

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: P509277

Luminaire Tested: **VERD-CA2-60-750-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-750-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 850mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9339 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

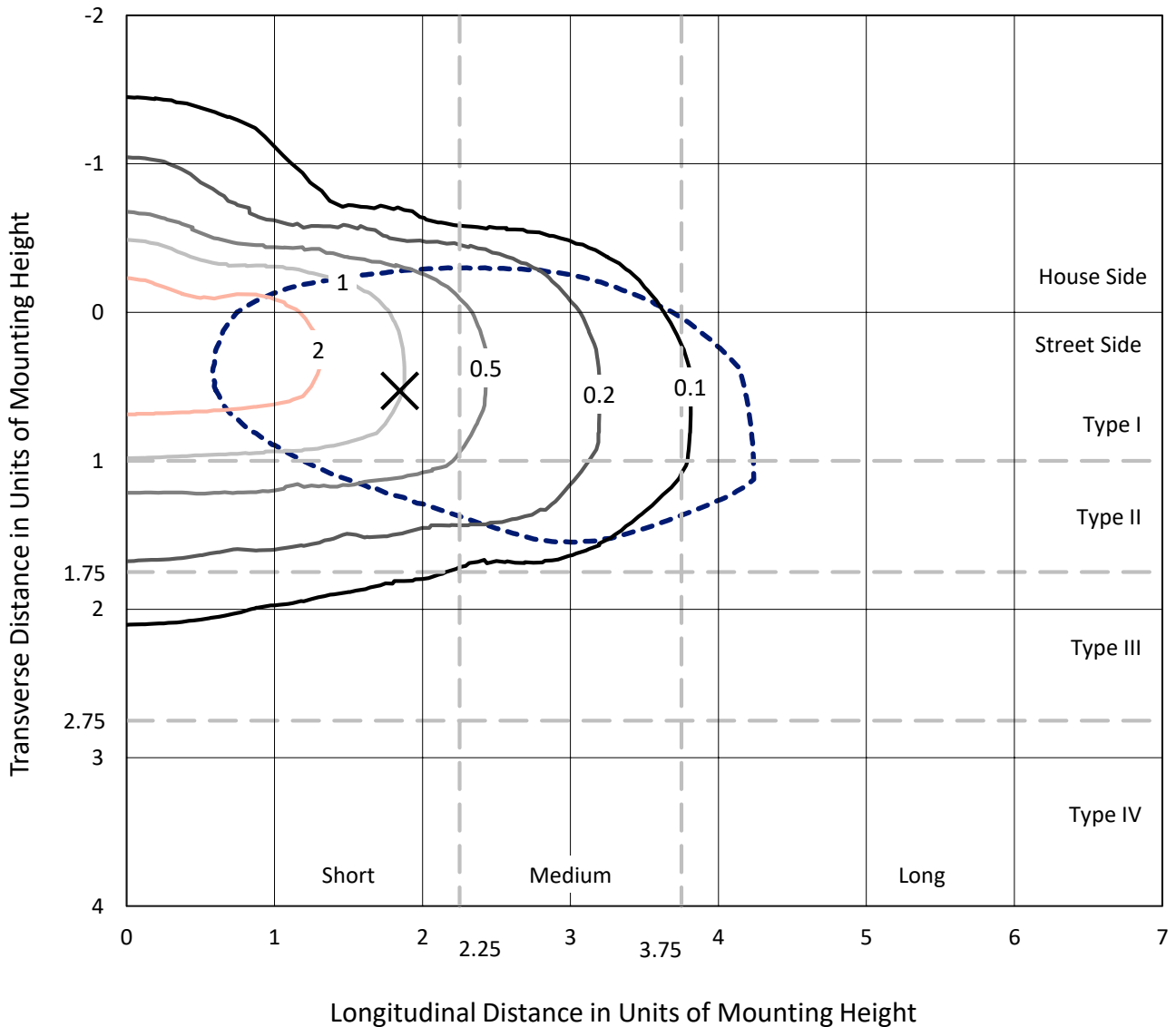
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

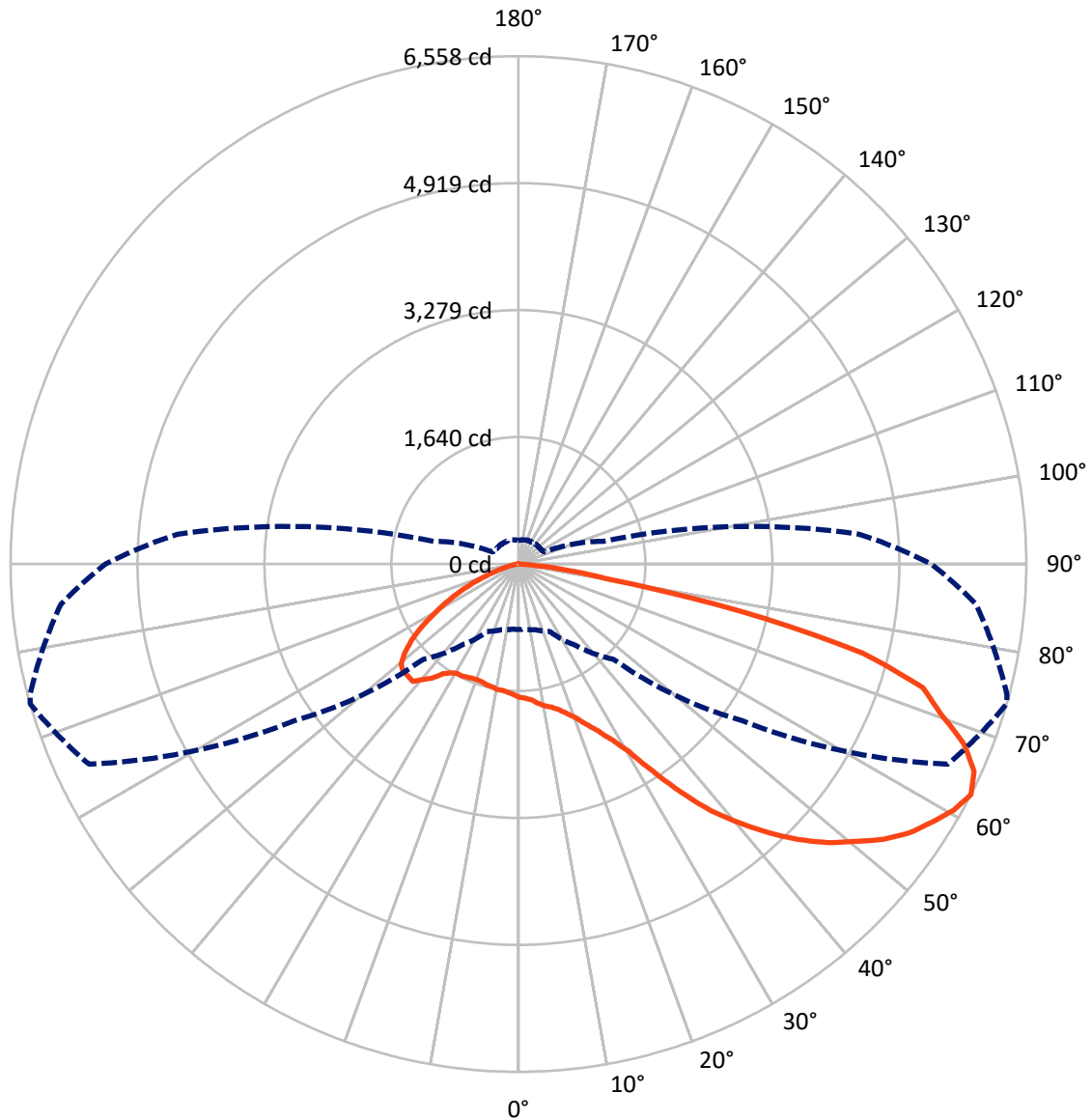
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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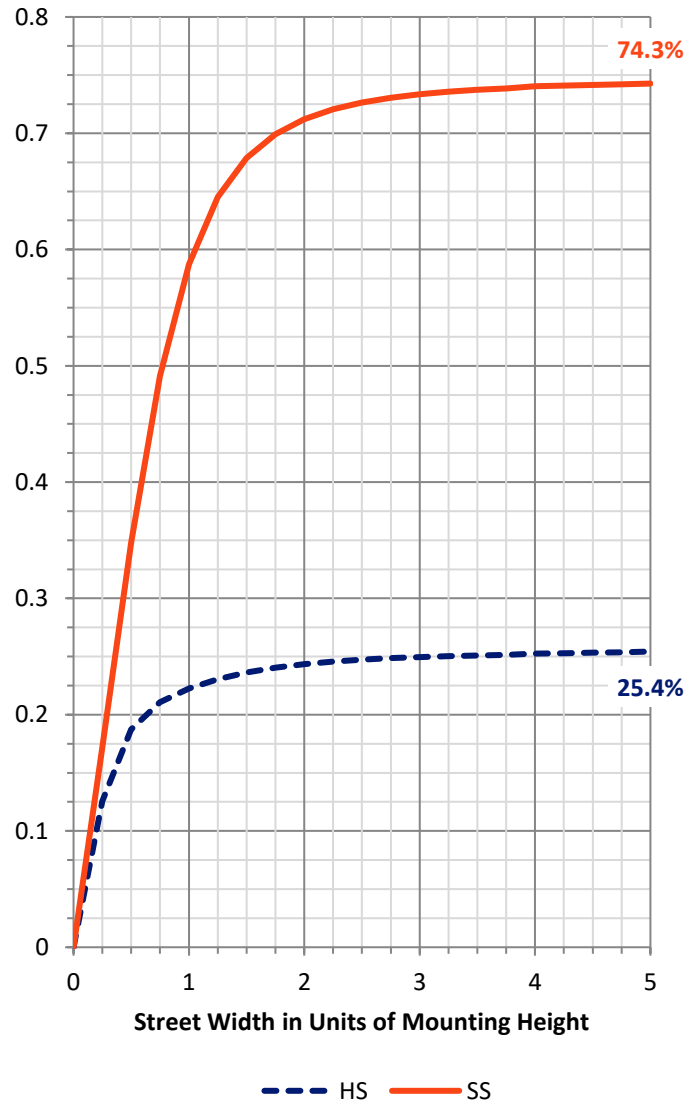
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2411.4	0.0	2411.4
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	6927.6	0.0	6927.6
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	9339.0	0.0	9339.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	1.8
10°-20°	504.5	5.4
20°-30°	850.7	9.1
30°-40°	1242.9	13.3
40°-50°	1655.0	17.7
50°-60°	1904.6	20.4
60°-70°	1840.5	19.7
70°-80°	1059.5	11.3
80°-90°	115.9	1.2
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°	9339.0	100.0
0°-180°	9339.0	100.0



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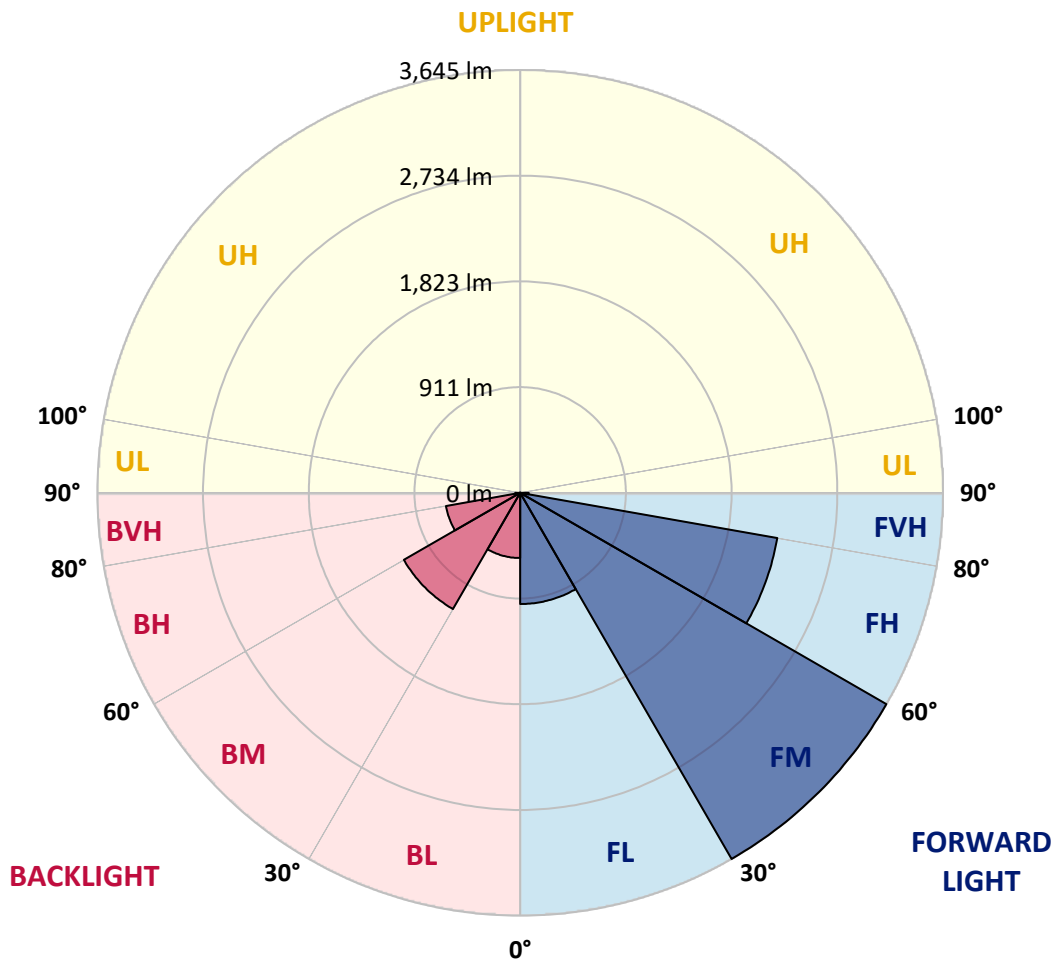
