

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: P509057

Luminaire Tested: **VERD-CA2-100-722-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-722-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1370mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11428 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

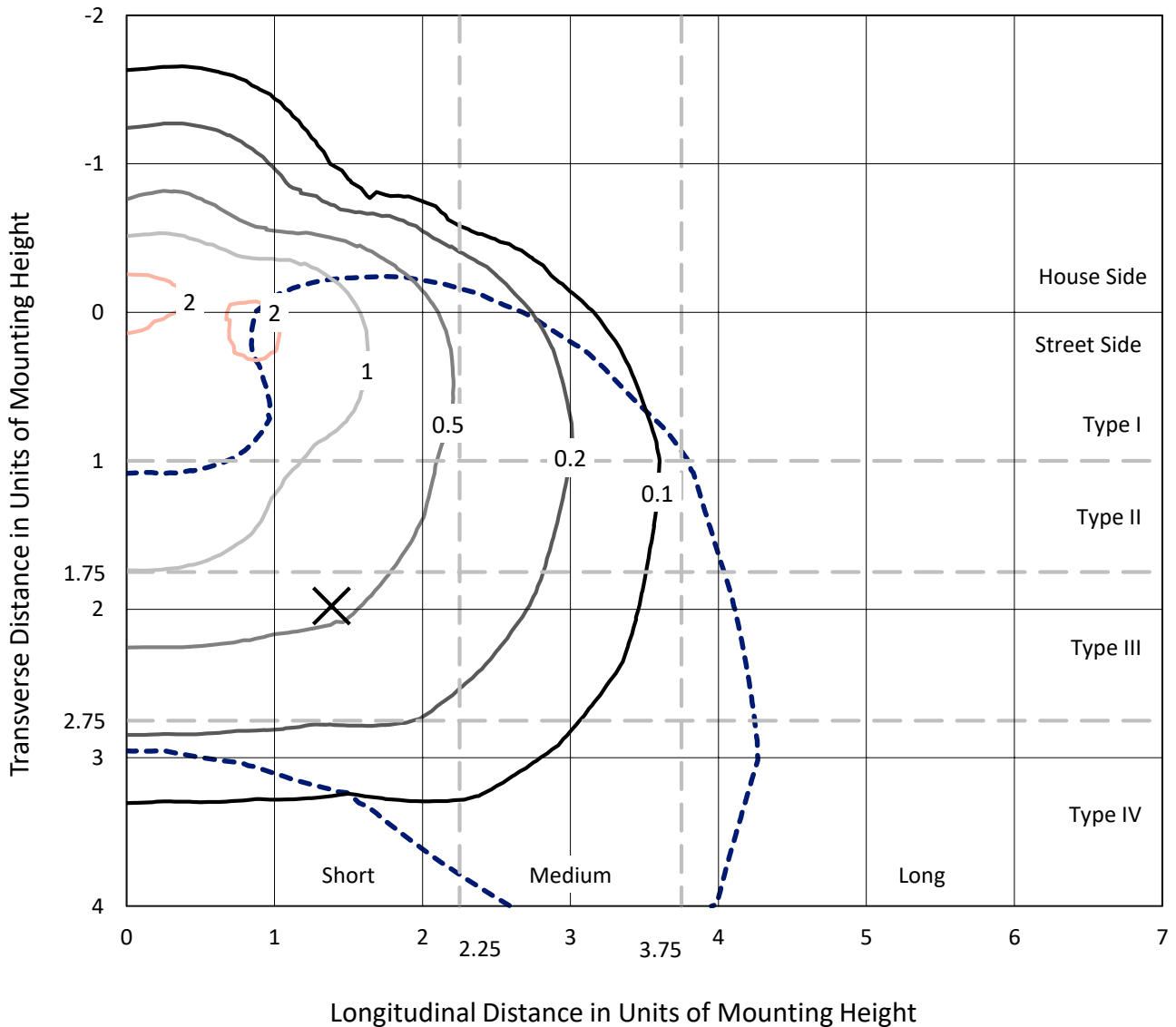
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509057
 CATALOG NUMBER: VERD-CA2-100-722-U-T4

Iso-Footcandle Lines of Horizontal Illumination

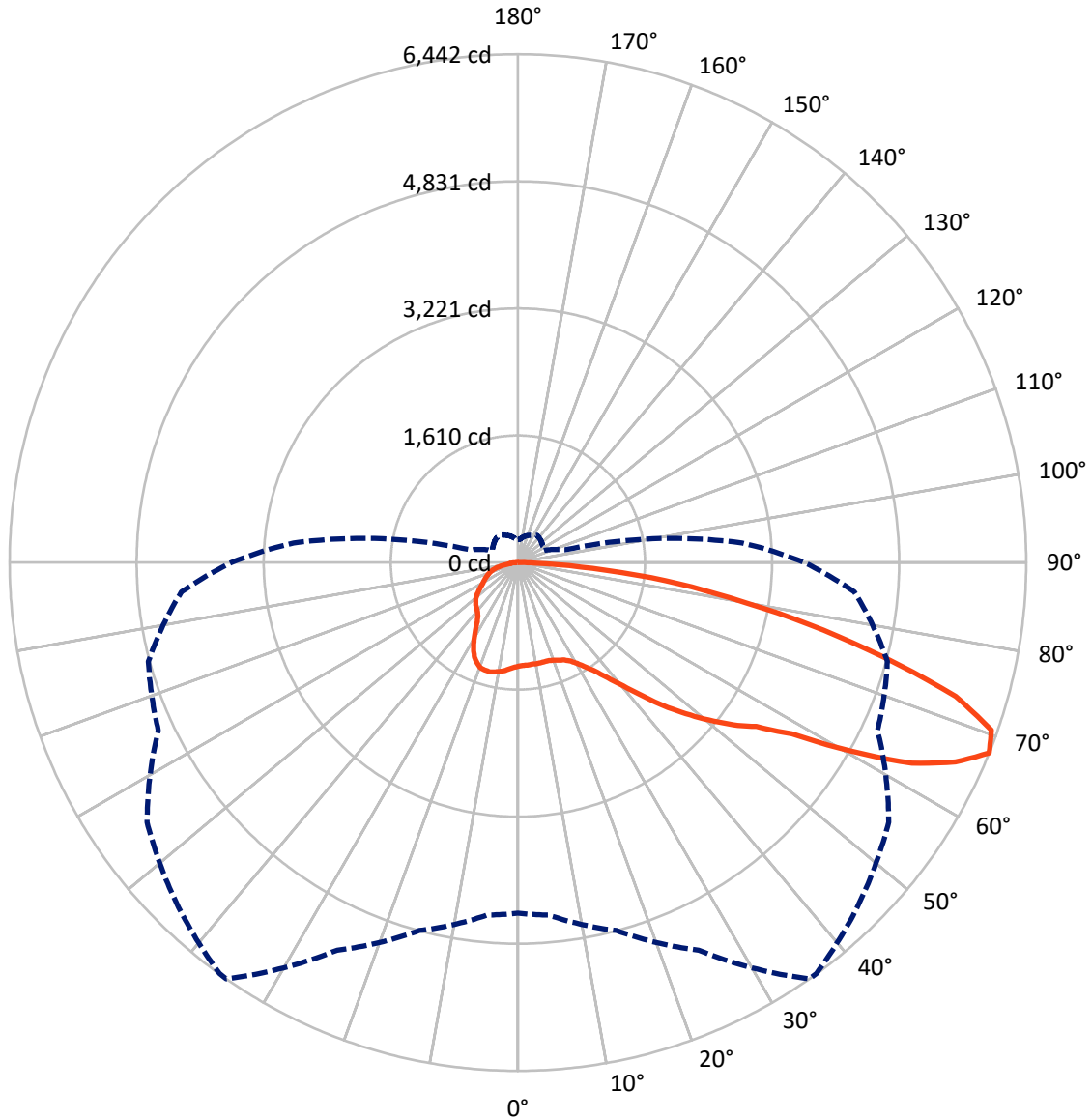
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P509057
CATALOG NUMBER: VERD-CA2-100-722-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509057

CATALOG NUMBER: VERD-CA2-100-722-U-T4

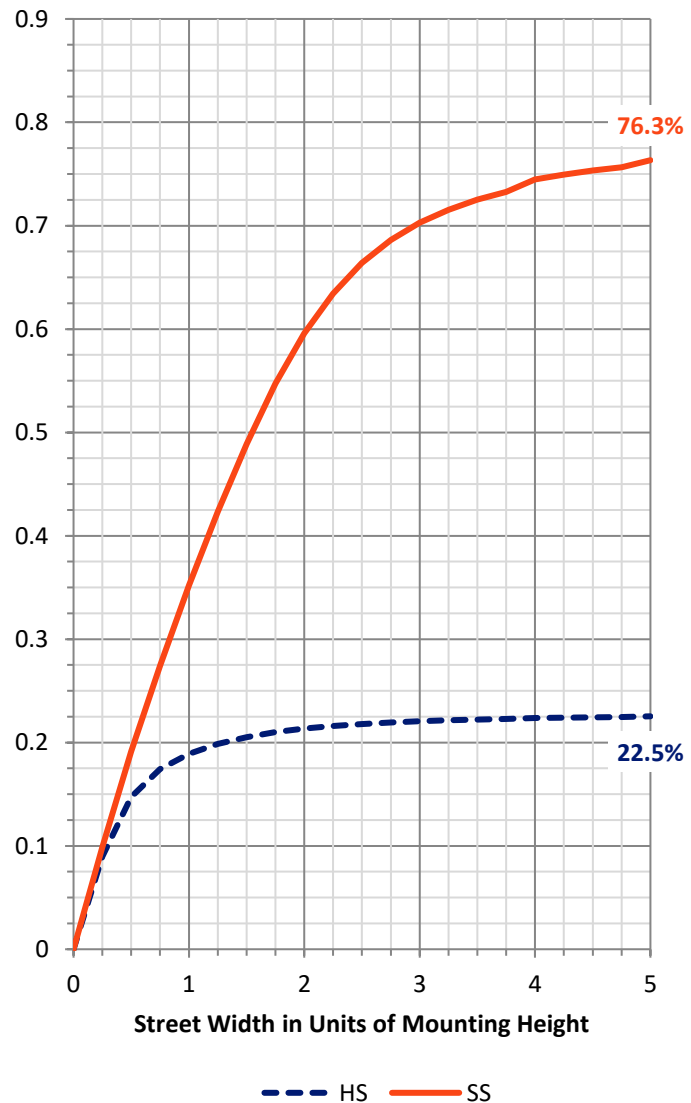
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2603.5	0.0	2603.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8824.5	0.0	8824.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	11428.0	0.0	11428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.1
10°-20°	389.8	3.4
20°-30°	650.6	5.7
30°-40°	1001.0	8.8
40°-50°	1649.6	14.4
50°-60°	2356.2	20.6
60°-70°	2933.6	25.7
70°-80°	1979.7	17.3
80°-90°	340.3	3.0
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°	11428.0	100.0
