

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: P509409

Luminaire Tested: **VERD-CA2-90-730-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509409
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-CA2-90-730-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12791 lumens
Efficiency: N/A
Efficacy: 135.8 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

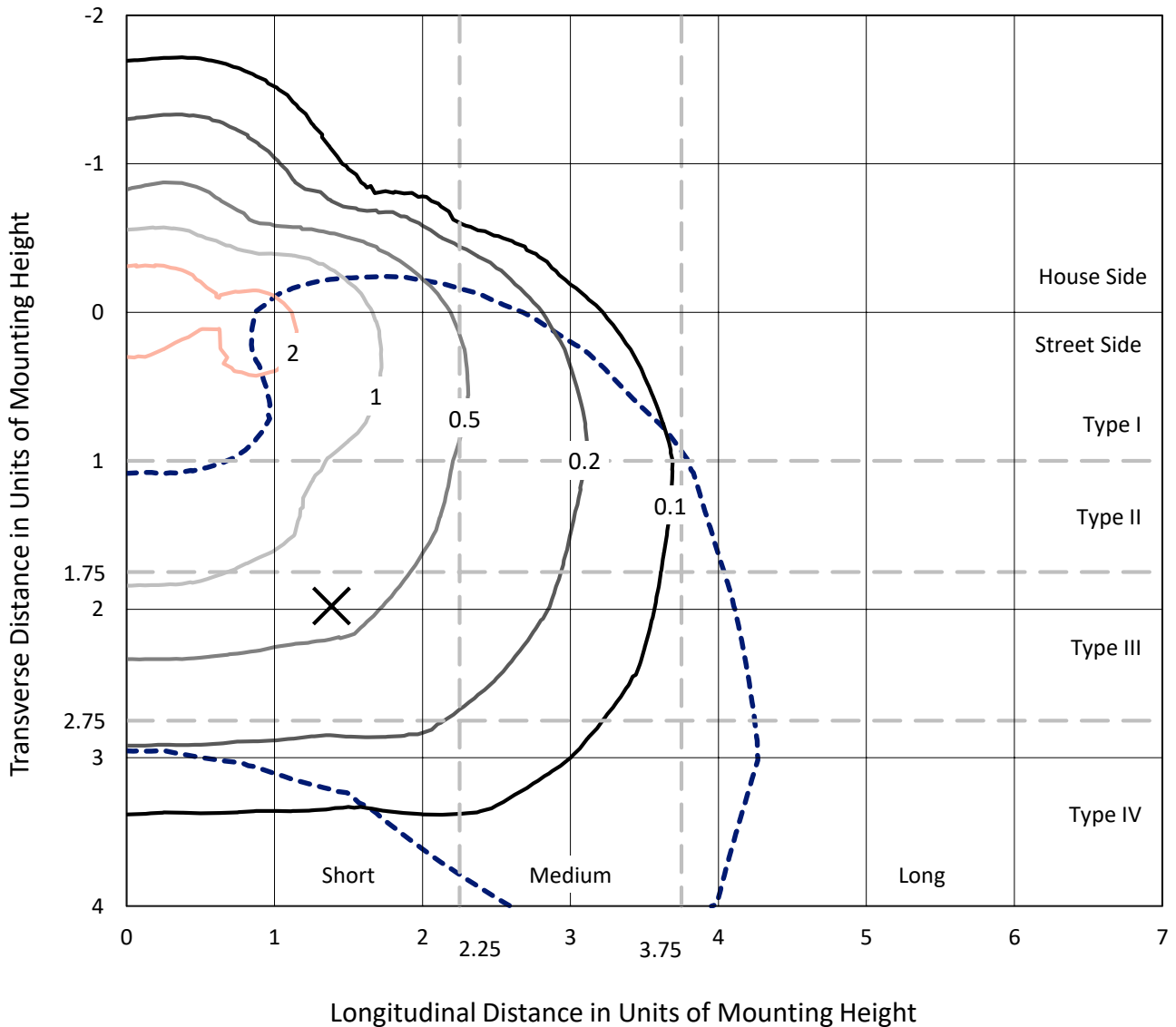
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

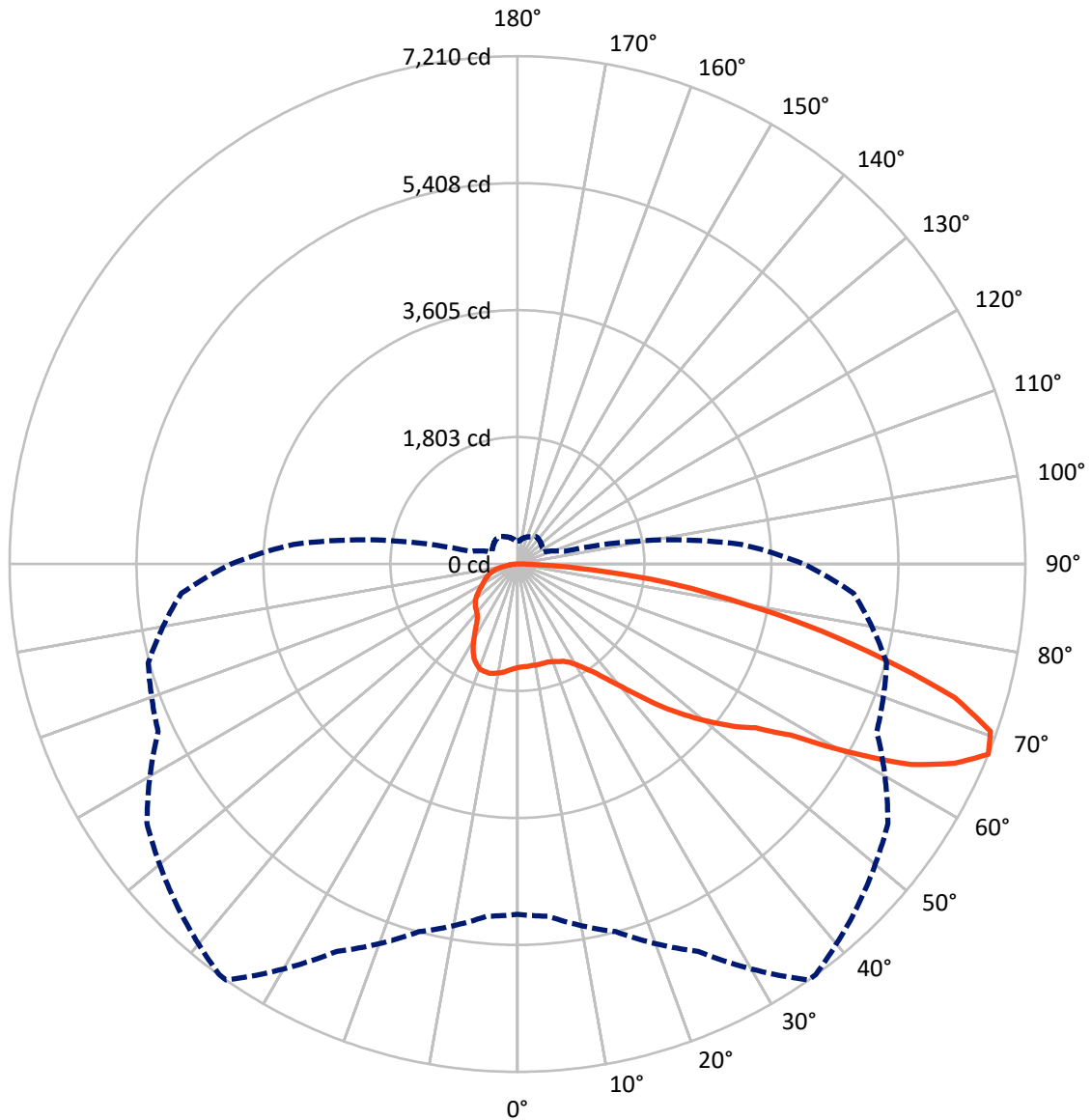
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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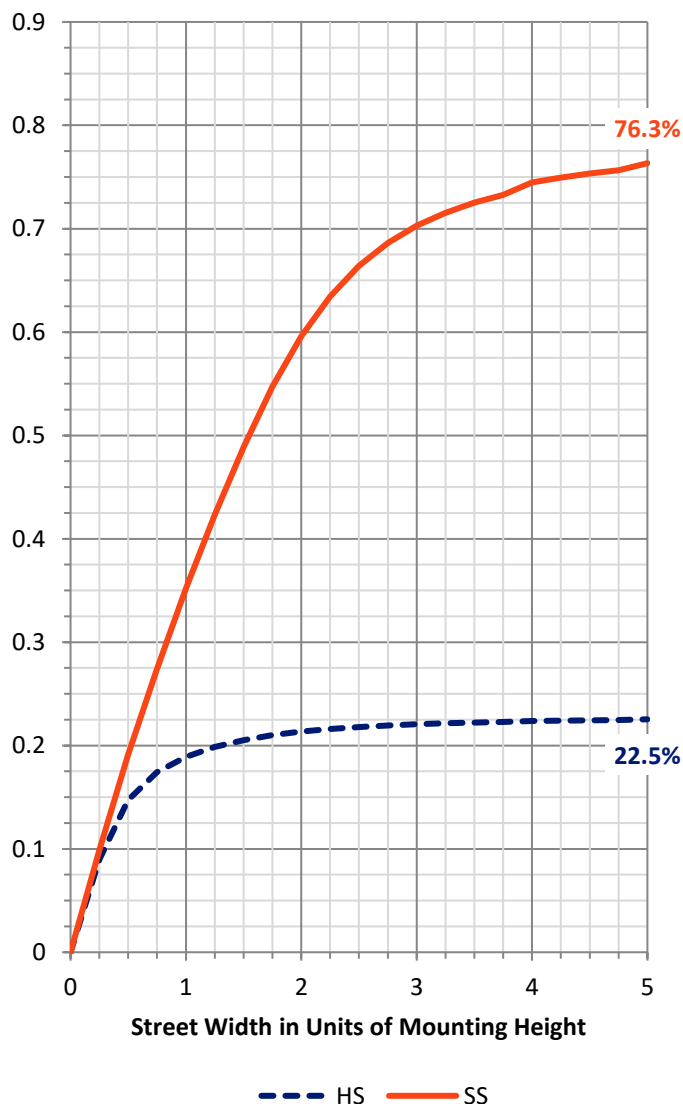
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2914.1	0.0	2914.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	9876.9	0.0	9876.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	12791.0	0.0	12791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	1.1
10°-20°	436.3	3.4
20°-30°	728.2	5.7
30°-40°	1120.4	8.8
40°-50°	1846.4	14.4
50°-60°	2637.2	20.6
60°-70°	3283.5	25.7
70°-80°	2215.8	17.3
80°-90°	380.9	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°	12791.0	100.0
0°-180°	12791.0	100.0

Coefficient of Utilization



