

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: P507569

Luminaire Tested: **VERD-S-CA1-50-722-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507569
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-CA1-50-722-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 940mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6059 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): 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

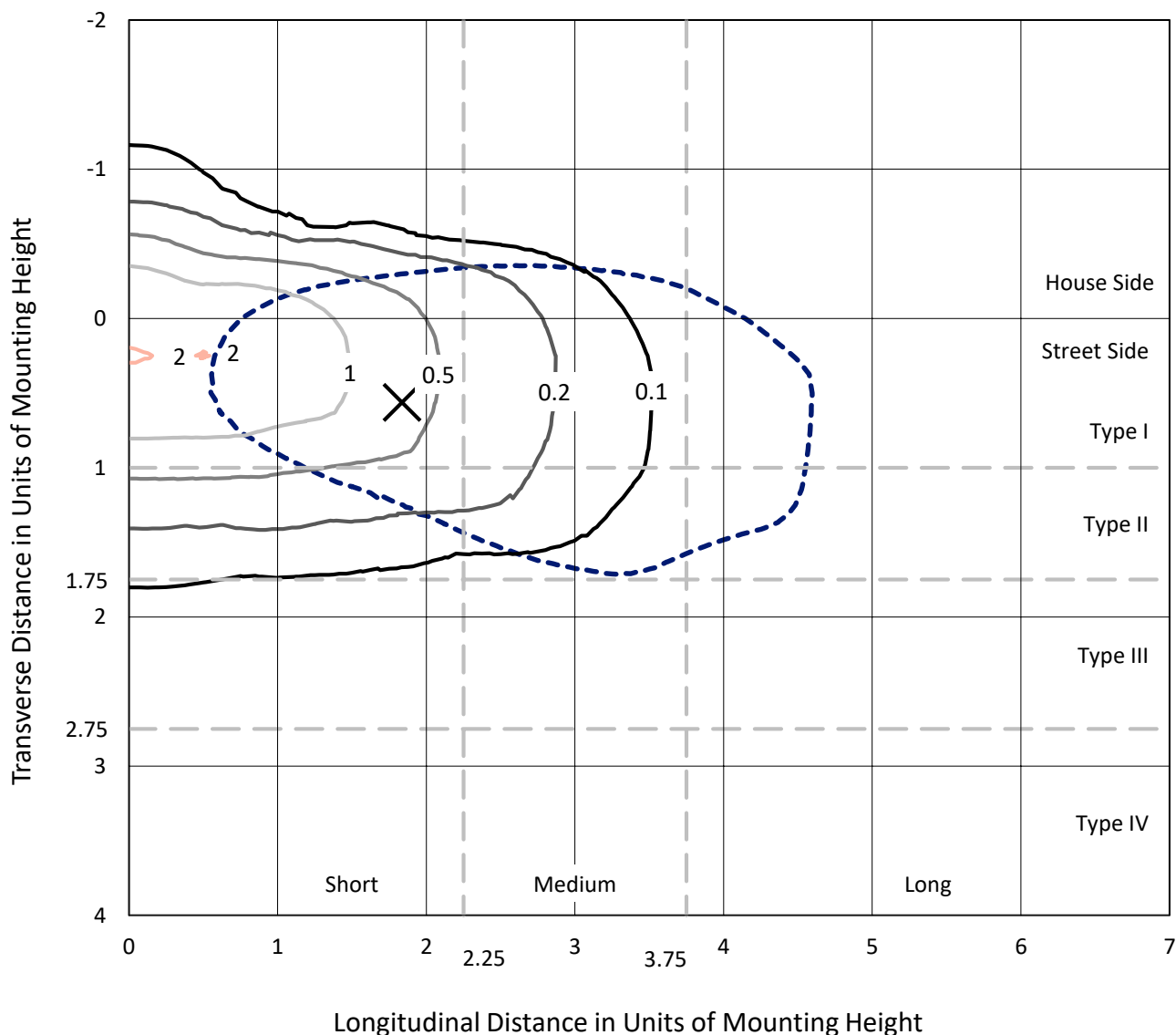


REPORT NUMBER: P507569

CATALOG NUMBER: VERD-S-CA1-50-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

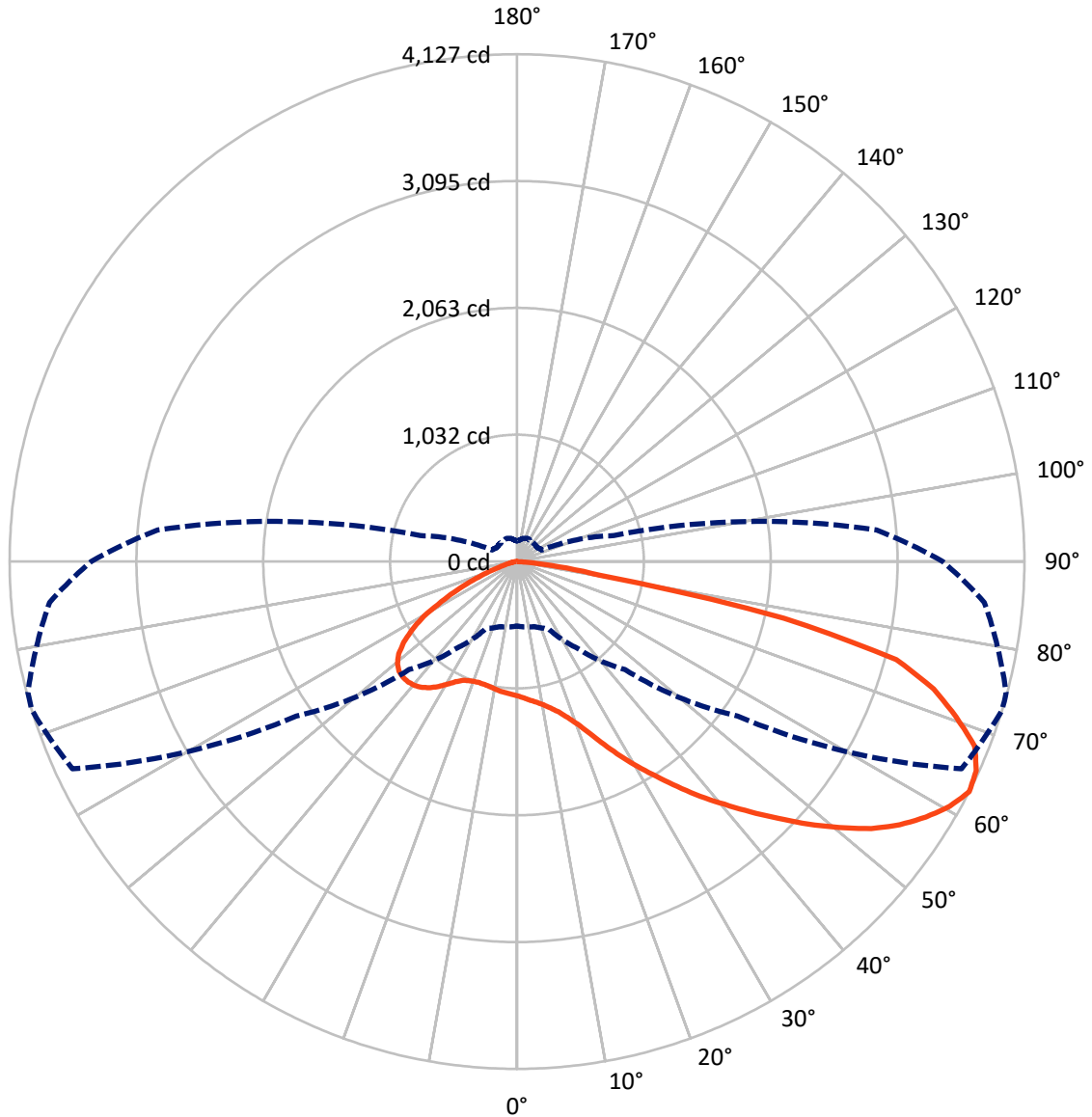
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P507569
CATALOG NUMBER: VERD-S-CA1-50-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P507569

CATALOG NUMBER: VERD-S-CA1-50-722-U-T2

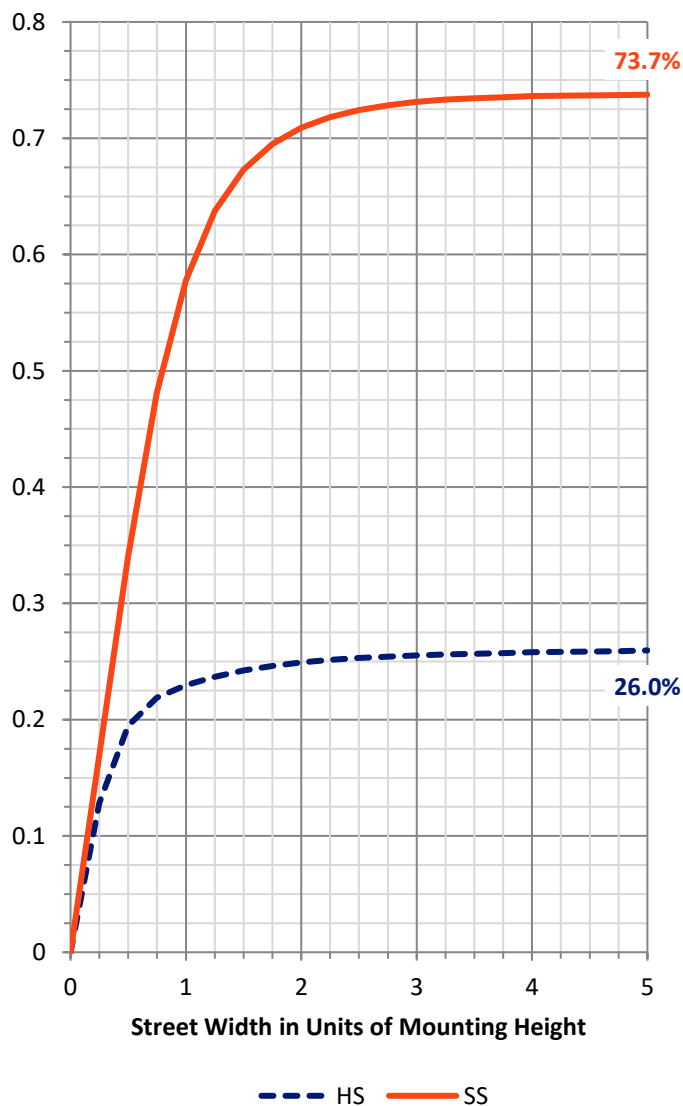
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1596.0	0.0	1596.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	4463.0	0.0	4463.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	6059.0	0.0	6059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.7
10°-20°	323.3	5.3
20°-30°	559.6	9.2
30°-40°	810.5	13.4
40°-50°	1038.1	17.1
50°-60°	1201.9	19.8
