

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: P509401

Luminaire Tested: **VERD-CA2-90-727-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509401
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-CA2-90-727-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11031 lumens
Efficiency: N/A
Efficacy: 117.1 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

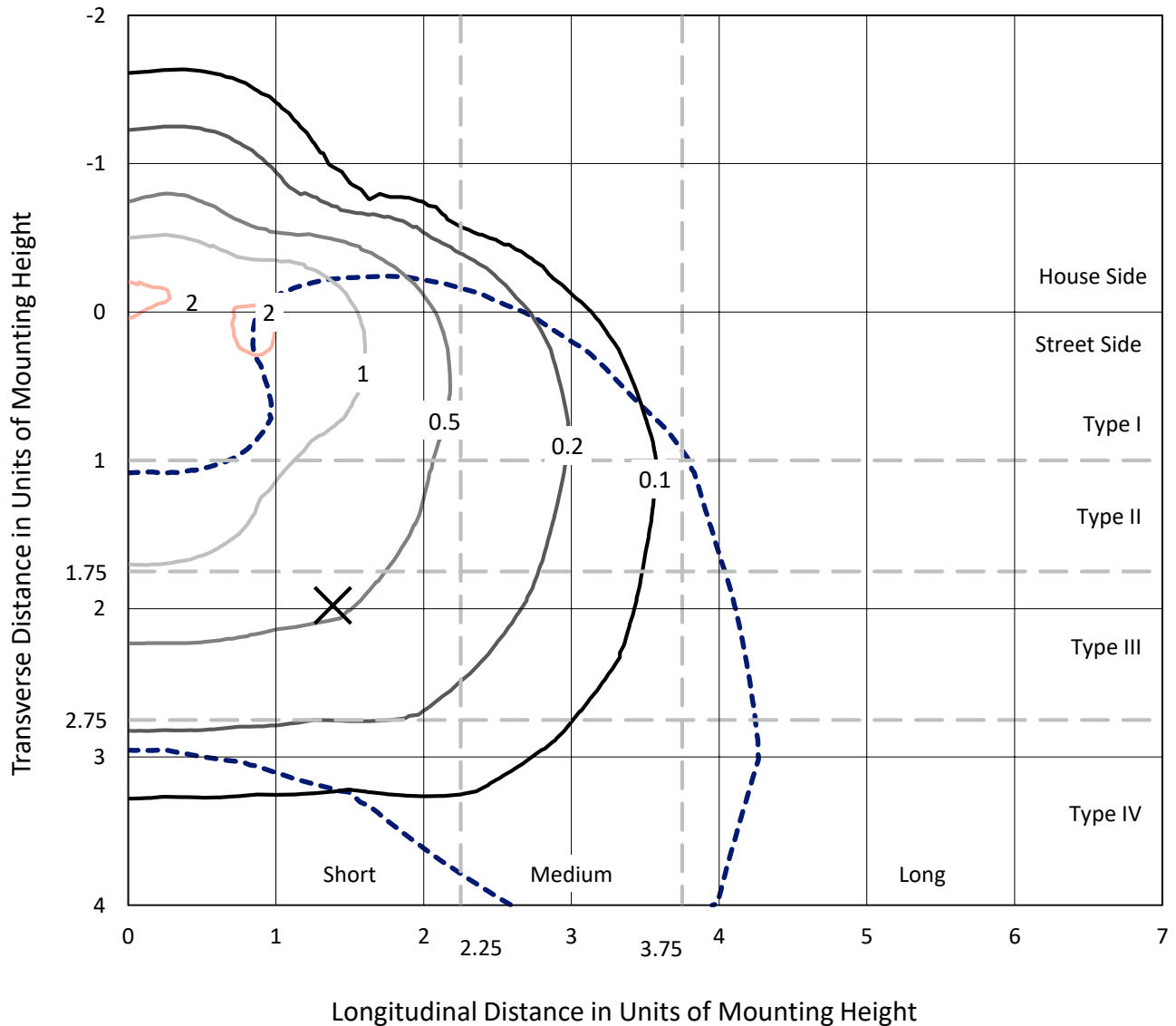
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509401
 CATALOG NUMBER: VERD-CA2-90-727-U-T4

Iso-Footcandle Lines of Horizontal Illumination

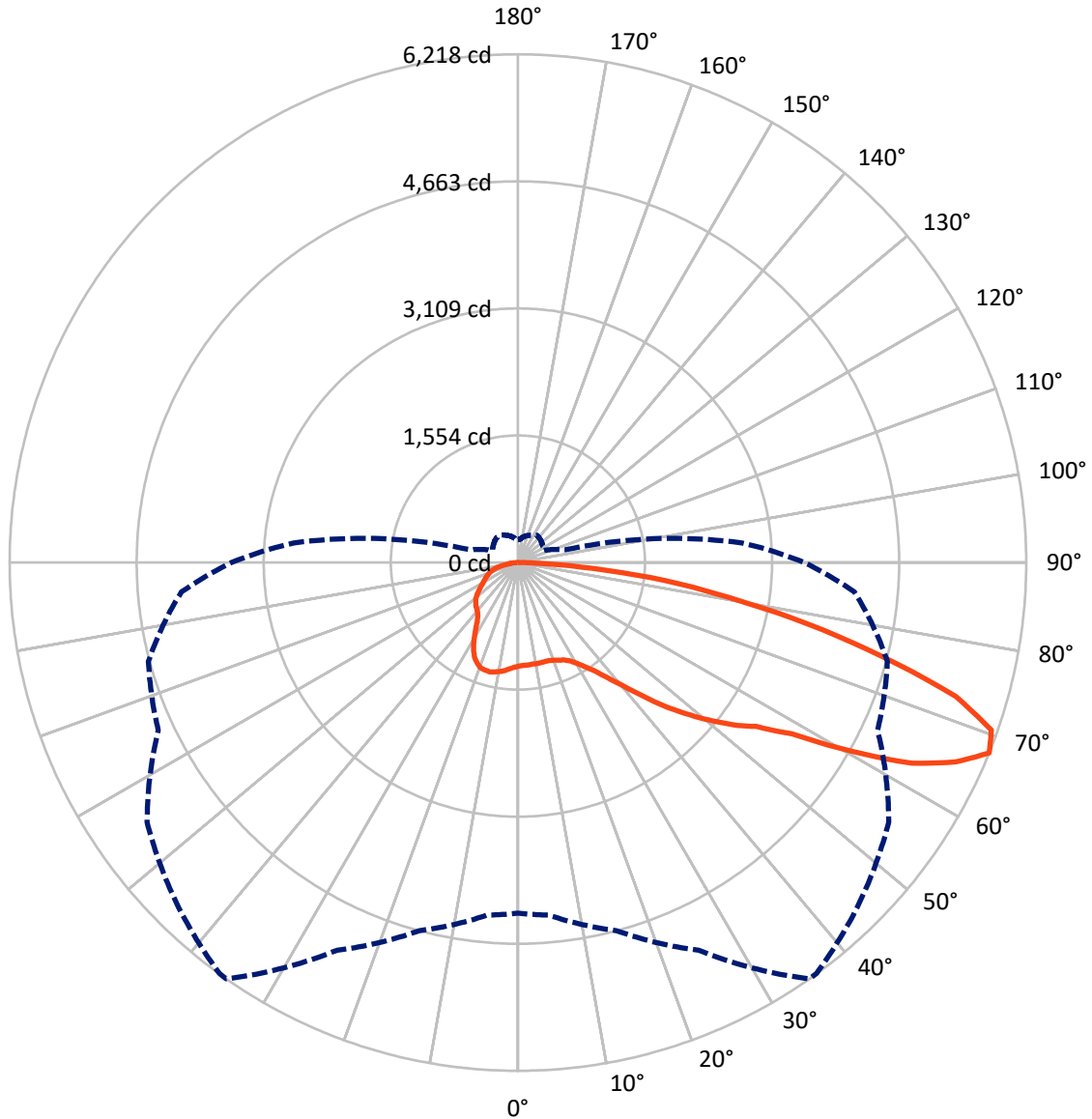
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509401
CATALOG NUMBER: VERD-CA2-90-727-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509401

CATALOG NUMBER: VERD-CA2-90-727-U-T4

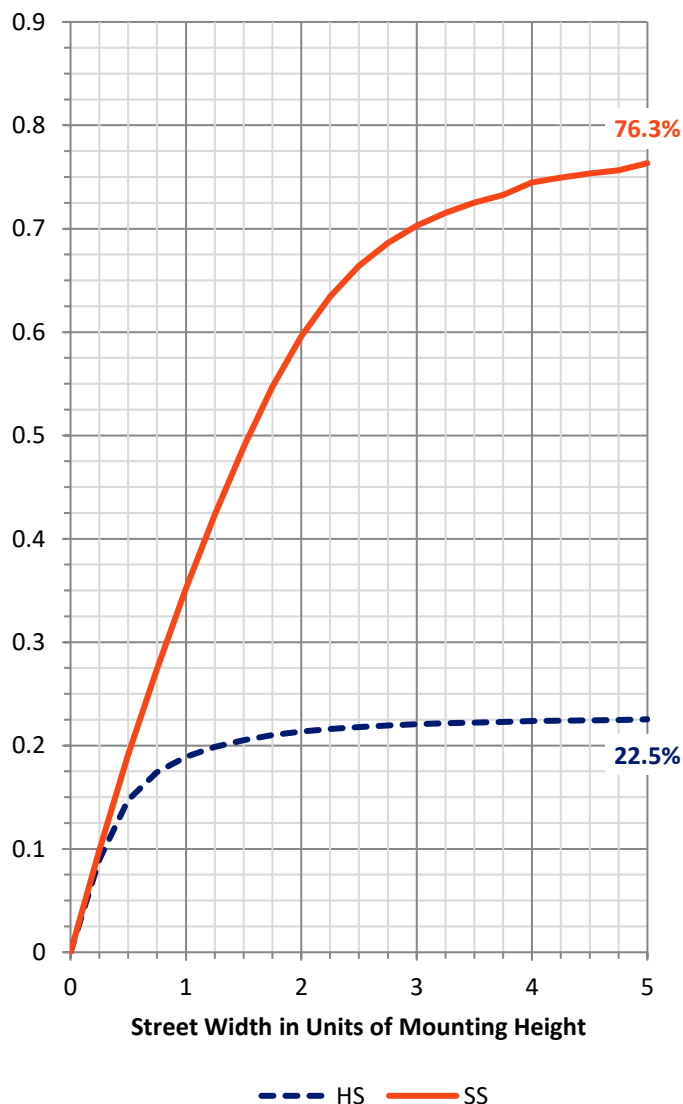
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2513.1	0.0	2513.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8517.9	0.0	8517.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	11031.0	0.0	11031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	1.1
10°-20°	376.3	3.4
20°-30°	628.0	5.7
30°-40°	966.2	8.8
40°-50°	1592.3	14.4
50°-60°	2274.4	20.6
60°-70°	2831.7	25.7
70°-80°	1910.9	17.3
