

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: P509417

Luminaire Tested: **VERD-CA2-90-740-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509417
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-CA2-90-740-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13027 lumens
Efficiency: N/A
Efficacy: 138.3 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

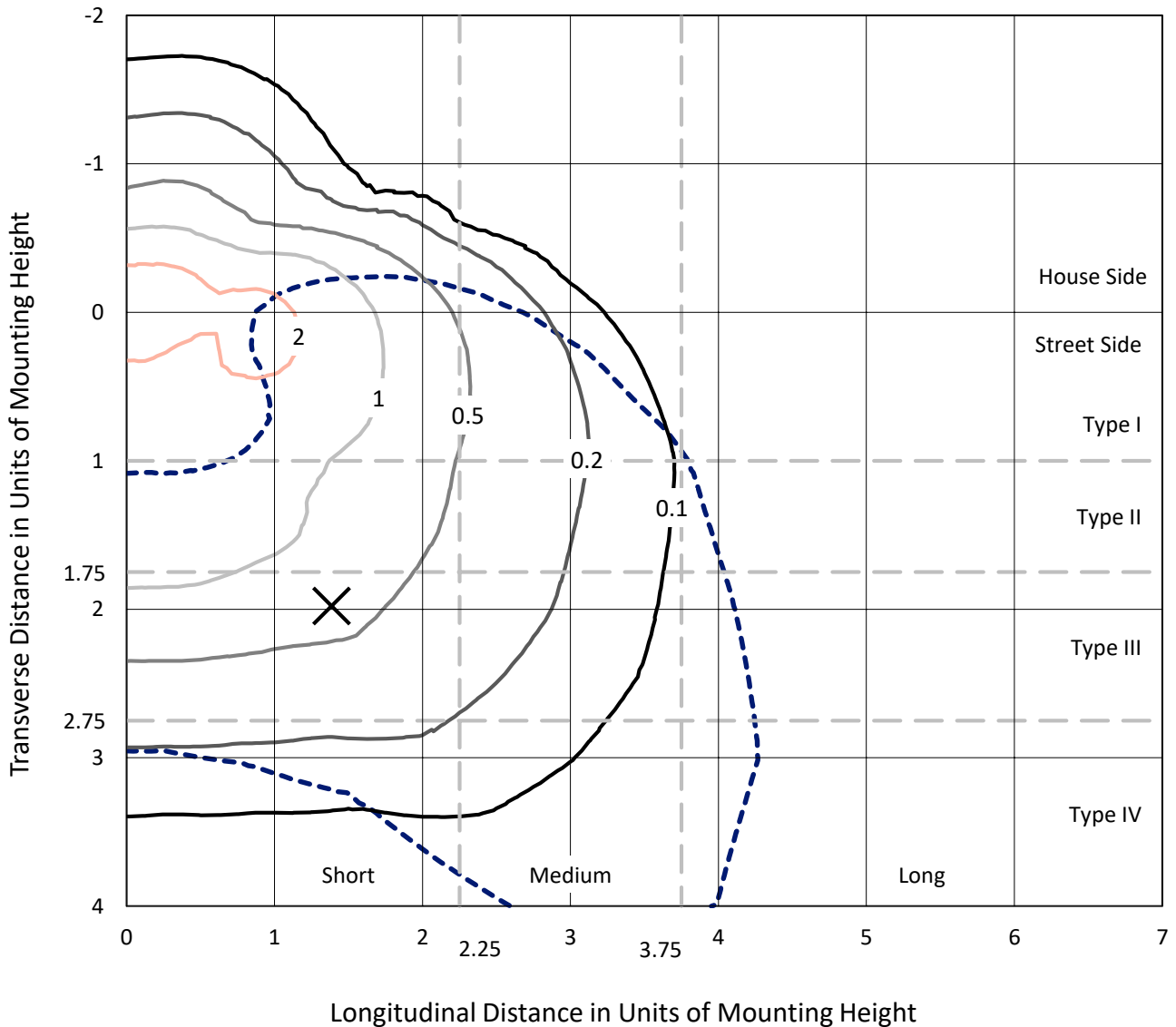
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

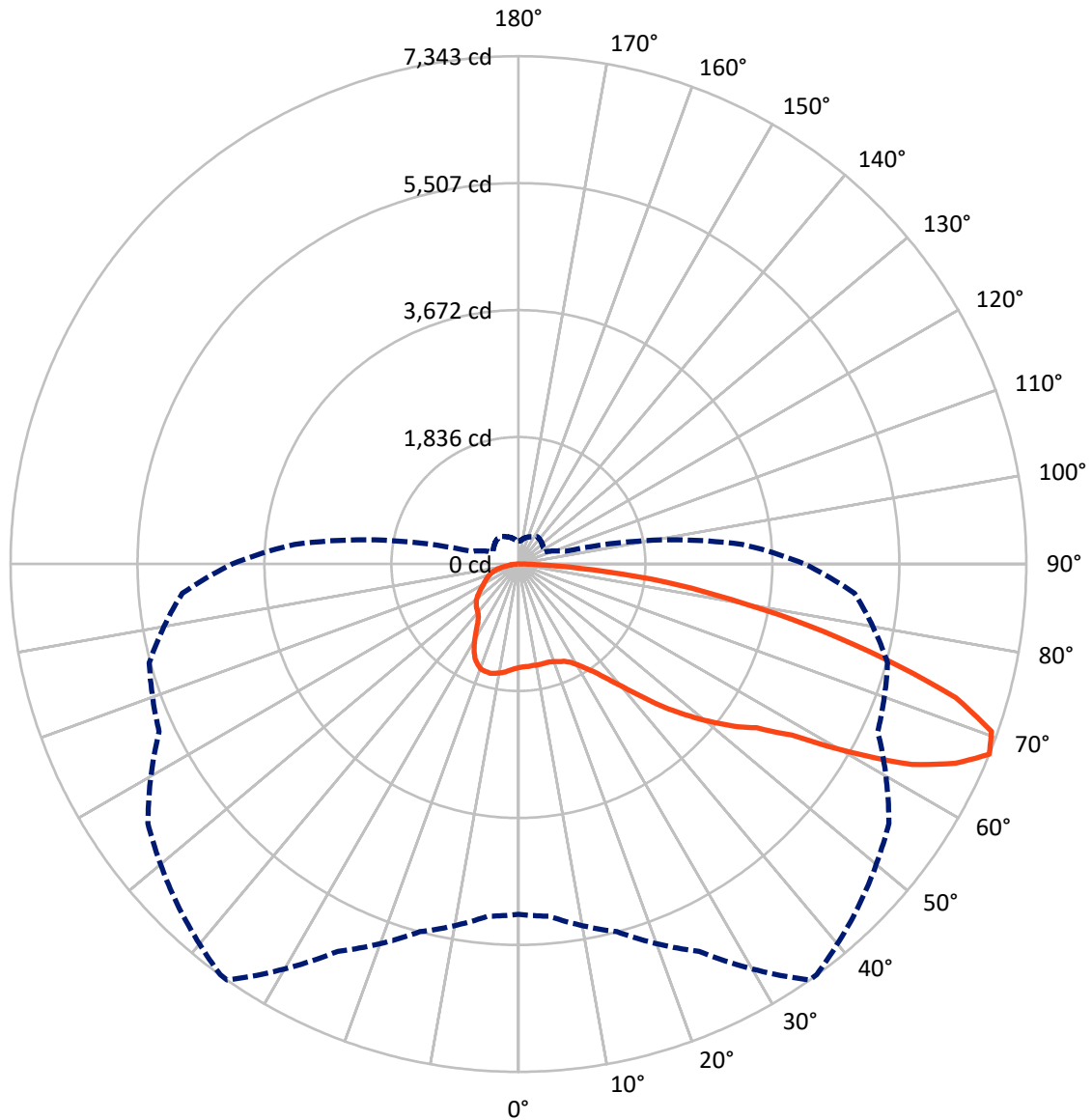
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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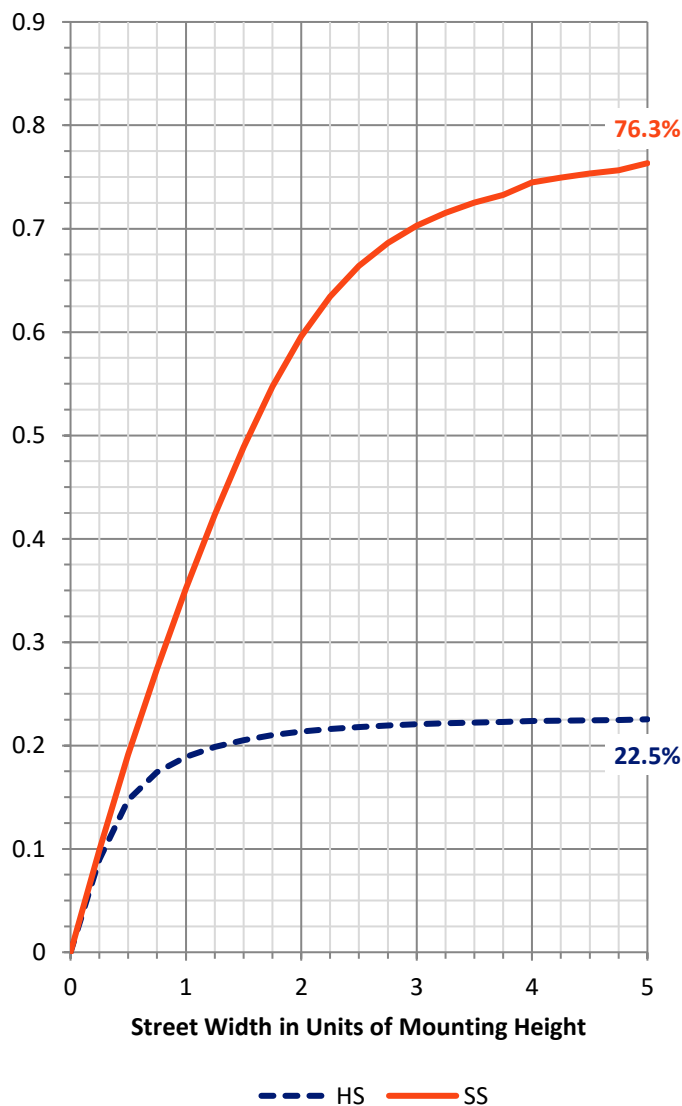
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2967.8	0.0	2967.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10059.2	0.0	10059.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	13027.0	0.0	13027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	1.1
10°-20°	444.4	3.4
20°-30°	741.6	5.7
30°-40°	1141.1	8.8
40°-50°	1880.4	14.4
50°-60°	2685.9	20.6
60°-70°	3344.1	25.7
70°-80°	2256.7	17.3
80°-90°	387.9	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°	13027.0	100.0
0°-180°	13027.0	100.0

Coefficient of Utilization