60°-70°	1210.3	20.0
70°-80°	739.9	12.2
80°-90°	69.7	1.1
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°	6059.0	100.0
0°-180°	6059.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507569

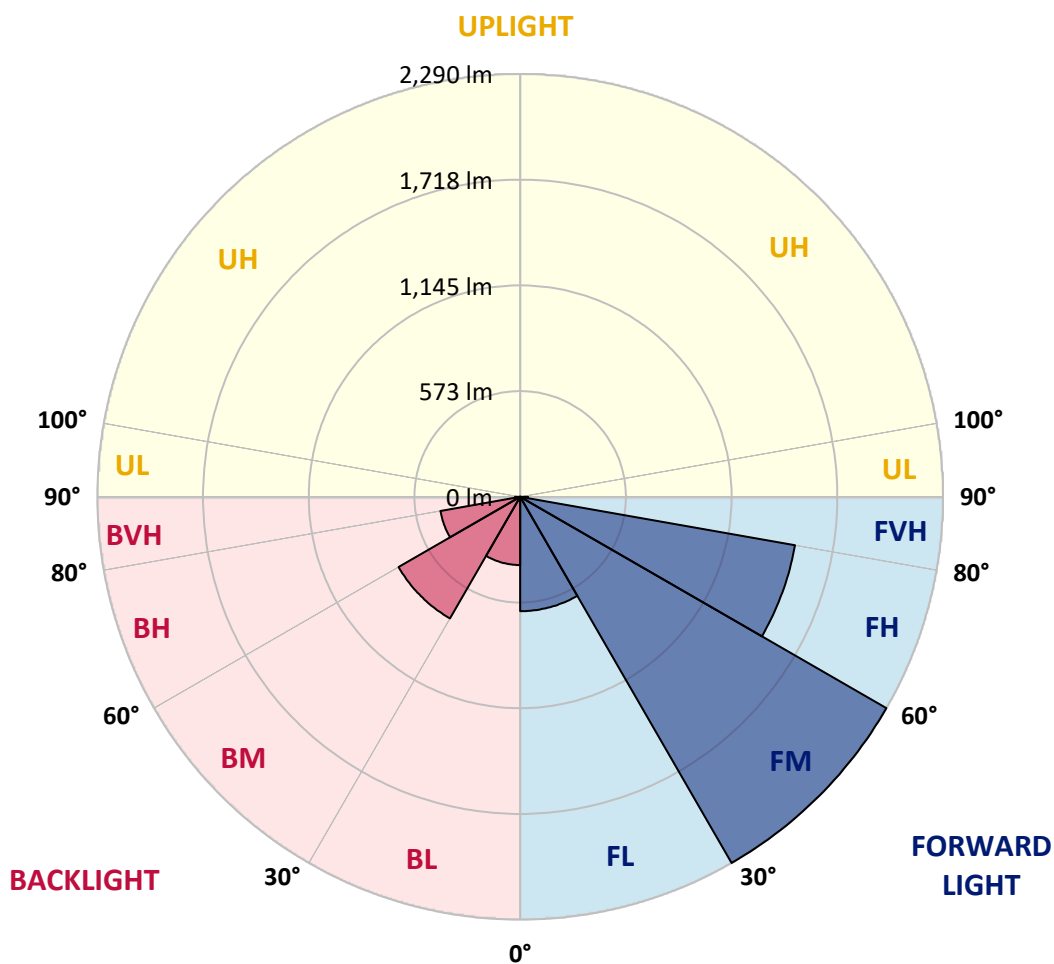
CATALOG NUMBER: VERD-S-CA1-50-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.3	10.2			
FM (30°-60°)	2290.1	37.8			
FH (60°-80°)	1511.5	24.9			G1/1800
FVH (80°-90°)	42.1	0.7			G1/100
BL (0°-30°)	369.4	6.1	B1/500		
BM (30°-60°)	760.3	12.5	B1/1000		
BH (60°-80°)	438.7	7.2	B1/500		G1/500
BVH (80°-90°)	27.6	0.5			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 II Short





REPORT NUMBER: P507569
 CATALOG NUMBER: VERD-S-CA1-50-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4
2.5°	1150.8	1149.1	1145.7	1143.9	1140.5	1132.0	1126.9	1118.3	1111.5	1109.8	1099.6
5°	1207.1	1208.8	1207.1	1202.0	1195.2	1183.2	1166.1	1143.9	1133.7	1130.3	1113.2
7.5°	1260.0	1260.0	1258.3	1251.5	1244.7	1229.3	1205.4	1179.8	1155.9	1149.1	1126.9
10°	1311.3	1311.3	1306.1	1299.3	1289.1	1270.3	1246.4	1213.9	1184.9	1174.7	1137.1
12.5°	1365.9	1364.2	1357.4	1347.1	1333.5	1318.1	1292.5	1256.6	1224.2	1212.2	1159.3
15°	1408.6	1408.6	1403.5	1396.6	1384.7	1365.9	1342.0	1311.3	1268.6	1258.3	1190.0