80°-90°	328.5	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°	11031.0	100.0
0°-180°	11031.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509401

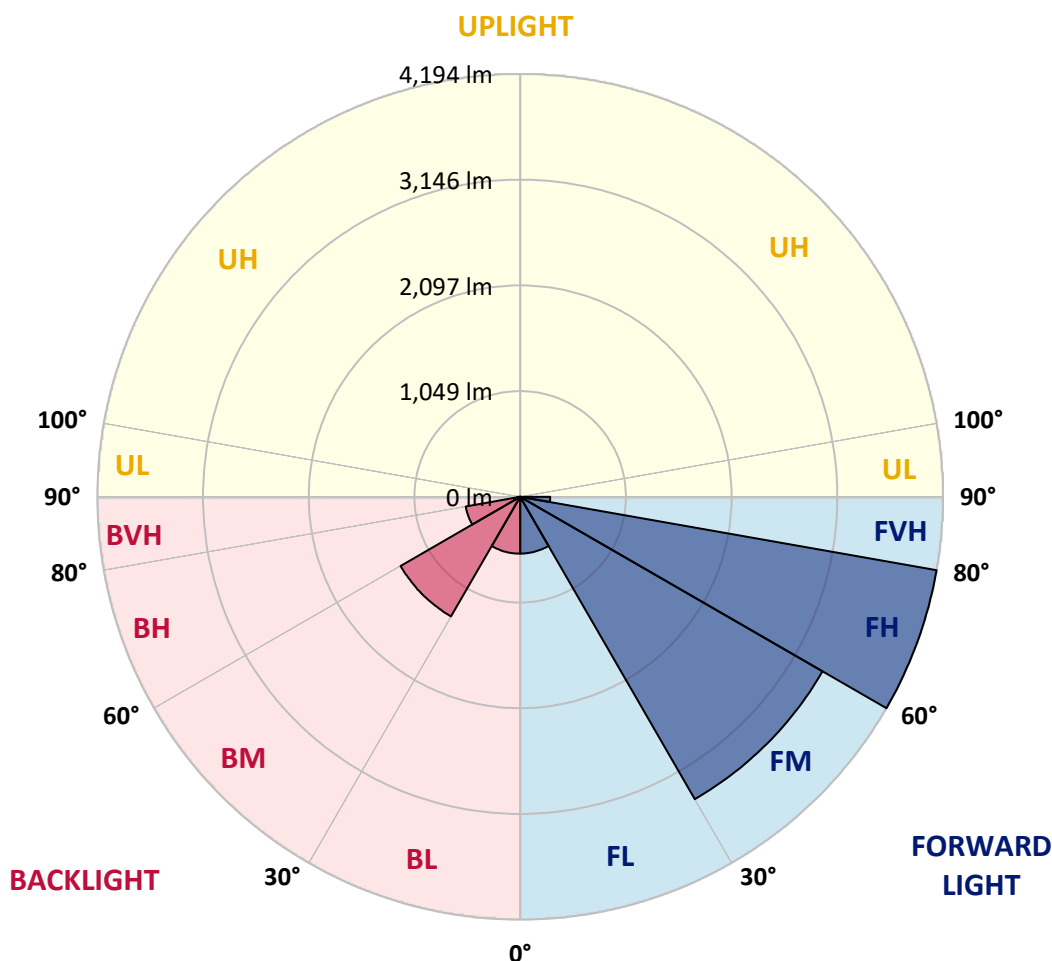
CATALOG NUMBER: VERD-CA2-90-727-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.9	5.1			
FM (30°-60°)	3462.8	31.4			
FH (60°-80°)	4194.0	38.0			G2/5000
FVH (80°-90°)	298.2	2.7			G3/500
BL (0°-30°)	564.0	5.1	B2/1000		
BM (30°-60°)	1370.2	12.4	B2/2500		
BH (60°-80°)	548.6	5.0	B2/1000		G2/1000
BVH (80°-90°)	30.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P509401
 CATALOG NUMBER: VERD-CA2-90-727-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6
2.5°	1249.8	1261.7	1260.5	1258.1	1259.3	1260.5	1254.5	1251.0	1255.7	1256.9	1262.8
5°	1248.6	1258.1	1256.9	1256.9	1260.5	1259.3	1249.8	1242.6	1251.0	1256.9	1262.8
7.5°	1247.4	1255.7	1255.7	1252.1	1254.5	1254.5	1249.8	1254.5	1254.5	1264.0	1271.2
10°	1246.2	1253.3	1253.3	1254.5	1258.1	1259.3	1259.3	1262.8	1275.9	1279.5	1293.8
12.5°	1231.9	1237.9	1242.6	1249.8	1256.9	1259.3	1265.2	1275.9	1292.6	1300.9	1317.5
15°	1220.0	1228.4	1236.7	1243.8	1254.5	1256.9	1270.0	1287.8	1305.7	1323.5	1348.5
17.5°	1224.8	1235.5	1245.0	1251.0	1259.3	1261.7	1274.7	1298.5	1327.1	1353.2	1387.7
20°	1235.5	1247.4	1256.9	1264.0	1274.7	1277.1	1287.8	1310.4	1347.3	1387.7	1426.9