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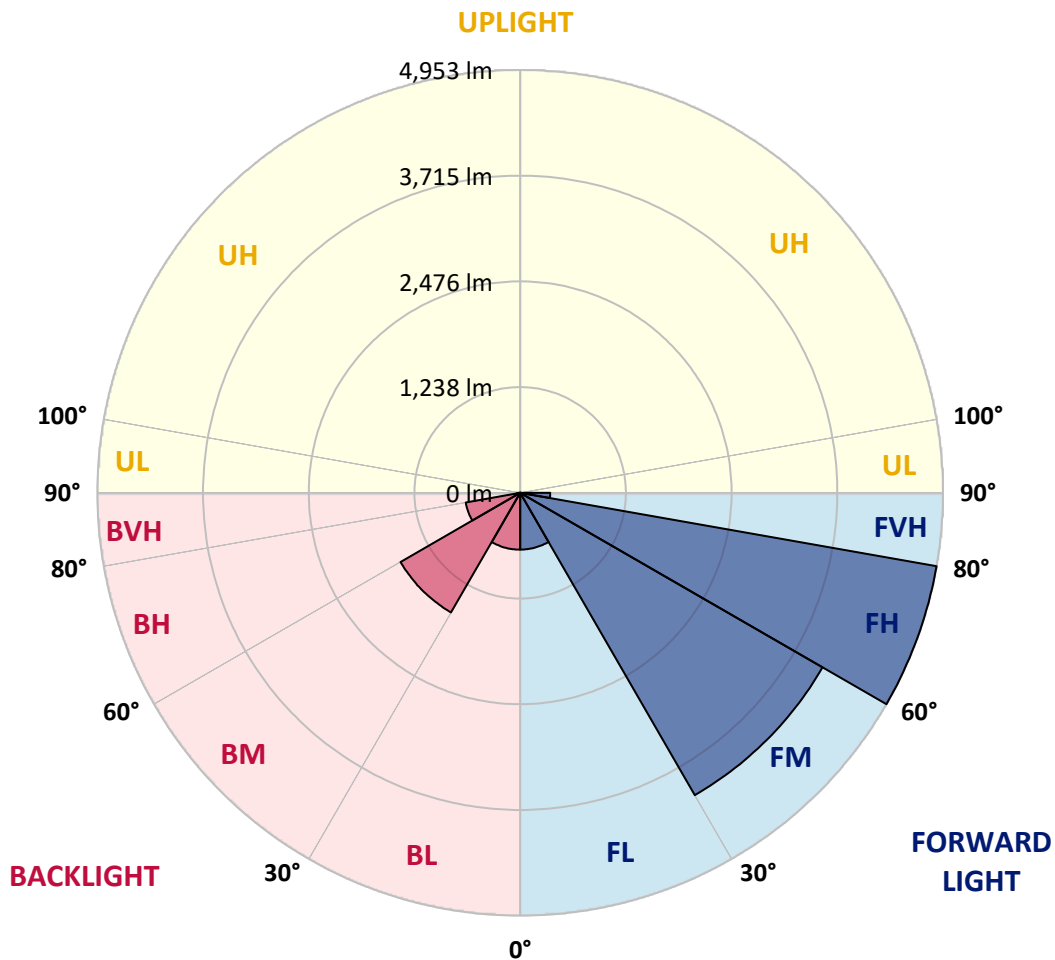
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.8	5.1			
FM (30°-60°)	4089.3	31.4			
FH (60°-80°)	4952.9	38.0			G2/5000
FVH (80°-90°)	352.1	2.7			G3/500
BL (0°-30°)	666.1	5.1	B2/1000		
BM (30°-60°)	1618.1	12.4	B2/2500		
BH (60°-80°)	647.9	5.0	B2/1000		G2/1000
BVH (80°-90°)	35.8	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°	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1475.9	1489.9	1488.5	1485.7	1487.1	1488.5	1481.5	1477.3	1482.9	1484.3	1491.4
5°	1474.5	1485.7	1484.3	1484.3	1488.5	1487.1	1475.9	1467.5	1477.3	1484.3	1491.4
7.5°	1473.1	1482.9	1482.9	1478.7	1481.5	1481.5	1475.9	1481.5	1481.5	1492.8	1501.2
10°	1471.7	1480.1	1480.1	1481.5	1485.7	1487.1	1487.1	1491.4	1506.8	1511.0	1527.9
12.5°	1454.8	1461.9	1467.5	1475.9	1484.3	1487.1	1494.2	1506.8	1526.5	1536.3	1555.9
15°	1440.8	1450.6	1460.5	1468.9	1481.5	1484.3	1499.8	1520.8	1541.9	1563.0	1592.5
17.5°	1446.4	1459.1	1470.3	1477.3	1487.1	1489.9	1505.4	1533.5	1567.2	1598.1	1638.8
20°	1459.1	1473.1	1484.3	1492.8	1505.4	1508.2	1520.8	1547.5	1591.1	1638.8	1685.1
22.5°	1489.9	1499.8	1512.4	1516.6	1530.7	1533.5	1541.9	1568.6	1624.8	1685.1	1744.1