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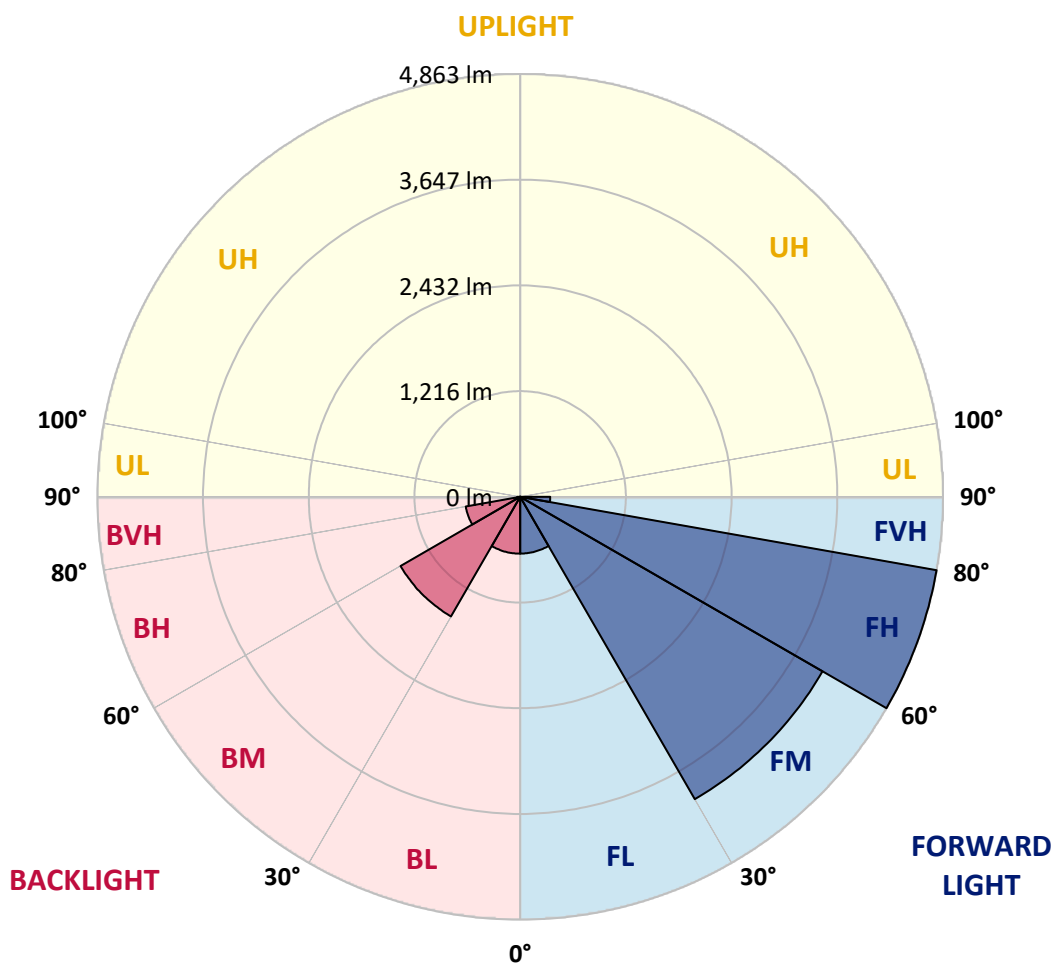
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.7	5.1			
FM	(30°-60°)	4015.2	31.4			
FH	(60°-80°)	4863.2	38.0			G2/5000
FVH	(80°-90°)	345.7	2.7			G3/500
BL	(0°-30°)	654.0	5.1	B2/1000		
BM	(30°-60°)	1588.8	12.4	B2/2500		
BH	(60°-80°)	636.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	35.1	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°	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8
2.5°	1449.2	1463.0	1461.6	1458.8	1460.2	1461.6	1454.7	1450.5	1456.1	1457.4	1464.3
5°	1447.8	1458.8	1457.4	1457.4	1461.6	1460.2	1449.2	1440.9	1450.5	1457.4	1464.3
7.5°	1446.4	1456.1	1456.1	1451.9	1454.7	1454.7	1449.2	1454.7	1454.7	1465.7	1474.0
10°	1445.0	1453.3	1453.3	1454.7	1458.8	1460.2	1460.2	1464.3	1479.5	1483.6	1500.2
12.5°	1428.5	1435.4	1440.9	1449.2	1457.4	1460.2	1467.1	1479.5	1498.8	1508.5	1527.8
15°	1414.7	1424.3	1434.0	1442.3	1454.7	1457.4	1472.6	1493.3	1514.0	1534.7	1563.6
17.5°	1420.2	1432.6	1443.7	1450.5	1460.2	1463.0	1478.1	1505.7	1538.8	1569.1	1609.1
20°	1432.6	1446.4	1457.4	1465.7	1478.1	1480.9	1493.3	1519.5	1562.2	1609.1	1654.6
22.5°	1463.0	1472.6	1485.0	1489.2	1502.9	1505.7	1514.0	1540.2	1595.3	1654.6	1712.5
