

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: P509369

Luminaire Tested: **VERD-CA2-80-740-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509369
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-CA2-80-740-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11683 lumens
Efficiency: N/A
Efficacy: 141.8 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

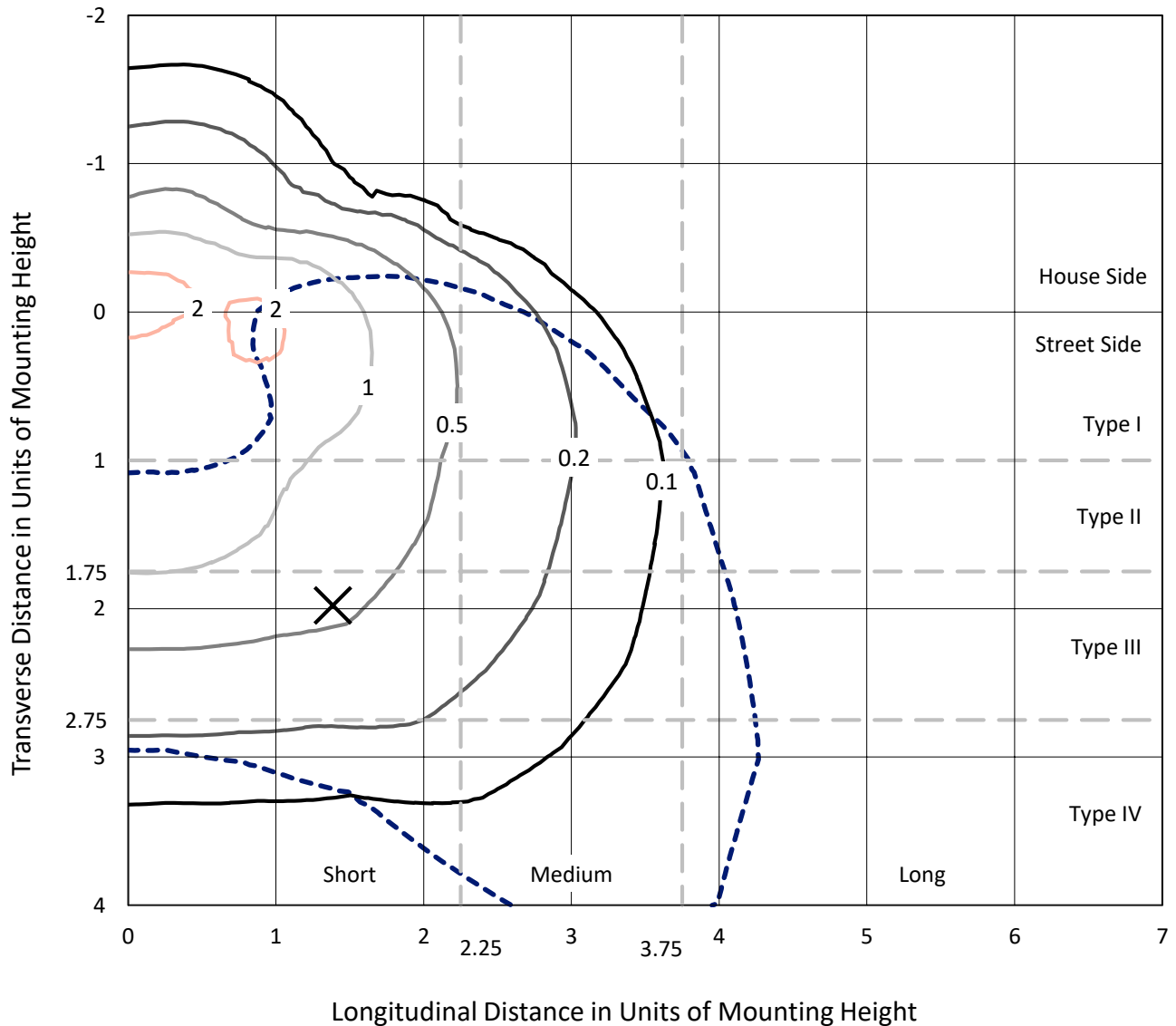
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

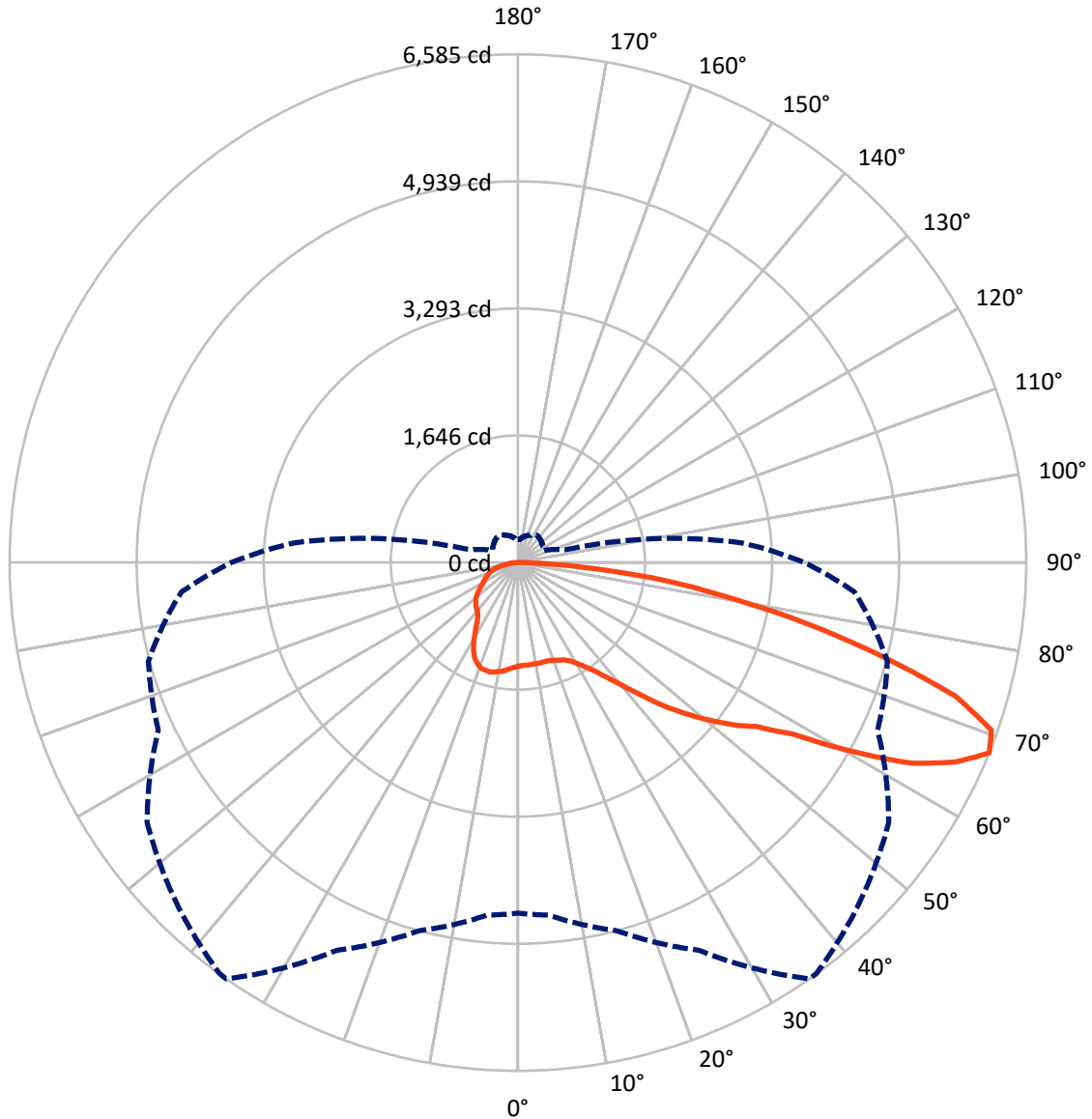
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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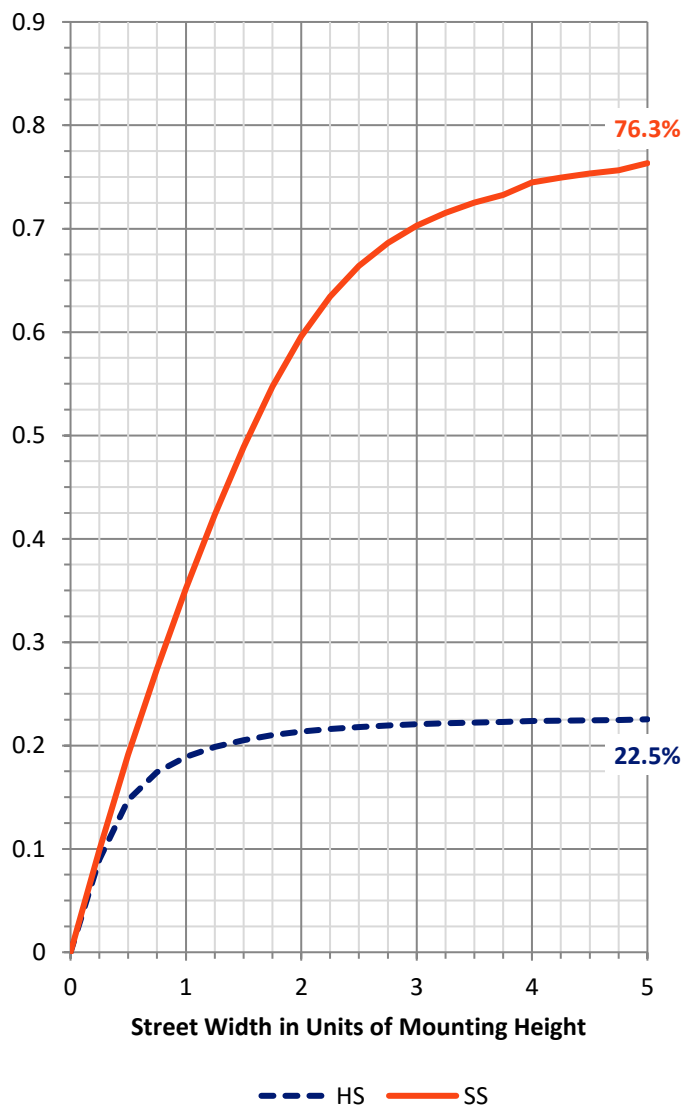
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2661.6	0.0	2661.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	9021.4	0.0	9021.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	11683.0	0.0	11683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.1
10°-20°	398.5	3.4
20°-30°	665.1	5.7
30°-40°	1023.4	8.8
40°-50°	1686.4	14.4
50°-60°	2408.8	20.6
60°-70°	2999.1	25.7
70°-80°	2023.9	17.3
80°-90°	347.9	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°	11683.0	100.0
0°-180°	11683.0	100.0

Coefficient of Utilization