25°	1518.0	1529.3	1539.1	1543.3	1558.8	1561.6	1577.0	1599.5	1665.5	1734.3	1820.0
27.5°	1554.5	1565.8	1578.4	1582.6	1609.3	1612.1	1619.1	1652.8	1718.8	1798.9	1905.6
30°	1624.8	1631.8	1645.8	1662.7	1689.4	1692.2	1707.6	1742.7	1790.5	1888.8	2030.6
32.5°	1731.5	1741.3	1735.7	1758.2	1797.5	1797.5	1850.8	1909.8	1968.8	2037.6	2225.8
35°	1936.5	1930.9	1925.3	1905.6	1929.5	1937.9	2012.3	2112.0	2276.3	2470.1	2655.5
37.5°	2190.7	2189.3	2159.8	2114.9	2113.5	2116.3	2183.7	2352.2	2613.4	3044.5	3243.9
40°	2581.1	2592.3	2488.4	2395.7	2343.8	2332.5	2385.9	2597.9	2949.0	3523.4	3659.6
42.5°	2971.5	2947.6	2863.3	2713.1	2626.0	2619.0	2628.8	2814.2	3274.8	3910.9	3960.1
45°	3316.9	3335.2	3203.2	3111.9	2951.8	2954.6	2911.1	3081.0	3597.8	4184.8	4193.2
47.5°	3669.4	3683.4	3519.1	3415.2	3262.2	3262.2	3193.3	3328.2	3885.7	4446.0	4429.1
50°	4045.7	4078.0	3871.6	3714.3	3573.9	3568.3	3547.2	3631.5	4169.3	4666.4	4599.0
52.5°	4554.1	4443.2	4248.0	4034.5	3895.5	3878.6	3859.0	3919.4	4495.1	4846.2	4708.6
55°	5079.3	4929.0	4729.6	4443.2	4180.6	4204.4	4155.3	4224.1	4794.2	5061.0	4851.8
57.5°	5398.1	5454.2	5346.1	5100.4	4667.8	4663.6	4478.3	4514.8	5062.5	5242.2	5003.5
60°	5733.7	5812.3	5885.4	5739.3	5534.3	5441.6	4965.6	4823.7	5364.4	5374.2	4986.6