17.5°	1446.1	1447.9	1444.4	1444.4	1434.2	1420.5	1400.1	1374.4	1333.5	1318.1	1236.1
20°	1476.9	1475.2	1482.0	1487.1	1490.5	1482.0	1470.1	1453.0	1412.0	1396.6	1295.9
22.5°	1490.5	1494.0	1514.4	1540.1	1555.4	1557.1	1555.4	1553.7	1517.9	1497.4	1377.9
25°	1497.4	1502.5	1533.2	1577.6	1611.8	1637.4	1664.7	1681.8	1649.3	1634.0	1500.8
27.5°	1504.2	1509.3	1545.2	1599.8	1664.7	1726.2	1780.8	1813.2	1789.3	1770.6	1627.1
30°	1492.2	1497.4	1538.3	1615.2	1707.4	1814.9	1891.8	1937.9	1934.5	1922.5	1772.3
32.5°	1466.6	1471.8	1517.9	1613.5	1751.8	1905.4	1990.8	2067.6	2083.0	2071.1	1917.4
35°	1420.5	1427.4	1480.3	1593.0	1772.3	1980.6	2095.0	2207.6	2246.9	2248.6	2076.2
37.5°	1357.4	1360.8	1425.7	1553.7	1779.1	2033.5	2182.0	2342.5	2422.8	2424.5	2238.4
40°	1272.0	1280.5	1360.8	1504.2	1763.7	2071.1	2269.1	2489.4	2595.2	2583.3	2414.2
42.5°	1174.7	1181.5	1260.0	1425.7	1727.9	2093.2	2349.4	2643.0	2783.0	2776.2	2579.8
45°	1087.6	1097.8	1157.6	1316.4	1659.6	2098.4	2419.4	2796.7	2977.7	2969.1	2748.9
47.5°	971.5	997.1	1077.4	1219.1	1557.1	2076.2	2482.5	3005.0	3192.8	3180.8	2926.4
50°	747.8	756.4	925.4	1137.1	1441.0	2021.5	2537.2	3197.9	3401.1	3392.6	3112.6
52.5°	674.4	681.2	735.9	1043.2	1324.9	1924.2	2569.6	3445.5	3609.4	3585.5	3279.9
55°	633.4	640.3	671.0	833.2	1224.2	1777.4	2576.4	3655.5	3778.4	3756.2	3437.0