0°-180°	11428.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509057

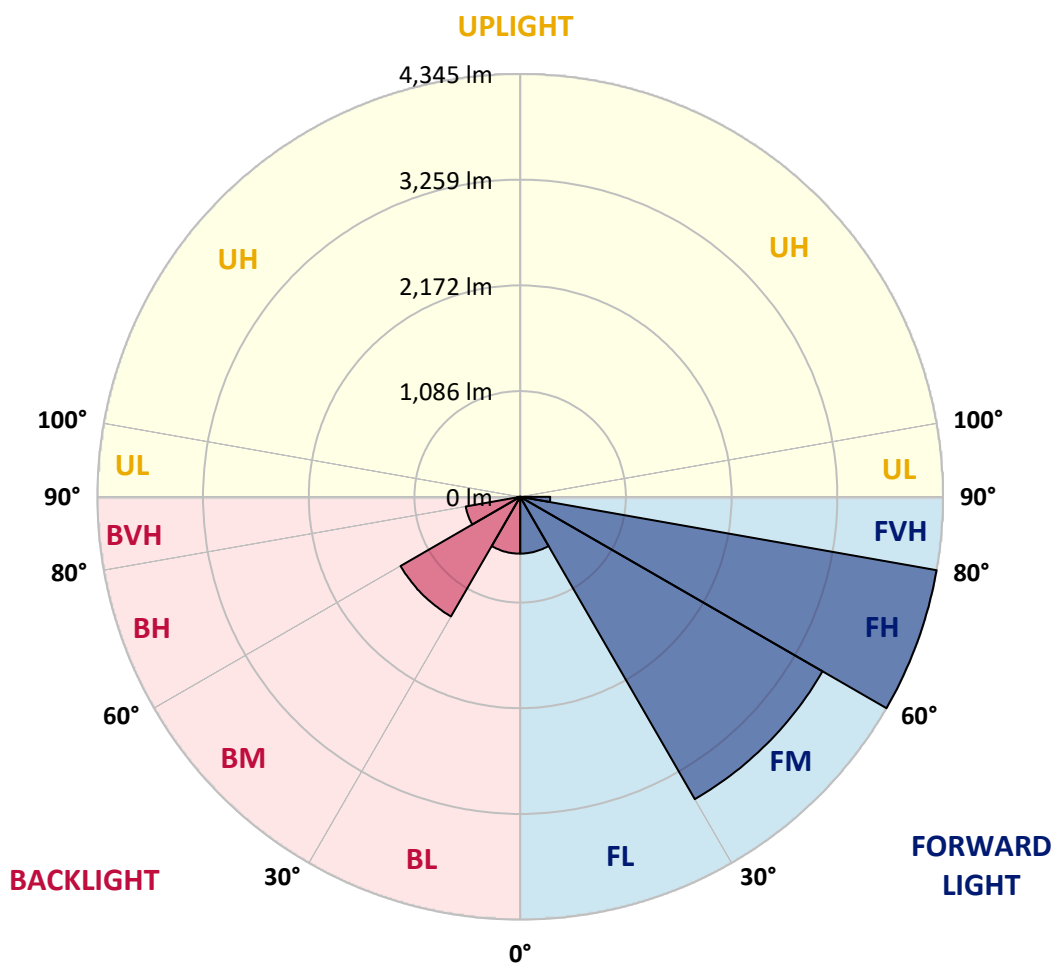
CATALOG NUMBER: VERD-CA2-100-722-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.2	5.1			
FM (30°-60°)	3587.4	31.4			
FH (60°-80°)	4345.0	38.0			G2/5000
FVH (80°-90°)	308.9	2.7			G3/500
BL (0°-30°)	584.3	5.1	B2/1000		
BM (30°-60°)	1419.5	12.4	B2/2500		
BH (60°-80°)	568.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	31.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P509057

CATALOG NUMBER: VERD-CA2-100-722-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1294.7	1307.1	1305.8	1303.4	1304.6	1305.8	1299.7	1296.0	1300.9	1302.1	1308.3
5°	1293.5	1303.4	1302.1	1302.1	1305.8	1304.6	1294.7	1287.4	1296.0	1302.1	1308.3
7.5°	1292.3	1300.9	1300.9	1297.2	1299.7	1299.7	1294.7	1299.7	1299.7	1309.5	1316.9
10°	1291.0	1298.4	1298.4	1299.7	1303.4	1304.6	1304.6	1308.3	1321.8	1325.5	1340.3
12.5°	1276.3	1282.4	1287.4	1294.7	1302.1	1304.6	1310.8	1321.8	1339.1	1347.7	1365.0
15°	1263.9	1272.6	1281.2	1288.6	1299.7	1302.1	1315.7	1334.2	1352.6	1371.1	1397.0
17.5°	1268.9	1280.0	1289.8	1296.0	1304.6	1307.1	1320.6	1345.3	1374.8	1401.9	1437.6
20°	1280.0	1292.3	1302.1	1309.5	1320.6	1323.1	1334.2	1357.6	1395.8	1437.6	1478.3