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.5	10.3			
FM (30°-60°)	3645.0	39.0			
FH (60°-80°)	2250.8	24.1			G2/5000
FVH (80°-90°)	73.3	0.8			G1/100
BL (0°-30°)	562.2	6.0	B2/1000		
BM (30°-60°)	1157.4	12.4	B2/2500		
BH (60°-80°)	649.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	42.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1
2.5°	1843.2	1830.0	1821.9	1812.7	1801.5	1797.4	1773.0	1751.6	1734.3	1735.3	1724.1
5°	1910.5	1896.2	1877.9	1874.8	1860.6	1857.5	1834.1	1800.5	1762.8	1757.7	1724.1
7.5°	1985.8	1977.7	1966.5	1952.2	1928.8	1913.5	1879.9	1853.4	1814.7	1809.6	1743.4
10°	2077.5	2071.4	2063.2	2063.2	2032.7	2000.1	1959.3	1893.1	1862.6	1857.5	1777.1
12.5°	2185.4	2167.1	2140.6	2125.3	2096.8	2076.5	2032.7	1962.4	1896.2	1894.2	1808.6
15°	2255.7	2240.4	2223.1	2217.0	2180.3	2146.7	2099.9	2043.9	1951.2	1944.1	1847.3
17.5°	2334.1	2319.8	2299.5	2288.3	2264.9	2226.2	2184.4	2111.1	2028.6	2021.5	1891.1
20°	2377.9	2362.6	2356.5	2358.5	2350.4	2331.0	2281.1	2215.0	2120.2	2111.1	1951.2
22.5°	2426.8	2416.6	2418.6	2433.9	2449.2	2442.0	2403.4	2330.0	2248.6	2234.3	2047.9
25°	2427.8	2419.6	2447.1	2506.2	2538.8	2555.1	2534.7	2474.6	2388.1	2374.8	2171.2