57.5°	595.9	601.0	630.0	713.7	1108.1	1574.2	2540.6	3824.5	3921.8	3899.7	3578.7
60°	556.6	561.7	592.5	648.8	964.7	1388.1	2422.8	3956.0	4043.1	4020.9	3706.7
62.5°	524.2	532.7	548.1	601.0	862.2	1243.0	2192.3	3988.4	4126.7	4118.2	3816.0
65°	484.9	488.3	512.2	554.9	761.5	1142.2	1944.7	3894.5	4104.5	4119.9	3880.9
67.5°	440.5	442.2	464.4	495.1	636.9	1043.2	1724.5	3768.2	4015.8	4041.4	3833.1
70°	380.7	382.5	402.9	435.4	527.6	904.9	1497.4	3582.1	3788.7	3812.6	3648.7
72.5°	317.6	317.6	334.6	370.5	435.4	749.5	1198.6	3174.0	3544.5	3583.8	3348.2
75°	138.3	143.4	172.4	206.6	281.7	551.5	817.8	2456.9	3186.0	3213.3	2935.0
77.5°	37.6	37.6	44.4	58.1	82.0	245.9	259.5	1080.8	2219.6	2289.6	2170.1
80°	30.7	30.7	34.1	44.4	56.3	121.2	87.1	348.3	686.4	904.9	1125.2
82.5°	17.1	17.1	20.5	25.6	30.7	30.7	30.7	177.6	338.1	360.3	471.2
85°	8.5	10.2	10.2	12.0	12.0	10.2	10.2	35.9	64.9	73.4	112.7
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	3.4	5.1	5.1	6.8	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507569
 CATALOG NUMBER: VERD-S-CA1-50-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4	1094.4
2.5°	1096.1	1091.0	1084.2	1079.1	1068.8	1058.6	1051.7	1046.6	1044.9	1043.2	1043.2