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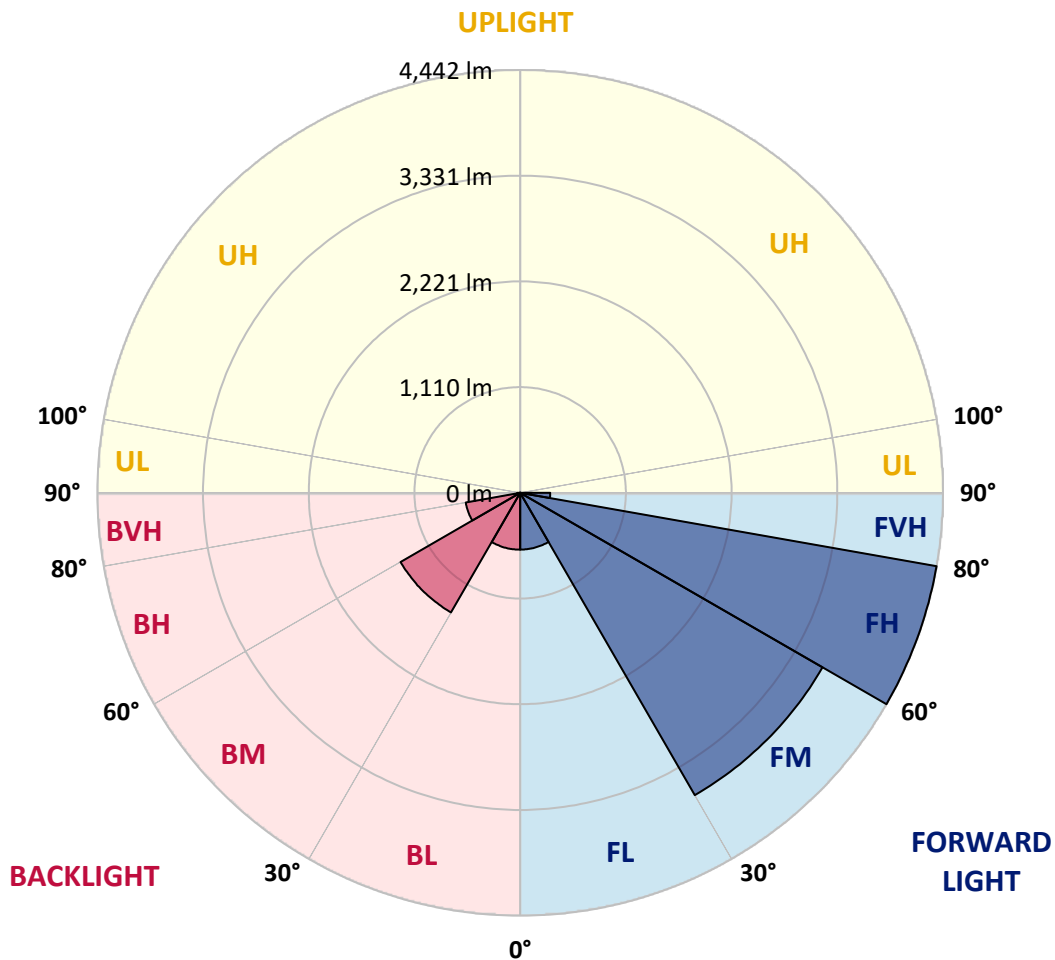
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.2	5.1			
FM (30°-60°)	3667.4	31.4			
FH (60°-80°)	4441.9	38.0			G2/5000
FVH (80°-90°)	315.8	2.7			G3/500
BL (0°-30°)	597.4	5.1	B2/1000		
BM (30°-60°)	1451.2	12.4	B2/2500		
BH (60°-80°)	581.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	32.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5
2.5°	1323.6	1336.2	1335.0	1332.5	1333.7	1335.0	1328.7	1324.9	1329.9	1331.2	1337.5
5°	1322.4	1332.5	1331.2	1331.2	1335.0	1333.7	1323.6	1316.1	1324.9	1331.2	1337.5
7.5°	1321.1	1329.9	1329.9	1326.2	1328.7	1328.7	1323.6	1328.7	1328.7	1338.7	1346.3
10°	1319.9	1327.4	1327.4	1328.7	1332.5	1333.7	1333.7	1337.5	1351.3	1355.1	1370.2
12.5°	1304.7	1311.0	1316.1	1323.6	1331.2	1333.7	1340.0	1351.3	1369.0	1377.8	1395.4
15°	1292.2	1301.0	1309.8	1317.3	1328.7	1331.2	1345.0	1363.9	1382.8	1401.7	1428.2
17.5°	1297.2	1308.5	1318.6	1324.9	1333.7	1336.2	1350.1	1375.3	1405.5	1433.2	1469.7
20°	1308.5	1321.1	1331.2	1338.7	1350.1	1352.6	1363.9	1387.9	1426.9	1469.7	1511.3
22.5°	1336.2	1345.0	1356.4	1360.2	1372.8	1375.3	1382.8	1406.8	1457.1	1511.3	1564.2
25°	1361.4	1371.5	1380.3	1384.1	1397.9	1400.5	1414.3	1434.5	1493.7	1555.4	1632.2
