

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: P507533

Luminaire Tested: **VERD-S-CA1-40-727-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
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-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 760mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5114 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

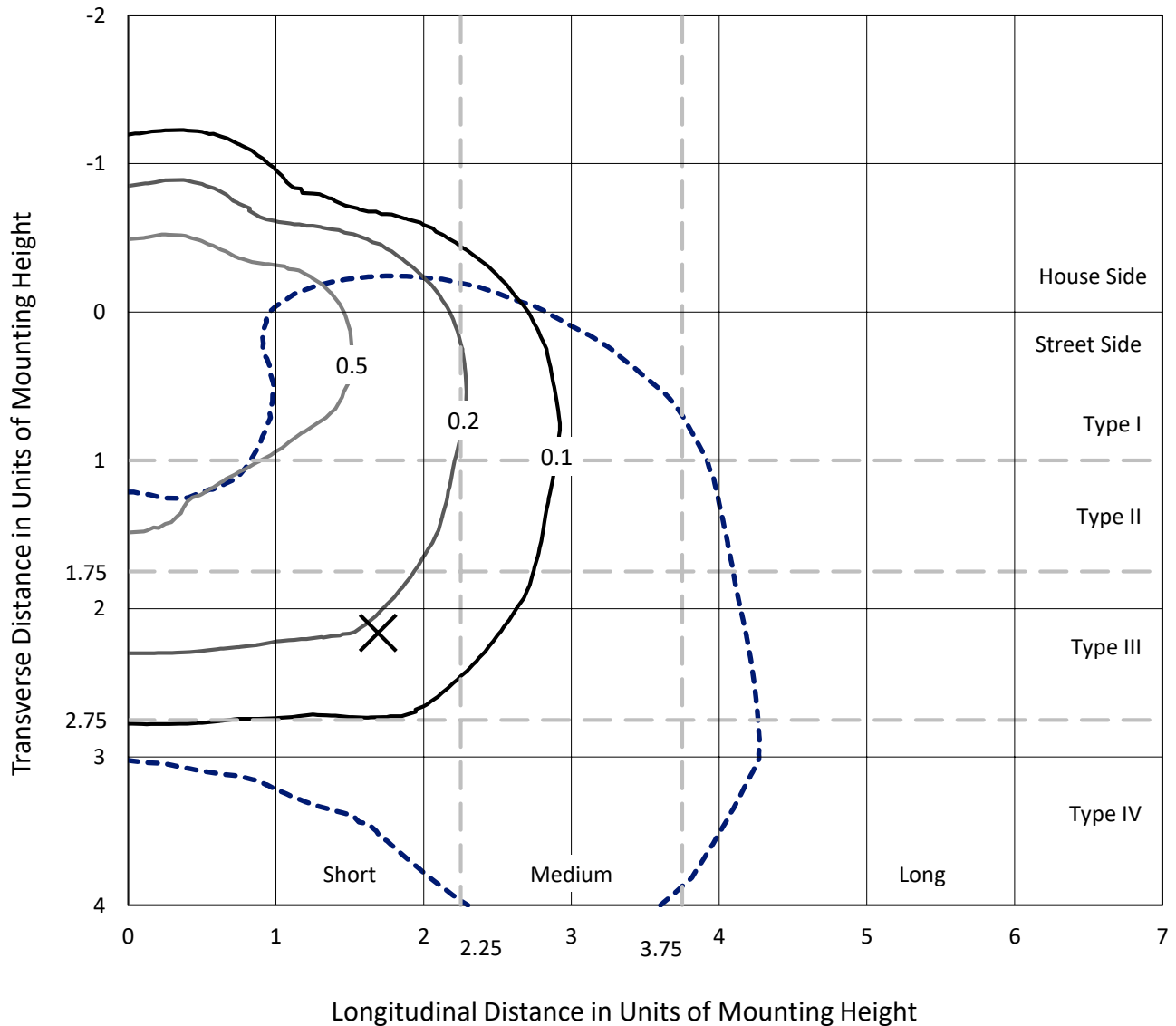
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

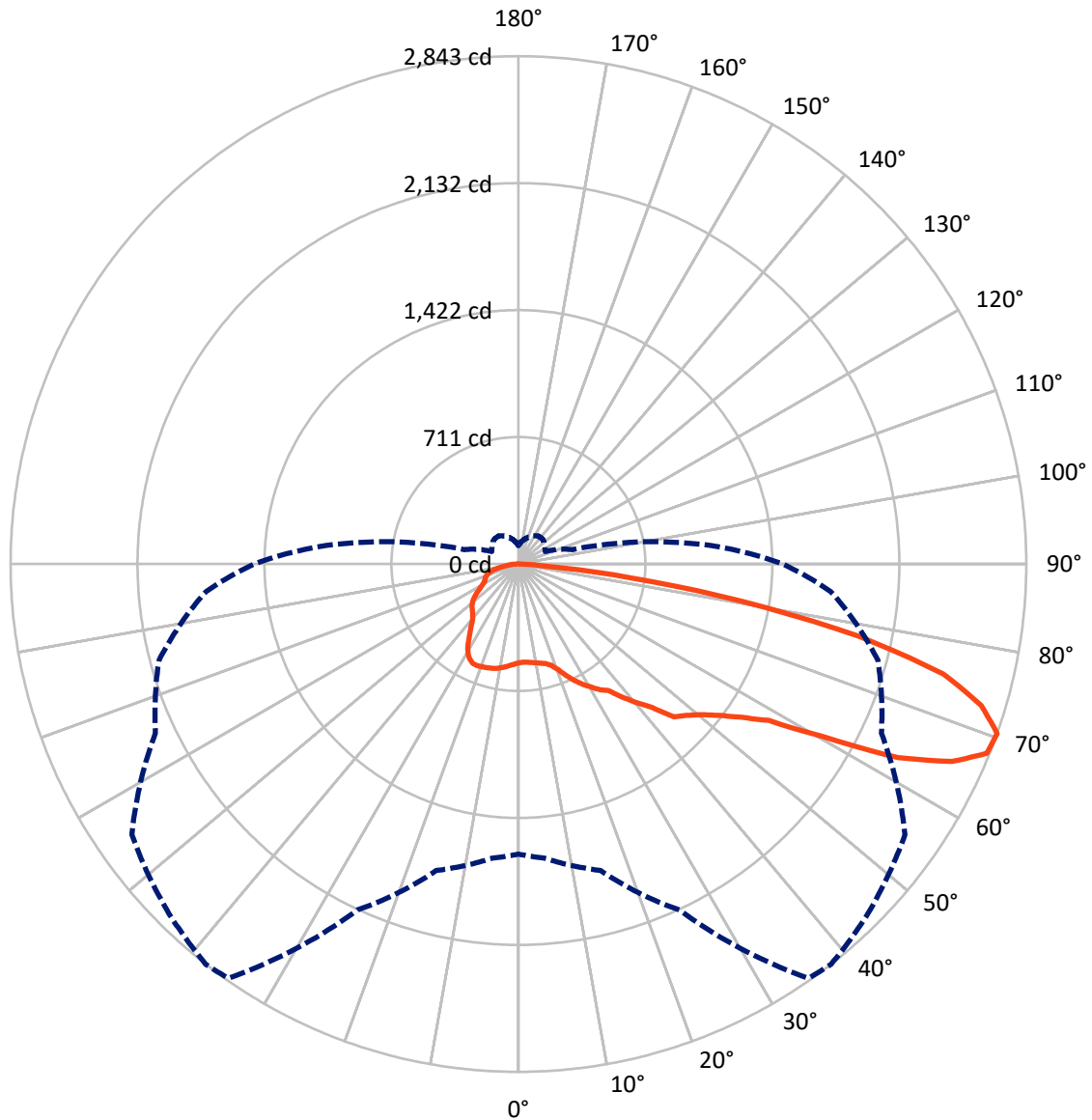
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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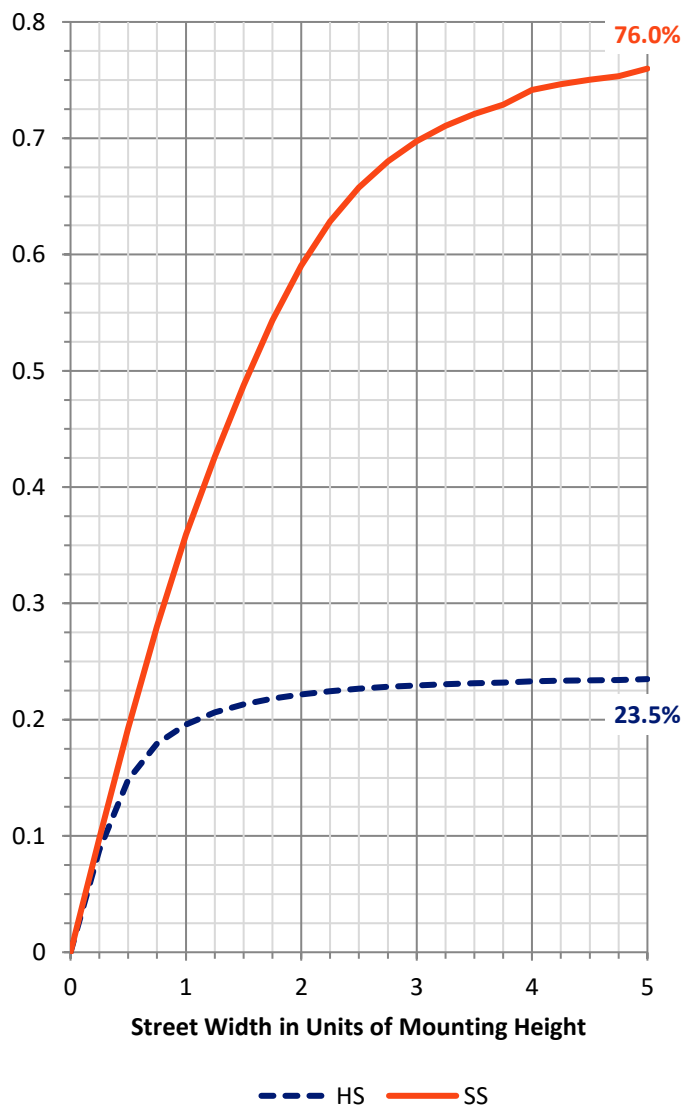
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.6	0.0	1214.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3899.4	0.0	3899.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	5114.0	0.0	5114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.1
10°-20°	169.8	3.3
20°-30°	315.0	6.2
30°-40°	487.7	9.5
40°-50°	722.7	14.1
50°-60°	1007.0	19.7
60°-70°	1293.2	25.3
70°-80°	946.1	18.5
80°-90°	118.5	2.3
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°	5114.0	100.0