22.5°	1261.7	1270.0	1280.7	1284.3	1296.1	1298.5	1305.7	1328.2	1375.8	1426.9	1476.9
25°	1285.4	1295.0	1303.3	1306.8	1319.9	1322.3	1335.4	1354.4	1410.3	1468.6	1541.1
27.5°	1316.4	1325.9	1336.6	1340.1	1362.7	1365.1	1371.1	1399.6	1455.5	1523.3	1613.6
30°	1375.8	1381.8	1393.7	1407.9	1430.5	1432.9	1446.0	1475.7	1516.1	1599.4	1719.5
32.5°	1466.2	1474.5	1469.8	1488.8	1522.1	1522.1	1567.3	1617.2	1667.1	1725.4	1884.8
35°	1639.8	1635.0	1630.3	1613.6	1633.9	1641.0	1704.0	1788.4	1927.6	2091.7	2248.6
37.5°	1855.0	1853.8	1828.9	1790.8	1789.6	1792.0	1849.1	1991.8	2213.0	2578.0	2746.9
40°	2185.6	2195.1	2107.1	2028.6	1984.6	1975.1	2020.3	2199.9	2497.2	2983.5	3098.9
42.5°	2516.2	2496.0	2424.6	2297.4	2223.7	2217.7	2226.0	2383.0	2773.0	3311.7	3353.3
45°	2808.7	2824.2	2712.4	2635.1	2499.5	2501.9	2465.0	2608.9	3046.5	3543.6	3550.7
47.5°	3107.2	3119.1	2979.9	2891.9	2762.3	2762.3	2704.1	2818.2	3290.3	3764.8	3750.5
50°	3425.9	3453.2	3278.4	3145.2	3026.3	3021.6	3003.7	3075.1	3530.5	3951.5	3894.4
52.5°	3856.3	3762.4	3597.1	3416.3	3298.6	3284.4	3267.7	3318.8	3806.4	4103.7	3987.1
55°	4301.1	4173.8	4005.0	3762.4	3540.0	3560.2	3518.6	3576.9	4059.7	4285.6	4108.4
57.5°	4571.0	4618.5	4527.0	4318.9	3952.6	3949.1	3792.1	3823.0	4286.8	4439.0	4236.8