27.5°	1394.2	1404.2	1415.6	1419.4	1443.3	1445.8	1452.1	1482.3	1541.5	1613.3	1709.0
30°	1457.1	1463.4	1476.0	1491.1	1515.1	1517.6	1531.4	1562.9	1605.7	1693.9	1821.1
32.5°	1552.8	1561.7	1556.6	1576.8	1612.0	1612.0	1659.9	1712.8	1765.7	1827.4	1996.2
35°	1736.7	1731.7	1726.6	1709.0	1730.4	1738.0	1804.7	1894.1	2041.5	2215.3	2381.5
37.5°	1964.7	1963.4	1937.0	1896.7	1895.4	1897.9	1958.4	2109.5	2343.8	2730.4	2909.2
40°	2314.8	2324.9	2231.7	2148.5	2101.9	2091.9	2139.7	2329.9	2644.8	3159.8	3282.0
42.5°	2664.9	2643.5	2567.9	2433.2	2355.1	2348.8	2357.6	2523.8	2936.9	3507.4	3551.5
45°	2974.7	2991.1	2872.7	2790.8	2647.3	2649.8	2610.7	2763.1	3226.6	3753.0	3760.6
47.5°	3290.8	3303.4	3156.1	3062.9	2925.6	2925.6	2863.9	2984.8	3484.8	3987.3	3972.2
50°	3628.3	3657.3	3472.2	3331.1	3205.2	3200.1	3181.3	3256.8	3739.2	4185.0	4124.6
52.5°	4084.3	3984.8	3809.7	3618.3	3493.6	3478.5	3460.8	3515.0	4031.4	4346.2	4222.8
55°	4555.3	4420.5	4241.7	3984.8	3749.3	3770.7	3726.6	3788.3	4299.6	4538.9	4351.2
57.5°	4841.2	4891.5	4794.6	4574.2	4186.3	4182.5	4016.2	4049.0	4540.2	4701.4	4487.3
60°	5142.2	5212.7	5278.2	5147.2	4963.3	4880.2	4453.3	4326.1	4810.9	4819.7	4472.1