0°-180°	5114.0	100.0

Coefficient of Utilization



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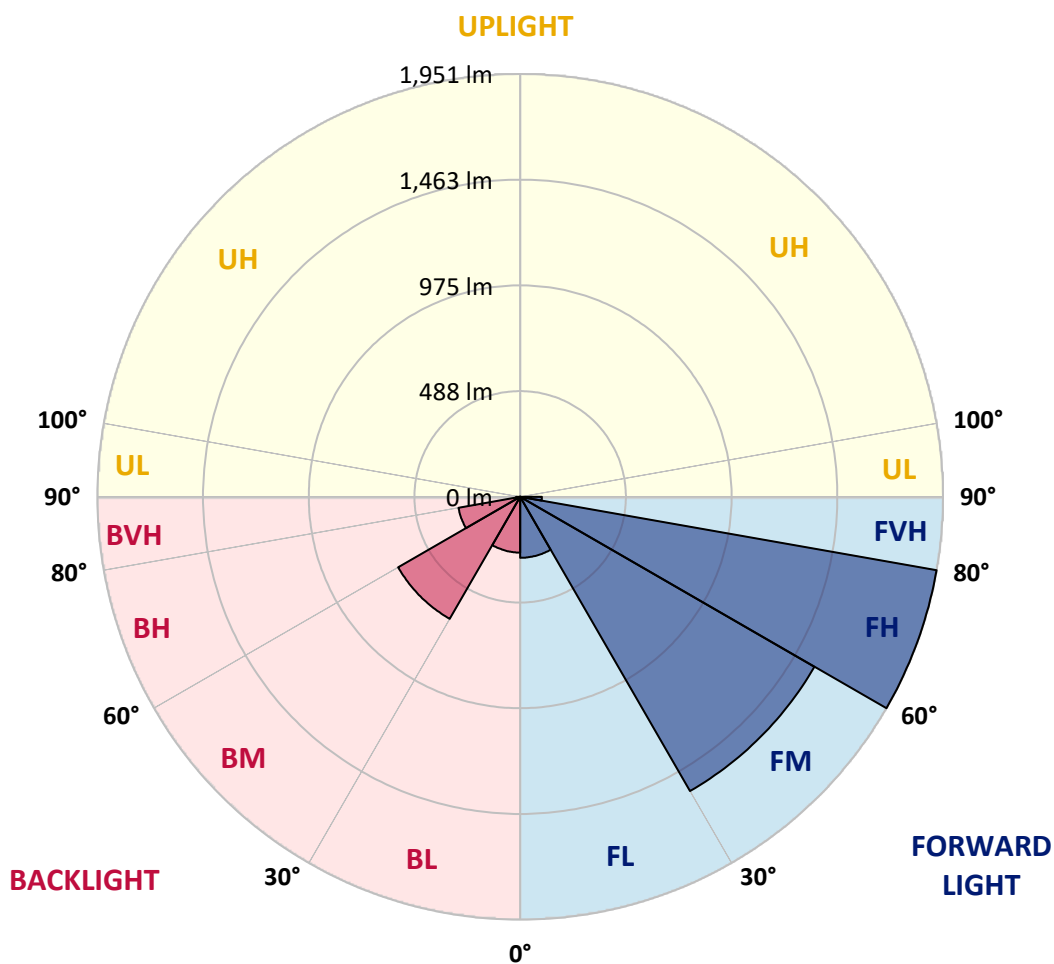
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.4	5.5			
FM (30°-60°)	1567.3	30.6			
FH (60°-80°)	1950.5	38.1			G2/5000
FVH (80°-90°)	100.1	2.0			G2/225
BL (0°-30°)	257.3	5.0	B1/500		
BM (30°-60°)	650.1	12.7	B1/1000		
BH (60°-80°)	288.8	5.6	B1/500		G1/500
BVH (80°-90°)	18.4	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6
2.5°	551.1	551.1	551.1	549.7	549.7	549.7	548.2	548.2	549.7	551.1	551.1
5°	555.5	555.5	554.0	554.0	552.6	552.6	552.6	551.1	551.1	551.1	554.0
7.5°	557.0	557.0	557.0	557.0	557.0	557.0	558.4	557.0	557.0	557.0	559.9
10°	557.0	557.0	558.4	558.4	561.3	562.8	564.3	567.2	567.2	567.2	568.6
12.5°	559.9	559.9	561.3	562.8	567.2	570.1	573.0	577.4	578.8	578.8	580.3
15°	565.7	565.7	567.2	571.5	577.4	578.8	583.2	589.0	594.9	596.3	597.8
17.5°	589.0	589.0	589.0	589.0	594.9	596.3	602.2	610.9	616.7	619.7	624.0
20°	635.7	637.2	634.2	632.8	629.9	629.9	629.9	634.2	641.5	651.7	659.0
22.5°	695.5	695.5	695.5	683.8	676.5	675.1	675.1	673.6	679.4	689.6	699.8