60°	4855.2	4921.8	4983.6	4859.9	4686.3	4607.8	4204.7	4084.6	4542.4	4550.8	4222.6
62.5°	5003.8	4990.7	5259.5	5273.8	5408.1	5417.6	5024.0	4423.5	4693.5	4644.7	4272.5
65°	4738.6	4745.8	5188.1	5418.8	5881.4	5908.7	5764.9	5019.3	4820.7	4688.7	4215.4
67.5°	4289.2	4329.6	4661.4	5232.1	6217.9	6213.2	5901.6	5537.7	4854.0	4679.2	4132.2
70°	3507.9	3550.7	3890.8	4719.6	6144.2	6104.9	5843.3	5579.4	4825.5	4593.6	3717.2
72.5°	2691.0	2685.0	3037.0	3769.5	5602.0	5640.0	5544.9	5285.6	4688.7	4227.3	3045.3
75°	1896.6	1866.9	2179.7	2857.5	4619.7	4760.1	5084.7	5013.3	4171.4	3479.4	2035.8
77.5°	1245.0	1290.2	1539.9	2113.1	3632.8	3750.5	4198.8	4057.3	3087.0	2220.1	734.9
80°	790.8	831.2	1033.3	1509.0	2641.0	2694.5	3060.8	2580.4	1649.3	732.5	102.3
82.5°	480.4	486.4	665.9	1020.3	1821.7	1821.7	1927.6	1442.4	645.7	95.1	66.6
85°	255.7	269.9	359.1	550.6	918.0	987.0	874.0	550.6	124.9	52.3	40.4
87.5°	80.9	82.0	117.7	212.9	197.4	203.3	67.8	28.5	14.3	9.5	8.3
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: P509401
 CATALOG NUMBER: VERD-CA2-90-727-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6
2.5°	1265.2	1266.4	1273.5	1277.1	1278.3	1274.7	1283.1	1295.0	1291.4	1304.5	1299.7
5°	1265.2	1271.2	1280.7	1279.5	1289.0	1293.8	1303.3	1315.2	1311.6	1330.6	1323.5