25°	1490.5	1501.6	1511.2	1515.4	1530.5	1533.3	1548.4	1570.5	1635.3	1702.9	1787.0
27.5°	1526.4	1537.4	1549.8	1554.0	1580.2	1582.9	1589.8	1622.9	1687.7	1766.3	1871.1
30°	1595.3	1602.2	1616.0	1632.6	1658.8	1661.5	1676.7	1711.1	1758.0	1854.5	1993.8
32.5°	1700.1	1709.8	1704.3	1726.3	1764.9	1764.9	1817.3	1875.2	1933.1	2000.7	2185.5
35°	1901.4	1895.9	1890.4	1871.1	1894.5	1902.8	1975.9	2073.8	2235.1	2425.4	2607.4
37.5°	2151.0	2149.6	2120.7	2076.5	2075.2	2077.9	2144.1	2309.6	2566.0	2989.3	3185.1
40°	2534.3	2545.3	2443.3	2352.3	2301.3	2290.3	2342.7	2550.9	2895.6	3459.5	3593.3
42.5°	2917.6	2894.2	2811.5	2663.9	2578.4	2571.5	2581.2	2763.2	3215.5	3840.1	3888.3
45°	3256.8	3274.8	3145.1	3055.5	2898.3	2901.1	2858.3	3025.2	3532.6	4109.0	4117.2
47.5°	3602.9	3616.7	3455.4	3353.4	3203.1	3203.1	3135.5	3267.9	3815.3	4365.4	4348.9
50°	3972.5	4004.2	3801.5	3647.0	3509.2	3503.6	3483.0	3565.7	4093.8	4581.9	4515.7
52.5°	4471.6	4362.7	4171.0	3961.4	3824.9	3808.4	3789.1	3848.4	4413.7	4758.4	4623.3
55°	4987.3	4839.7	4644.0	4362.7	4104.8	4128.3	4080.0	4147.6	4707.4	4969.4	4763.9
57.5°	5300.3	5355.4	5249.3	5008.0	4583.3	4579.1	4397.1	4433.0	4970.7	5147.2	4912.8
60°	5629.8	5707.0	5778.7	5635.3	5434.0	5343.0	4875.6	4736.3	5267.2	5276.8	4896.3