25°	742.1	743.6	742.1	731.9	723.2	720.3	720.3	724.6	724.6	733.4	745.0
27.5°	780.0	783.0	778.6	769.8	762.5	761.1	762.5	775.7	783.0	788.8	803.4
30°	820.9	822.3	812.1	806.3	801.9	799.0	800.5	819.4	844.2	851.5	876.3
32.5°	896.7	896.7	882.1	848.6	836.9	838.4	838.4	863.1	896.7	930.2	962.3
35°	968.1	966.7	953.5	924.4	880.6	870.4	876.3	902.5	955.0	1011.9	1068.7
37.5°	1052.7	1049.8	1038.1	997.3	960.8	944.8	912.7	947.7	1011.9	1124.1	1182.5
40°	1147.5	1143.1	1116.8	1076.0	1027.9	1020.6	992.9	998.7	1083.3	1242.2	1309.3
42.5°	1199.9	1197.0	1179.5	1146.0	1111.0	1096.4	1073.1	1065.8	1179.5	1395.3	1428.9
45°	1249.5	1255.4	1255.4	1239.3	1224.7	1221.8	1205.8	1211.6	1303.5	1520.7	1533.8
47.5°	1280.1	1286.0	1267.0	1264.1	1264.1	1265.6	1281.6	1321.0	1415.7	1638.8	1625.7
50°	1372.0	1367.6	1291.8	1303.5	1316.6	1325.3	1360.3	1423.0	1571.7	1745.2	1705.9
52.5°	1538.2	1498.8	1408.4	1382.2	1389.5	1407.0	1453.6	1535.3	1730.7	1840.0	1775.9
55°	1743.8	1720.5	1638.8	1522.2	1484.3	1513.4	1563.0	1646.1	1853.1	1929.0	1831.3
57.5°	1882.3	1891.0	1901.3	1821.1	1644.6	1651.9	1685.5	1755.4	1975.6	2015.0	1875.0
60°	2022.3	2032.5	2089.3	2068.9	2028.1	1961.0	1838.6	1872.1	2067.5	2071.8	1907.1