7.5°	1274.7	1284.3	1291.4	1305.7	1312.8	1310.4	1331.8	1341.3	1336.6	1350.8	1343.7
10°	1298.5	1309.2	1318.7	1334.2	1344.9	1340.1	1352.0	1358.0	1349.7	1363.9	1360.4
12.5°	1325.9	1337.8	1356.8	1367.5	1375.8	1367.5	1367.5	1363.9	1352.0	1365.1	1356.8
15°	1356.8	1372.2	1398.4	1410.3	1407.9	1393.7	1380.6	1355.6	1323.5	1329.4	1317.5
17.5°	1398.4	1417.4	1447.2	1454.3	1444.8	1410.3	1375.8	1330.6	1273.5	1259.3	1249.8
20°	1443.6	1465.0	1506.6	1503.0	1481.6	1421.0	1366.3	1296.1	1207.0	1166.5	1147.5
22.5°	1505.4	1526.8	1566.1	1544.7	1500.7	1421.0	1328.2	1230.7	1124.9	1065.5	1052.4
25°	1573.2	1602.9	1619.6	1572.0	1495.9	1388.9	1277.1	1148.7	1013.1	948.9	935.8
27.5°	1656.4	1676.7	1660.0	1575.6	1472.1	1335.4	1193.9	1039.3	909.7	855.0	836.0
30°	1754.0	1756.3	1690.9	1568.5	1418.6	1259.3	1091.6	928.7	828.8	777.7	765.8
32.5°	1883.6	1859.8	1718.3	1535.2	1346.1	1154.6	977.5	855.0	771.7	707.5	690.9
35°	2221.3	2113.1	1778.9	1497.1	1258.1	1038.1	878.8	788.4	718.2	645.7	632.6
37.5°	2658.9	2467.4	1885.9	1457.9	1158.2	931.1	813.4	749.1	689.7	608.8	591.0
40°	2987.1	2765.9	2051.2	1415.1	1066.6	855.0	777.7	733.7	668.3	594.6	575.5
42.5°	3238.0	3014.4	2221.3	1367.5	981.0	795.5	752.7	723.0	660.0	591.0	575.5
45°	3411.6	3188.0	2367.5	1311.6	871.6	744.4	733.7	705.1	644.5	577.9	562.5