5°	1103.0	1094.4	1075.6	1056.9	1041.5	1027.8	1015.9	1007.4	1003.9	1002.2	1002.2
7.5°	1113.2	1101.3	1070.5	1043.2	1015.9	995.4	976.6	964.7	957.8	959.5	964.7
10°	1118.3	1099.6	1058.6	1031.3	995.4	963.0	940.8	927.1	922.0	922.0	920.3
12.5°	1132.0	1104.7	1050.0	1007.4	976.6	932.2	906.6	894.7	887.8	877.6	874.2
15°	1152.5	1118.3	1046.6	990.3	942.5	903.2	869.1	852.0	846.9	833.2	833.2
17.5°	1190.0	1142.2	1046.6	971.5	910.0	872.5	828.1	804.2	800.8	792.2	790.5
20°	1234.4	1174.7	1055.2	952.7	875.9	826.4	776.9	753.0	744.4	735.9	735.9
22.5°	1304.4	1224.2	1070.5	939.1	840.0	778.6	723.9	689.8	676.1	674.4	671.0
25°	1412.0	1302.7	1094.4	925.4	804.2	725.6	671.0	626.6	604.4	601.0	599.3
27.5°	1529.8	1410.3	1142.2	913.4	764.9	665.9	601.0	553.2	525.9	522.5	520.8
30°	1656.2	1521.3	1205.4	903.2	715.4	597.6	524.2	478.1	452.5	445.6	447.3
32.5°	1794.5	1640.8	1273.7	894.7	662.5	508.8	440.5	409.8	382.5	370.5	372.2
35°	1929.3	1746.6	1333.5	887.8	592.5	428.6	375.6	343.2	315.9	300.5	300.5
37.5°	2081.3	1871.3	1383.0	874.2	517.3	373.9	322.7	290.3	269.8	256.1	256.1
40°	2229.8	1995.9	1422.2	848.6	433.7	329.5	266.4	247.6	233.9	225.4	222.0
42.5°	2375.0	2120.6	1447.9	805.9	363.7	276.6	222.0	220.3	222.0	213.4	211.7
45°	2525.2	2243.5	1466.6	737.6	314.2	228.8	198.1	210.0	222.0	218.5	218.5