62.5°	2133.1	2140.4	2224.9	2271.6	2378.0	2386.8	2195.8	2019.4	2163.7	2117.0	1920.2
65°	2077.7	2090.8	2217.6	2347.4	2640.5	2665.3	2602.6	2208.9	2238.1	2134.5	1910.0
67.5°	1891.0	1910.0	2044.1	2319.7	2808.1	2827.1	2765.9	2566.1	2264.3	2127.2	1860.4
70°	1624.2	1651.9	1775.9	2137.4	2831.5	2843.1	2767.3	2641.9	2242.4	2083.5	1754.0
72.5°	1321.0	1342.8	1468.2	1832.7	2690.0	2709.0	2685.7	2579.2	2195.8	1998.9	1539.7
75°	1011.9	1013.3	1146.0	1436.1	2380.9	2456.8	2496.1	2458.2	2068.9	1758.4	1185.4
77.5°	638.6	657.6	793.2	1087.7	1870.6	1947.9	1965.4	1918.7	1447.8	1078.9	510.3
80°	287.2	316.4	454.9	734.8	1272.8	1269.9	1280.1	1165.0	771.3	342.6	56.9
82.5°	103.5	109.4	191.0	368.9	616.7	632.8	625.5	538.0	208.5	48.1	35.0
85°	43.7	46.7	62.7	99.1	140.0	148.7	128.3	97.7	33.5	27.7	23.3
87.5°	2.9	2.9	2.9	2.9	2.9	4.4	4.4	4.4	4.4	5.8	7.3
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°	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6	552.6
2.5°	551.1	552.6	554.0	557.0	557.0	558.4	559.9	561.3	561.3	561.3	561.3
5°	555.5	557.0	558.4	562.8	565.7	567.2	570.1	571.5	573.0	573.0	573.0
7.5°	561.3	562.8	565.7	570.1	574.5	577.4	580.3	581.7	583.2	583.2	583.2