27.5°	2445.1	2432.9	2462.4	2524.5	2623.3	2656.9	2664.1	2641.7	2567.3	2551.0	2318.8
30°	2400.3	2392.1	2437.0	2544.9	2661.0	2773.0	2813.8	2848.4	2806.6	2807.6	2546.9
32.5°	2322.9	2308.6	2376.9	2509.3	2725.2	2877.9	2985.9	3125.4	3189.5	3183.4	2944.1
35°	2175.2	2183.4	2275.0	2477.7	2727.2	2984.8	3196.7	3446.2	3620.3	3616.2	3355.5
37.5°	2070.3	2066.3	2174.2	2389.1	2726.2	3079.5	3401.4	3816.8	4041.9	4035.8	3708.9
40°	1944.1	1945.1	2053.0	2279.1	2678.3	3138.6	3613.2	4168.2	4397.3	4388.2	4047.0
42.5°	1808.6	1812.7	1913.5	2144.7	2612.1	3183.4	3802.6	4523.6	4745.6	4753.7	4317.9
45°	1687.4	1689.5	1789.3	2001.1	2495.0	3188.5	3972.7	4859.7	5075.6	5056.2	4602.0
47.5°	1509.2	1511.3	1658.9	1864.6	2340.2	3146.8	4113.2	5179.4	5377.0	5336.3	4842.3
50°	1182.3	1186.4	1361.6	1723.1	2151.8	3051.0	4224.2	5479.8	5632.6	5615.3	5088.8
52.5°	1091.7	1088.6	1162.0	1554.0	1982.8	2877.9	4294.5	5749.7	5904.5	5902.5	5292.5
55°	1045.9	1042.8	1067.3	1259.7	1816.8	2621.3	4292.4	5959.5	6129.6	6087.8	5478.8
57.5°	964.4	958.3	1021.4	1116.1	1631.4	2301.5	4190.6	6147.9	6292.5	6280.3	5646.9
60°	906.3	901.3	944.0	1031.6	1433.9	1976.7	3928.9	6245.7	6456.5	6461.6	5788.4