47.5°	3587.6	3310.5	2449.6	1253.3	780.1	715.9	706.3	674.2	618.3	555.3	543.4
50°	3741.0	3449.6	2519.7	1193.9	707.5	681.4	675.4	632.6	579.1	519.6	504.2
52.5°	3785.0	3482.9	2491.2	1190.3	642.1	644.5	632.6	598.1	548.2	484.0	468.5
55°	3884.9	3575.7	2422.2	1080.9	579.1	587.4	585.0	567.2	520.8	461.4	449.5
57.5°	3927.7	3505.5	2322.4	803.8	513.7	520.8	541.1	541.1	500.6	447.1	436.4
60°	3921.7	3507.9	2144.0	562.5	449.5	468.5	497.1	497.1	464.9	412.6	399.5
62.5°	3876.5	3417.5	1847.9	429.3	409.1	436.4	469.7	448.3	419.8	361.5	352.0
65°	3801.6	3169.0	1280.7	377.0	386.5	418.6	435.2	409.1	374.6	322.3	316.3
67.5°	3502.0	2752.8	595.7	344.8	367.4	392.4	406.7	369.8	334.1	286.6	279.4
70°	2981.1	2014.4	256.9	319.9	344.8	362.7	377.0	338.9	300.8	259.2	256.9
72.5°	2167.8	1075.0	214.0	280.6	306.8	325.8	343.7	305.6	268.7	220.0	220.0
75°	1044.0	178.4	184.3	233.1	256.9	294.9	303.2	249.7	208.1	167.7	164.1
77.5°	128.4	115.3	159.3	185.5	205.7	225.9	246.1	216.4	179.6	137.9	130.8
80°	80.9	80.9	126.0	129.6	140.3	161.7	180.7	168.9	141.5	79.7	73.7
82.5°	59.5	64.2	83.2	61.8	73.7	92.8	105.8	120.1	102.3	55.9	52.3
85°	38.1	41.6	39.2	30.9	40.4	61.8	84.4	83.2	69.0	41.6	39.2
87.5°	8.3	8.3	8.3	7.1	8.3	10.7	20.2	39.2	28.5	22.6	21.4
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)