10°	570.1	573.0	577.4	583.2	587.6	587.6	589.0	590.5	592.0	592.0	592.0
12.5°	581.7	584.7	592.0	599.2	600.7	599.2	596.3	596.3	594.9	593.4	593.4
15°	600.7	602.2	612.4	618.2	613.8	606.5	600.7	594.9	590.5	587.6	587.6
17.5°	626.9	631.3	641.5	641.5	629.9	616.7	602.2	587.6	575.9	571.5	570.1
20°	664.9	670.7	679.4	670.7	651.7	628.4	602.2	578.8	555.5	540.9	536.5
22.5°	707.1	714.4	717.3	698.4	670.7	638.6	603.6	567.2	529.3	497.2	488.4
25°	756.7	761.1	750.9	720.3	682.4	641.5	599.2	551.1	492.8	450.5	446.2
27.5°	815.0	810.7	783.0	736.3	685.3	635.7	583.2	519.1	446.2	414.1	409.7
30°	877.7	861.7	810.7	745.0	676.5	618.2	555.5	470.9	411.2	384.9	382.0
32.5°	952.1	920.0	836.9	746.5	660.5	587.6	510.3	431.6	387.8	358.7	355.8
35°	1035.2	985.6	860.2	737.8	628.4	545.3	456.4	402.4	363.0	335.3	329.5
37.5°	1147.5	1074.6	889.4	718.8	587.6	491.4	417.0	371.8	338.3	307.6	303.3
40°	1262.6	1176.6	930.2	696.9	542.4	447.6	383.5	349.9	320.8	285.8	278.5
42.5°	1377.8	1278.7	985.6	670.7	497.2	414.1	368.9	347.0	312.0	275.6	268.3
45°	1472.6	1366.2	1038.1	640.1	452.0	383.5	360.1	341.2	306.2	266.8	258.1
47.5°	1554.2	1439.1	1083.3	612.4	408.2	360.1	352.8	331.0	297.4	258.1	249.3