22.5°	1307.1	1315.7	1326.8	1330.5	1342.8	1345.3	1352.6	1376.1	1425.3	1478.3	1530.0
25°	1331.7	1341.6	1350.2	1353.9	1367.4	1369.9	1383.4	1403.2	1461.1	1521.4	1596.6
27.5°	1363.7	1373.6	1384.7	1388.4	1411.8	1414.2	1420.4	1450.0	1507.9	1578.1	1671.7
30°	1425.3	1431.5	1443.8	1458.6	1482.0	1484.5	1498.0	1528.8	1570.7	1656.9	1781.4
32.5°	1519.0	1527.6	1522.6	1542.4	1576.9	1576.9	1623.7	1675.4	1727.1	1787.5	1952.6
35°	1698.8	1693.9	1689.0	1671.7	1692.7	1700.0	1765.3	1852.8	1996.9	2166.9	2329.6
37.5°	1921.8	1920.6	1894.7	1855.3	1854.0	1856.5	1915.6	2063.5	2292.6	2670.8	2845.7
40°	2264.3	2274.1	2183.0	2101.7	2056.1	2046.2	2093.0	2279.0	2587.0	3090.9	3210.4
42.5°	2606.7	2585.8	2511.9	2380.1	2303.7	2297.5	2306.1	2468.8	2872.8	3430.9	3474.0
45°	2909.8	2925.8	2810.0	2729.9	2589.5	2592.0	2553.8	2702.8	3156.2	3671.1	3678.5
47.5°	3219.0	3231.3	3087.2	2996.0	2861.7	2861.7	2801.4	2919.6	3408.7	3900.2	3885.5
50°	3549.2	3577.5	3396.4	3258.4	3135.2	3130.3	3111.8	3185.7	3657.6	4093.7	4034.5
52.5°	3995.1	3897.8	3726.5	3539.3	3417.3	3402.6	3385.3	3438.3	3943.4	4251.3	4130.6
55°	4455.8	4324.0	4149.1	3897.8	3667.4	3688.4	3645.2	3705.6	4205.8	4439.8	4256.3
57.5°	4735.5	4784.8	4689.9	4474.3	4094.9	4091.2	3928.6	3960.6	4441.1	4598.7	4389.3