62.5°	5909.2	5893.8	6211.2	6228.0	6386.7	6397.9	5933.1	5223.9	5542.7	5485.1	5045.6
65°	5596.1	5604.5	6126.9	6399.3	6945.6	6977.9	6808.0	5927.5	5693.0	5537.1	4978.2
67.5°	5065.3	5113.0	5504.8	6178.9	7343.0	7337.4	6969.5	6539.8	5732.3	5525.9	4879.9
70°	4142.6	4193.2	4594.8	5573.6	7255.9	7209.6	6900.7	6588.9	5698.6	5424.8	4389.8
72.5°	3177.9	3170.9	3586.5	4451.6	6615.6	6660.5	6548.2	6242.1	5537.1	4992.2	3596.4
75°	2239.8	2204.7	2574.1	3374.5	5455.7	5621.4	6004.7	5920.5	4926.2	4108.9	2404.1
77.5°	1470.3	1523.7	1818.6	2495.4	4290.1	4429.1	4958.5	4791.4	3645.5	2621.8	867.8
80°	933.9	981.6	1220.3	1782.0	3118.9	3182.1	3614.6	3047.3	1947.7	865.0	120.8
82.5°	567.3	574.4	786.4	1204.9	2151.4	2151.4	2276.3	1703.4	762.5	112.3	78.6
85°	301.9	318.8	424.1	650.2	1084.1	1165.6	1032.2	650.2	147.5	61.8	47.7
87.5°	95.5	96.9	139.0	251.4	233.1	240.1	80.0	33.7	16.9	11.2	9.8
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°	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0	1497.0
2.5°	1494.2	1495.6	1504.0	1508.2	1509.6	1505.4	1515.2	1529.3	1525.1	1540.5	1534.9
5°	1494.2	1501.2	1512.4	1511.0	1522.2	1527.9	1539.1	1553.1	1548.9	1571.4	1563.0
7.5°	1505.4	1516.6	1525.1	1541.9	1550.3	1547.5	1572.8	1584.0	1578.4	1595.3	1586.8