50°	1622.8	1497.4	1119.8	589.0	371.8	344.1	338.3	312.0	277.0	243.5	237.7
52.5°	1682.5	1539.7	1135.8	581.7	335.3	325.1	314.9	288.7	256.6	226.0	217.2
55°	1721.9	1571.7	1132.9	581.7	300.4	298.9	287.2	266.8	243.5	218.7	210.0
57.5°	1752.5	1586.3	1111.0	497.2	271.2	265.4	258.1	249.3	234.7	207.0	198.3
60°	1767.1	1577.6	1064.4	361.6	242.0	231.8	237.7	234.7	220.2	182.3	176.4
62.5°	1758.4	1551.3	959.4	263.9	211.4	210.0	218.7	212.9	185.2	151.6	148.7
65°	1724.8	1485.7	825.2	198.3	193.9	204.1	208.5	196.8	170.6	140.0	128.3
67.5°	1638.8	1358.9	600.7	177.9	188.1	199.7	202.7	186.6	160.4	131.2	116.6
70°	1479.9	1119.8	312.0	164.8	179.3	193.9	192.5	172.0	145.8	119.6	102.1
72.5°	1199.9	794.6	118.1	147.3	166.2	180.8	177.9	154.5	103.5	74.4	67.1
75°	778.6	380.5	102.1	126.8	148.7	161.8	163.3	140.0	90.4	62.7	53.9
77.5°	266.8	70.0	83.1	105.0	128.3	145.8	141.4	112.3	70.0	46.7	42.3
80°	45.2	46.7	64.2	74.4	88.9	116.6	99.1	80.2	55.4	33.5	27.7
82.5°	32.1	39.4	45.2	43.7	61.2	77.3	67.1	53.9	36.5	26.2	23.3
85°	23.3	26.2	24.8	26.2	35.0	51.0	46.7	37.9	26.2	19.0	16.0
87.5°	8.7	8.7	11.7	14.6	21.9	32.1	27.7	11.7	10.2	8.7	8.7
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)