60°	5029.9	5098.9	5163.0	5034.8	4855.0	4773.7	4356.1	4231.6	4705.9	4714.5	4374.5
62.5°	5183.9	5170.4	5448.8	5463.6	5602.8	5612.6	5204.9	4582.7	4862.4	4811.9	4426.3
65°	4909.2	4916.6	5374.9	5613.8	6093.1	6121.4	5972.3	5199.9	4994.2	4857.4	4367.1
67.5°	4443.5	4485.4	4829.1	5420.4	6441.7	6436.8	6114.0	5737.0	5028.7	4847.6	4280.9
70°	3634.2	3678.5	4030.8	4889.5	6365.3	6324.7	6053.6	5780.2	4999.1	4758.9	3851.0
72.5°	2787.8	2781.7	3146.3	3905.2	5803.6	5843.0	5744.4	5475.9	4857.4	4379.5	3154.9
75°	1964.9	1934.1	2258.1	2960.3	4786.0	4931.4	5267.7	5193.8	4321.6	3604.6	2109.0
77.5°	1289.8	1336.6	1595.3	2189.1	3763.5	3885.5	4349.9	4203.3	3198.1	2300.0	761.3
80°	819.2	861.1	1070.5	1563.3	2736.1	2791.5	3171.0	2673.3	1708.7	758.9	105.9
82.5°	497.7	503.9	689.9	1057.0	1887.3	1887.3	1996.9	1494.3	668.9	98.6	69.0
85°	264.9	279.6	372.0	570.4	951.0	1022.5	905.5	570.4	129.4	54.2	41.9
87.5°	83.8	85.0	122.0	220.5	204.5	210.7	70.2	29.6	14.8	9.9	8.6
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: P509057
 CATALOG NUMBER: VERD-CA2-100-722-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1310.8	1312.0	1319.4	1323.1	1324.3	1320.6	1329.2	1341.6	1337.9	1351.4	1346.5
5°	1310.8	1316.9	1326.8	1325.5	1335.4	1340.3	1350.2	1362.5	1358.8	1378.5	1371.1