62.5°	5802.2	5787.0	6098.6	6115.2	6271.0	6282.0	5825.6	5129.3	5442.3	5385.8	4954.2
65°	5494.7	5503.0	6015.9	6283.4	6819.8	6851.5	6684.6	5820.1	5589.8	5436.8	4888.0
67.5°	4973.5	5020.4	5405.1	6066.9	7210.0	7204.5	6843.2	6421.3	5628.4	5425.8	4791.5
70°	4067.6	4117.2	4511.6	5472.6	7124.5	7079.0	6775.6	6469.5	5595.4	5326.5	4310.3
72.5°	3120.3	3113.4	3521.6	4370.9	6495.7	6539.9	6429.6	6129.0	5436.8	4901.8	3531.2
75°	2199.3	2164.8	2527.4	3313.4	5356.8	5519.5	5895.9	5813.2	4837.0	4034.5	2360.6
77.5°	1443.7	1496.0	1785.6	2450.2	4212.4	4348.9	4868.7	4704.6	3579.5	2574.3	852.1
80°	916.9	963.8	1198.2	1749.8	3062.4	3124.5	3549.1	2992.1	1912.5	849.4	118.6
82.5°	557.1	563.9	772.2	1183.0	2112.4	2112.4	2235.1	1672.5	748.7	110.3	77.2
85°	296.5	313.0	416.4	638.4	1064.5	1144.4	1013.5	638.4	144.8	60.7	46.9
87.5°	93.8	95.1	136.5	246.8	228.9	235.8	78.6	33.1	16.5	11.0	9.7
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°	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8	1469.8
2.5°	1467.1	1468.5	1476.7	1480.9	1482.3	1478.1	1487.8	1501.6	1497.4	1512.6	1507.1
5°	1467.1	1474.0	1485.0	1483.6	1494.7	1500.2	1511.2	1525.0	1520.9	1542.9	1534.7
7.5°	1478.1	1489.2	1497.4	1514.0	1522.2	1519.5	1544.3	1555.3	1549.8	1566.4	1558.1