62.5°	846.3	843.2	879.9	961.3	1279.1	1739.4	3525.6	6117.3	6558.3	6530.8	5930.0
65°	778.0	776.0	810.6	876.8	1125.3	1559.1	3130.5	5888.2	6466.6	6498.2	5948.3
67.5°	696.6	695.5	729.2	775.0	957.3	1377.9	2525.6	5618.3	6204.9	6170.3	5713.1
70°	596.8	592.7	634.4	677.2	801.5	1172.1	1965.5	5138.7	5779.2	5904.5	5244.6
72.5°	502.1	500.0	539.7	571.3	664.0	957.3	1433.9	4444.2	5460.5	5280.2	4725.2
75°	393.1	382.9	424.7	454.2	523.4	761.7	977.6	2968.5	4595.9	4558.2	3969.6
77.5°	158.9	184.3	220.0	246.4	292.3	431.8	511.2	1408.4	2931.9	3061.2	2760.8
80°	61.1	65.2	156.8	177.2	196.5	248.5	196.5	593.7	1156.9	1261.8	1598.8
82.5°	34.6	38.7	77.4	74.3	73.3	63.1	73.3	291.3	603.9	661.9	771.9
85°	19.3	21.4	31.6	34.6	29.5	25.5	22.4	76.4	150.7	142.6	159.9
87.5°	3.1	4.1	5.1	5.1	3.1	3.1	3.1	4.1	4.1	4.1	5.1
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°	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1	1722.1
2.5°	1712.9	1701.7	1690.5	1677.3	1661.0	1650.8	1646.7	1651.8	1666.1	1648.7	1634.5
5°	1706.8	1691.5	1666.1	1640.6	1620.2	1602.9	1579.5	1577.5	1581.5	1574.4	1556.1
7.5°	1720.0	1697.6	1645.7	1628.4	1585.6	1544.9	1531.6	1526.5	1514.3	1500.1	1482.7
10°	1746.5	1700.7	1647.7	1596.8	1557.1	1513.3	1462.4	1463.4	1458.3	1442.0	1425.7