7.5°	1320.6	1330.5	1337.9	1352.6	1360.0	1357.6	1379.7	1389.6	1384.7	1399.5	1392.1
10°	1345.3	1356.3	1366.2	1382.2	1393.3	1388.4	1400.7	1406.8	1398.2	1413.0	1409.3
12.5°	1373.6	1385.9	1405.6	1416.7	1425.3	1416.7	1416.7	1413.0	1400.7	1414.2	1405.6
15°	1405.6	1421.6	1448.7	1461.1	1458.6	1443.8	1430.3	1404.4	1371.1	1377.3	1365.0
17.5°	1448.7	1468.4	1499.2	1506.6	1496.8	1461.1	1425.3	1378.5	1319.4	1304.6	1294.7
20°	1495.5	1517.7	1560.8	1557.1	1535.0	1472.1	1415.5	1342.8	1250.4	1208.5	1188.8
22.5°	1559.6	1581.8	1622.4	1600.3	1554.7	1472.1	1376.1	1275.0	1165.4	1103.8	1090.2
25°	1629.8	1660.6	1677.9	1628.6	1549.8	1438.9	1323.1	1190.0	1049.6	983.1	969.5
27.5°	1716.1	1737.0	1719.8	1632.3	1525.1	1383.4	1236.8	1076.7	942.4	885.7	866.0
30°	1817.1	1819.5	1751.8	1624.9	1469.7	1304.6	1130.9	962.1	858.6	805.7	793.4
32.5°	1951.4	1926.7	1780.1	1590.4	1394.5	1196.2	1012.6	885.7	799.5	733.0	715.7
35°	2301.2	2189.1	1842.9	1551.0	1303.4	1075.5	910.4	816.8	744.1	668.9	655.4
37.5°	2754.6	2556.2	1953.8	1510.3	1199.9	964.6	842.6	776.1	714.5	630.7	612.3
40°	3094.6	2865.4	2125.1	1466.0	1105.0	885.7	805.7	760.1	692.3	616.0	596.2
42.5°	3354.5	3122.9	2301.2	1416.7	1016.3	824.2	779.8	749.0	683.7	612.3	596.2
45°	3534.4	3302.8	2452.7	1358.8	903.0	771.2	760.1	730.5	667.7	598.7	582.7