62.5°	5299.6	5285.7	5570.4	5585.5	5727.8	5737.9	5321.0	4685.0	4970.9	4919.2	4525.0
65°	5018.7	5026.3	5494.8	5739.1	6229.0	6258.0	6105.6	5316.0	5105.6	4965.8	4464.6
67.5°	4542.7	4585.5	4936.9	5541.4	6585.4	6580.4	6250.4	5865.1	5140.9	4955.8	4376.4
70°	3715.2	3760.6	4120.8	4998.6	6507.3	6465.8	6188.7	5909.1	5110.7	4865.1	3936.9
72.5°	2850.0	2843.7	3216.5	3992.3	5933.1	5973.4	5872.6	5598.1	4965.8	4477.2	3225.3
75°	2008.8	1977.3	2308.5	3026.4	4892.8	5041.4	5385.2	5309.7	4418.0	3685.0	2156.1
77.5°	1318.6	1366.5	1630.9	2238.0	3847.5	3972.2	4447.0	4297.1	3269.4	2351.3	778.3
80°	837.5	880.3	1094.4	1598.2	2797.1	2853.8	3241.7	2732.9	1746.8	775.8	108.3
82.5°	508.8	515.1	705.3	1080.6	1929.4	1929.4	2041.5	1527.7	683.9	100.8	70.5
85°	270.8	285.9	380.3	583.1	972.3	1045.3	925.7	583.1	132.2	55.4	42.8
87.5°	85.6	86.9	124.7	225.4	209.1	215.4	71.8	30.2	15.1	10.1	8.8
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°	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5	1342.5
2.5°	1340.0	1341.3	1348.8	1352.6	1353.9	1350.1	1358.9	1371.5	1367.7	1381.6	1376.5
5°	1340.0	1346.3	1356.4	1355.1	1365.2	1370.2	1380.3	1392.9	1389.1	1409.3	1401.7
7.5°	1350.1	1360.2	1367.7	1382.8	1390.4	1387.9	1410.5	1420.6	1415.6	1430.7	1423.1