10°	1505.7	1518.1	1529.1	1547.1	1559.5	1554.0	1567.7	1574.6	1565.0	1581.5	1577.4
12.5°	1537.4	1551.2	1573.3	1585.7	1595.3	1585.7	1585.7	1581.5	1567.7	1582.9	1573.3
15°	1573.3	1591.2	1621.5	1635.3	1632.6	1616.0	1600.8	1571.9	1534.7	1541.5	1527.8
17.5°	1621.5	1643.6	1678.1	1686.3	1675.3	1635.3	1595.3	1542.9	1476.7	1460.2	1449.2
20°	1673.9	1698.7	1747.0	1742.9	1718.0	1647.7	1584.3	1502.9	1399.5	1352.6	1330.6
22.5°	1745.6	1770.4	1815.9	1791.1	1740.1	1647.7	1540.2	1427.1	1304.4	1235.4	1220.3
25°	1824.2	1858.7	1878.0	1822.8	1734.6	1610.5	1480.9	1332.0	1174.8	1100.3	1085.2
27.5°	1920.7	1944.2	1924.9	1827.0	1707.0	1548.4	1384.4	1205.1	1054.8	991.4	969.3
30°	2033.8	2036.6	1960.7	1818.7	1645.0	1460.2	1265.8	1076.9	961.1	901.8	888.0
32.5°	2184.1	2156.5	1992.4	1780.1	1560.9	1338.9	1133.4	991.4	894.9	820.4	801.1
35°	2575.7	2450.2	2062.8	1736.0	1458.8	1203.7	1019.0	914.2	832.8	748.7	733.5
37.5°	3083.1	2861.1	2186.8	1690.5	1343.0	1079.6	943.1	868.7	799.7	706.0	685.3
40°	3463.7	3207.2	2378.5	1640.8	1236.8	991.4	901.8	850.7	774.9	689.4	667.4
42.5°	3754.6	3495.4	2575.7	1585.7	1137.5	922.4	872.8	838.3	765.3	685.3	667.4
45°	3955.9	3696.7	2745.3	1520.9	1010.7	863.2	850.7	817.7	747.3	670.1	652.2