12.5°	1759.7	1705.8	1628.4	1574.4	1513.3	1459.3	1409.4	1387.0	1396.2	1382.9	1365.6
15°	1784.2	1727.2	1621.2	1541.8	1458.3	1397.2	1359.5	1326.9	1306.6	1309.6	1299.4
17.5°	1830.0	1746.5	1602.9	1506.2	1415.5	1343.2	1270.9	1267.9	1237.3	1220.0	1204.7
20°	1877.9	1781.1	1600.9	1467.5	1346.3	1256.7	1198.6	1166.0	1147.7	1133.4	1122.2
22.5°	1940.0	1829.0	1608.0	1445.1	1284.2	1183.3	1109.0	1065.2	1035.7	1025.5	1017.4
25°	2027.6	1889.1	1627.4	1405.3	1219.0	1102.9	1002.1	956.2	922.6	914.5	908.4
27.5°	2147.7	1965.5	1646.7	1362.6	1142.6	989.9	882.9	838.1	800.4	799.4	788.2
30°	2337.2	2082.6	1653.8	1324.9	1061.1	868.7	761.7	720.0	691.5	680.3	688.4
32.5°	2690.5	2341.2	1698.6	1266.9	958.3	750.5	659.9	626.3	594.7	582.5	590.7
35°	3072.4	2650.8	1774.0	1227.1	845.2	638.5	576.4	536.7	498.0	491.9	488.8
37.5°	3352.5	2932.9	1916.6	1162.0	738.3	570.3	488.8	456.2	433.8	421.6	432.8
40°	3670.2	3167.1	2024.5	1092.7	629.4	498.0	407.3	397.2	387.0	378.8	391.1
42.5°	3921.7	3408.5	2152.8	1001.1	541.8	422.6	362.5	370.7	375.8	371.7	372.7
45°	4152.9	3587.7	2161.0	861.5	462.3	366.6	349.3	365.6	377.8	375.8	374.8
47.5°	4379.0	3801.6	2180.3	713.9	405.3	352.4	350.3	362.5	378.8	381.9	381.9