47.5°	3716.7	3429.7	2537.7	1298.4	808.1	741.6	731.8	698.5	640.6	575.3	563.0
50°	3875.6	3573.8	2610.4	1236.8	733.0	705.9	699.7	655.4	599.9	538.3	522.3
52.5°	3921.2	3608.3	2580.9	1233.1	665.2	667.7	655.4	619.7	567.9	501.4	485.4
55°	4024.7	3704.4	2509.4	1119.8	599.9	608.6	606.1	587.6	539.6	478.0	465.7
57.5°	4069.0	3631.7	2405.9	832.8	532.2	539.6	560.5	560.5	518.6	463.2	452.1
60°	4062.9	3634.2	2221.1	582.7	465.7	485.4	514.9	514.9	481.7	427.5	413.9
62.5°	4016.0	3540.5	1914.4	444.7	423.8	452.1	486.6	464.4	434.9	374.5	364.6
65°	3938.4	3283.1	1326.8	390.5	400.4	433.6	450.9	423.8	388.1	333.8	327.7
67.5°	3628.0	2851.9	617.2	357.3	380.7	406.5	421.3	383.1	346.2	296.9	289.5
70°	3088.4	2086.9	266.1	331.4	357.3	375.7	390.5	351.1	311.7	268.6	266.1
72.5°	2245.8	1113.7	221.7	290.7	317.8	337.5	356.0	316.6	278.4	227.9	227.9
75°	1081.6	184.8	190.9	241.5	266.1	305.5	314.1	258.7	215.6	173.7	170.0
77.5°	133.0	119.5	165.1	192.2	213.1	234.1	255.0	224.2	186.0	142.9	135.5
80°	83.8	83.8	130.6	134.3	145.4	167.5	187.3	174.9	146.6	82.5	76.4
82.5°	61.6	66.5	86.2	64.1	76.4	96.1	109.6	124.4	105.9	57.9	54.2
85°	39.4	43.1	40.7	32.0	41.9	64.1	87.5	86.2	71.5	43.1	40.7
87.5°	8.6	8.6	8.6	7.4	8.6	11.1	20.9	40.7	29.6	23.4	22.2
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)