10°	1533.5	1546.1	1557.4	1575.6	1588.2	1582.6	1596.7	1603.7	1593.9	1610.7	1606.5
12.5°	1565.8	1579.8	1602.3	1614.9	1624.8	1614.9	1614.9	1610.7	1596.7	1612.1	1602.3
15°	1602.3	1620.5	1651.4	1665.5	1662.7	1645.8	1630.4	1600.9	1563.0	1570.0	1555.9
17.5°	1651.4	1673.9	1709.0	1717.4	1706.2	1665.5	1624.8	1571.4	1504.0	1487.1	1475.9
20°	1704.8	1730.1	1779.2	1775.0	1749.7	1678.1	1613.5	1530.7	1425.4	1377.6	1355.1
22.5°	1777.8	1803.1	1849.4	1824.2	1772.2	1678.1	1568.6	1453.4	1328.5	1258.2	1242.8
25°	1857.9	1893.0	1912.6	1856.5	1766.6	1640.2	1508.2	1356.5	1196.5	1120.6	1105.2
27.5°	1956.2	1980.0	1960.4	1860.7	1738.5	1577.0	1409.9	1227.3	1074.3	1009.7	987.2
30°	2071.3	2074.1	1996.9	1852.3	1675.3	1487.1	1289.1	1096.7	978.8	918.4	904.4
32.5°	2224.4	2196.3	2029.2	1812.9	1589.7	1363.6	1154.3	1009.7	911.4	835.6	815.9
35°	2623.2	2495.4	2100.8	1768.0	1485.7	1225.9	1037.8	931.0	848.2	762.5	747.1
37.5°	3140.0	2913.9	2227.2	1721.7	1367.8	1099.6	960.5	884.7	814.5	719.0	697.9
40°	3527.6	3266.4	2422.4	1671.1	1259.6	1009.7	918.4	866.4	789.2	702.1	679.7
42.5°	3823.9	3559.9	2623.2	1614.9	1158.5	939.5	888.9	853.8	779.4	697.9	679.7
45°	4028.9	3764.9	2795.9	1548.9	1029.3	879.1	866.4	832.7	761.1	682.5	664.2
