430.1	478.2	565.7	831.0	1433.1	2111.0	2650.5	2650.5	2439.1	1876.3
75°	132.7	148.7	170.6	228.9	379.1	960.8	1729.1	2246.6	2275.8	2112.5	1546.8
77.5°	43.7	43.7	51.0	62.7	81.6	204.1	864.5	1376.3	1399.6	1374.8	957.8
80°	35.0	35.0	39.4	45.2	52.5	105.0	304.7	516.1	554.0	610.9	396.5
82.5°	24.8	24.8	26.2	27.7	26.2	42.3	80.2	137.0	140.0	151.6	128.3
85°	16.0	14.6	14.6	13.1	11.7	11.7	10.2	10.2	11.7	11.7	14.6
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.4	4.4	4.4	4.4
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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	746.4	747.9	752.3	755.2	758.1	761.0	762.5	763.9	763.9	765.4	765.4
5°	756.6	759.6	766.9	774.1	785.8	797.5	807.7	813.5	815.0	820.8	820.8
7.5°	769.8	774.1	791.6	804.8	822.3	835.4	847.0	852.9	858.7	861.6	861.6
10°	790.2	796.0	813.5	828.1	842.7	852.9	860.2	864.5	866.0	867.4	867.4
12.5°	810.6	817.9	828.1	839.7	848.5	854.3	858.7	860.2	860.2	860.2	860.2
15°	832.5	835.4	838.3	841.2	845.6	847.0	847.0	845.6	842.7	841.2	841.2
17.5°	854.3	851.4	847.0	841.2	835.4	831.0	825.2	819.3	815.0	812.0	813.5
20°	880.6	871.8	852.9	838.3	822.3	806.2	793.1	781.4	772.7	771.2	772.7
22.5°	911.2	893.7	863.1	832.5	804.8	775.6	747.9	731.9	723.1	715.8	715.8
25°	947.6	919.9	871.8	823.7	780.0	733.3	695.4	670.6	656.1	647.3	650.2
27.5°	989.9	954.9	880.6	810.6	743.5	682.3	632.7	593.4	577.3	565.7	567.1
30°	1051.1	995.7	890.8	791.6	696.9	619.6	554.0	507.3	479.6	470.9	473.8
32.5°	1188.2	1083.2	902.4	763.9	644.4	545.3	457.8	400.9	371.8	371.8	370.3
35°	1417.1	1265.5	930.1	730.4	586.1	462.2	349.9	297.4	296.0	301.8	303.2
37.5°	1577.4	1433.1	1016.2	698.3	521.9	361.6	259.5	244.9	259.5	265.3	263.9
40°	1681.0	1533.7	1115.3	664.8	431.5	259.5	205.6	195.4	209.9	221.6	230.3
42.5°	1765.5	1603.7	1160.5	621.1	322.2	186.6	151.6	148.7	170.6	186.6	192.4
45°	1832.6	1667.8	1166.3	559.8	218.7	138.5	123.9	137.0	163.3	176.4	177.9
47.5°	1886.5	1720.3	1150.3	462.2	145.8	121.0	121.0	138.5	163.3	176.4	176.4
50°	1939.0	1764.1	1109.5	376.1	131.2	118.1	122.5	140.0	161.8	172.0	172.0
52.5°	1982.7	1793.2	1038.0	300.3	126.8	115.2	122.5	140.0	158.9	163.3	160.4
55°	2022.1	1804.9	973.9	242.0	122.5	113.7	125.4	142.9	157.5	157.5	151.6
57.5°	2044.0	1777.2	925.8	199.7	118.1	113.7	126.8	145.8	161.8	164.7	160.4
60°	2044.0	1737.8	873.3	176.4	115.2	113.7	126.8	156.0	192.4	177.9	176.4
62.5°	2016.3	1695.5	794.6	157.5	110.8	115.2	128.3	173.5	234.7	176.4	169.1
65°	1968.2	1613.9	691.0	140.0	106.4	116.6	126.8	199.7	279.9	170.6	150.2
67.5°	1877.8	1484.1	562.7	122.5	100.6	113.7	123.9	183.7	172.0	141.4	126.8
70°	1721.8	1290.2	390.7	106.4	96.2	110.8	123.9	161.8	153.1	129.8	113.7
72.5°	1490.0	1058.4	209.9	87.5	84.6	105.0	121.0	148.7	131.2	106.4	96.2
75°	1144.4	752.3	128.3	68.5	70.0	93.3	112.3	141.4	125.4	102.1	88.9
77.5°	660.4	348.4	91.8	51.0	49.6	74.4	100.6	131.2	122.5	99.1	86.0
80°	242.0	144.3	62.7	37.9	33.5	53.9	78.7	106.4	116.6	97.7	87.5
82.5°	103.5	77.3	40.8	26.2	24.8	30.6	48.1	74.4	97.7	78.7	72.9
85°	14.6	14.6	14.6	13.1	14.6	19.0	20.4	36.4	53.9	29.2	29.2
87.5°	5.8	5.8	5.8	5.8	7.3	7.3	5.8	5.8	4.4	4.4	4.4
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)