47.5°	2689.1	2363.0	1482.0	626.6	266.4	201.5	196.3	208.3	223.7	225.4	225.4
50°	2846.2	2484.2	1476.9	484.9	233.9	199.8	198.1	201.5	222.0	227.1	223.7
52.5°	2993.0	2588.4	1435.9	353.4	218.5	203.2	203.2	199.8	216.8	220.3	222.0
55°	3141.6	2685.7	1343.7	280.0	210.0	203.2	211.7	203.2	208.3	210.0	213.4
57.5°	3276.5	2784.7	1207.1	251.0	208.3	203.2	211.7	206.6	206.6	199.8	198.1
60°	3380.6	2866.7	1041.5	239.0	203.2	204.9	208.3	208.3	203.2	187.8	182.7
62.5°	3462.6	2935.0	814.4	223.7	199.8	201.5	199.8	206.6	194.6	172.4	167.3
65°	3508.7	2946.9	623.2	206.6	191.2	198.1	192.9	191.2	181.0	157.1	146.8
67.5°	3457.4	2863.3	435.4	189.5	181.0	192.9	184.4	177.6	165.6	143.4	129.8
70°	3259.4	2620.8	286.8	167.3	167.3	181.0	174.2	163.9	148.5	131.5	116.1
72.5°	2887.2	2258.9	172.4	138.3	148.5	165.6	162.2	148.5	104.2	80.2	70.0
75°	2441.6	1855.9	111.0	104.2	121.2	148.5	150.2	133.2	88.8	71.7	71.7
77.5°	1774.0	1219.1	64.9	58.1	80.2	119.5	128.1	97.3	95.6	133.2	97.3
80°	910.0	590.8	49.5	35.9	42.7	88.8	71.7	73.4	145.1	107.6	68.3
82.5°	394.4	233.9	30.7	25.6	27.3	44.4	46.1	121.2	112.7	63.2	42.7
85°	83.7	44.4	17.1	17.1	17.1	20.5	25.6	131.5	70.0	32.4	13.7
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	6.8	6.8	6.8	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)