10°	1375.3	1386.6	1396.7	1413.1	1424.4	1419.4	1431.9	1438.2	1429.4	1444.5	1440.8
12.5°	1404.2	1416.8	1437.0	1448.3	1457.1	1448.3	1448.3	1444.5	1431.9	1445.8	1437.0
15°	1437.0	1453.4	1481.1	1493.7	1491.1	1476.0	1462.2	1435.7	1401.7	1408.0	1395.4
17.5°	1481.1	1501.2	1532.7	1540.3	1530.2	1493.7	1457.1	1409.3	1348.8	1333.7	1323.6
20°	1528.9	1551.6	1595.7	1591.9	1569.2	1505.0	1447.1	1372.8	1278.3	1235.5	1215.3
22.5°	1594.4	1617.1	1658.6	1636.0	1589.4	1505.0	1406.8	1303.5	1191.4	1128.4	1114.6
25°	1666.2	1697.7	1715.3	1664.9	1584.3	1471.0	1352.6	1216.6	1073.0	1005.0	991.2
27.5°	1754.4	1775.8	1758.1	1668.7	1559.1	1414.3	1264.4	1100.7	963.4	905.5	885.4
30°	1857.6	1860.1	1790.9	1661.2	1502.5	1333.7	1156.1	983.6	877.8	823.7	811.1
32.5°	1994.9	1969.7	1819.8	1625.9	1425.6	1222.9	1035.2	905.5	817.4	749.3	731.7
35°	2352.6	2238.0	1884.1	1585.6	1332.5	1099.5	930.7	835.0	760.7	683.9	670.0
37.5°	2816.0	2613.3	1997.4	1544.0	1226.7	986.1	861.4	793.4	730.5	644.8	625.9
40°	3163.6	2929.4	2172.5	1498.7	1129.7	905.5	823.7	777.1	707.8	629.7	609.6
42.5°	3429.4	3192.6	2352.6	1448.3	1039.0	842.5	797.2	765.7	699.0	625.9	609.6
45°	3613.2	3376.5	2507.5	1389.1	923.1	788.4	777.1	746.8	682.6	612.1	595.7
47.5°	3799.6	3506.2	2594.4	1327.4	826.2	758.2	748.1	714.1	654.9	588.1	575.5