47.5°	4160.0	3838.7	2840.4	1453.3	904.5	830.1	819.0	781.8	717.0	643.9	630.1
50°	4337.8	4000.0	2921.8	1384.4	820.4	790.1	783.2	733.5	671.5	602.6	584.6
52.5°	4388.9	4038.6	2888.7	1380.2	744.6	747.3	733.5	693.6	635.6	561.2	543.3
55°	4504.7	4146.2	2808.7	1253.4	671.5	681.1	678.4	657.7	603.9	535.0	521.2
57.5°	4554.3	4064.8	2692.9	932.1	595.7	603.9	627.4	627.4	580.5	518.4	506.0
60°	4547.4	4067.6	2486.1	652.2	521.2	543.3	576.4	576.4	539.1	478.5	463.3
62.5°	4495.0	3962.8	2142.7	497.8	474.3	506.0	544.6	519.8	486.7	419.2	408.1
65°	4408.2	3674.6	1485.0	437.1	448.1	485.4	504.7	474.3	434.3	373.7	366.8
67.5°	4060.7	3192.0	690.8	399.9	426.1	455.0	471.6	428.8	387.5	332.3	324.0
70°	3456.8	2335.8	297.8	370.9	399.9	420.5	437.1	393.0	348.8	300.6	297.8
72.5°	2513.6	1246.5	248.2	325.4	355.7	377.8	398.5	354.4	311.6	255.1	255.1
75°	1210.6	206.8	213.7	270.3	297.8	342.0	351.6	289.6	241.3	194.4	190.3
77.5°	148.9	133.7	184.8	215.1	238.5	262.0	285.4	250.9	208.2	159.9	151.7
80°	93.8	93.8	146.2	150.3	162.7	187.5	209.6	195.8	164.1	92.4	85.5
82.5°	68.9	74.5	96.5	71.7	85.5	107.5	122.7	139.3	118.6	64.8	60.7
85°	44.1	48.3	45.5	35.8	46.9	71.7	97.9	96.5	80.0	48.3	45.5
87.5°	9.7	9.7	9.7	8.3	9.7	12.4	23.4	45.5	33.1	26.2	24.8
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)