47.5°	4236.7	3909.5	2892.8	1480.1	921.2	845.4	834.1	796.2	730.2	655.8	641.8
50°	4417.9	4073.8	2975.7	1409.9	835.6	804.7	797.6	747.1	683.9	613.7	595.4
52.5°	4469.8	4113.2	2942.0	1405.7	758.3	761.1	747.1	706.4	647.4	571.5	553.3
55°	4587.8	4222.7	2860.5	1276.5	683.9	693.7	690.9	669.8	615.1	544.9	530.8
57.5°	4638.4	4139.8	2742.6	949.3	606.7	615.1	639.0	639.0	591.2	528.0	515.4
60°	4631.3	4142.6	2531.9	664.2	530.8	553.3	587.0	587.0	549.1	487.3	471.8
62.5°	4578.0	4035.9	2182.3	506.9	483.1	515.4	554.7	529.4	495.7	426.9	415.7
65°	4489.5	3742.4	1512.4	445.2	456.4	494.3	514.0	483.1	442.4	380.6	373.5
67.5°	4135.6	3250.9	703.5	407.2	433.9	463.4	480.3	436.7	394.6	338.4	330.0
70°	3520.5	2378.9	303.3	377.8	407.2	428.3	445.2	400.2	355.3	306.1	303.3
72.5°	2560.0	1269.5	252.8	331.4	362.3	384.8	405.8	360.9	317.4	259.8	259.8
75°	1233.0	210.6	217.7	275.2	303.3	348.3	358.1	294.9	245.8	198.0	193.8
77.5°	151.7	136.2	188.2	219.1	242.9	266.8	290.7	255.6	212.0	162.9	154.5
80°	95.5	95.5	148.9	153.1	165.7	191.0	213.5	199.4	167.1	94.1	87.1
82.5°	70.2	75.8	98.3	73.0	87.1	109.5	125.0	141.8	120.8	66.0	61.8
85°	44.9	49.2	46.3	36.5	47.7	73.0	99.7	98.3	81.4	49.2	46.3
87.5°	9.8	9.8	9.8	8.4	9.8	12.6	23.9	46.3	33.7	26.7	25.3
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)