50°	3962.1	3653.5	2668.7	1264.4	749.3	721.6	715.3	670.0	613.3	550.4	534.0
52.5°	4008.7	3688.8	2638.5	1260.7	680.1	682.6	670.0	633.5	580.6	512.6	496.2
55°	4114.5	3787.0	2565.4	1144.8	613.3	622.1	619.6	600.7	551.6	488.6	476.1
57.5°	4159.8	3712.7	2459.6	851.4	544.1	551.6	573.0	573.0	530.2	473.5	462.2
60°	4153.5	3715.2	2270.7	595.7	476.1	496.2	526.4	526.4	492.4	437.0	423.2
62.5°	4105.7	3619.5	1957.1	454.6	433.2	462.2	497.5	474.8	444.6	382.9	372.8
65°	4026.3	3356.3	1356.4	399.2	409.3	443.3	460.9	433.2	396.7	341.3	335.0
67.5°	3708.9	2915.5	631.0	365.2	389.2	415.6	430.7	391.7	353.9	303.5	296.0
70°	3157.3	2133.4	272.0	338.8	365.2	384.1	399.2	358.9	318.6	274.6	272.0
72.5°	2295.9	1138.5	226.7	297.2	324.9	345.1	364.0	323.7	284.6	233.0	233.0
75°	1105.8	188.9	195.2	246.8	272.0	312.3	321.1	264.5	220.4	177.6	173.8
77.5°	136.0	122.2	168.8	196.5	217.9	239.3	260.7	229.2	190.2	146.1	138.5
80°	85.6	85.6	133.5	137.3	148.6	171.3	191.4	178.8	149.9	84.4	78.1
82.5°	63.0	68.0	88.2	65.5	78.1	98.2	112.1	127.2	108.3	59.2	55.4
85°	40.3	44.1	41.6	32.7	42.8	65.5	89.4	88.2	73.0	44.1	41.6
87.5°	8.8	8.8	8.8	7.6	8.8	11.3	21.4	41.6	30.2	23.9	22.7
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)