50°	4612.2	3964.5	2150.8	574.4	383.9	354.4	353.4	352.4	372.7	373.7	376.8
52.5°	4787.4	4096.9	2011.3	474.6	382.9	360.5	358.5	348.3	357.4	364.6	359.5
55°	4972.7	4261.9	1835.1	436.9	380.9	362.5	370.7	353.4	347.3	341.2	347.3
57.5°	5148.9	4377.0	1603.9	414.5	372.7	359.5	375.8	352.4	339.1	321.8	315.7
60°	5284.3	4403.4	1346.3	391.1	362.5	352.4	353.4	345.2	327.9	306.5	297.4
62.5°	5330.1	4418.7	1132.4	368.6	342.2	341.2	333.0	330.0	322.8	309.6	305.5
65°	5291.4	4245.6	904.3	341.2	324.9	325.9	313.7	303.5	287.2	265.8	263.8
67.5°	5025.7	3941.1	693.5	306.5	298.4	308.6	295.3	278.0	259.7	245.4	247.5
70°	4570.4	3580.6	486.8	258.7	267.8	286.2	281.1	258.7	238.3	226.1	228.1
72.5°	4064.3	3033.7	331.0	201.6	217.9	256.6	256.6	241.4	221.0	204.7	200.6
75°	3205.8	2383.0	213.9	133.4	143.6	209.8	227.1	203.7	181.3	171.1	167.0
77.5°	2176.3	1552.0	136.5	76.4	95.7	137.5	179.2	182.3	214.9	215.9	206.7
80°	1279.1	888.0	83.5	44.8	47.9	79.4	143.6	180.3	228.1	160.9	147.7
82.5°	636.5	378.8	37.7	27.5	28.5	39.7	77.4	206.7	176.2	100.8	96.7
85°	141.6	62.1	15.3	14.3	16.3	20.4	39.7	171.1	107.9	81.5	79.4
87.5°	5.1	4.1	4.1	4.1	3.1	3.1	8.1	56.0	42.8	35.6	33.6
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)