

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: P509176

Luminaire Tested: **VERD-CA2-120-740-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-740-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15544 lumens
Efficiency: N/A
Efficacy: 126.7 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

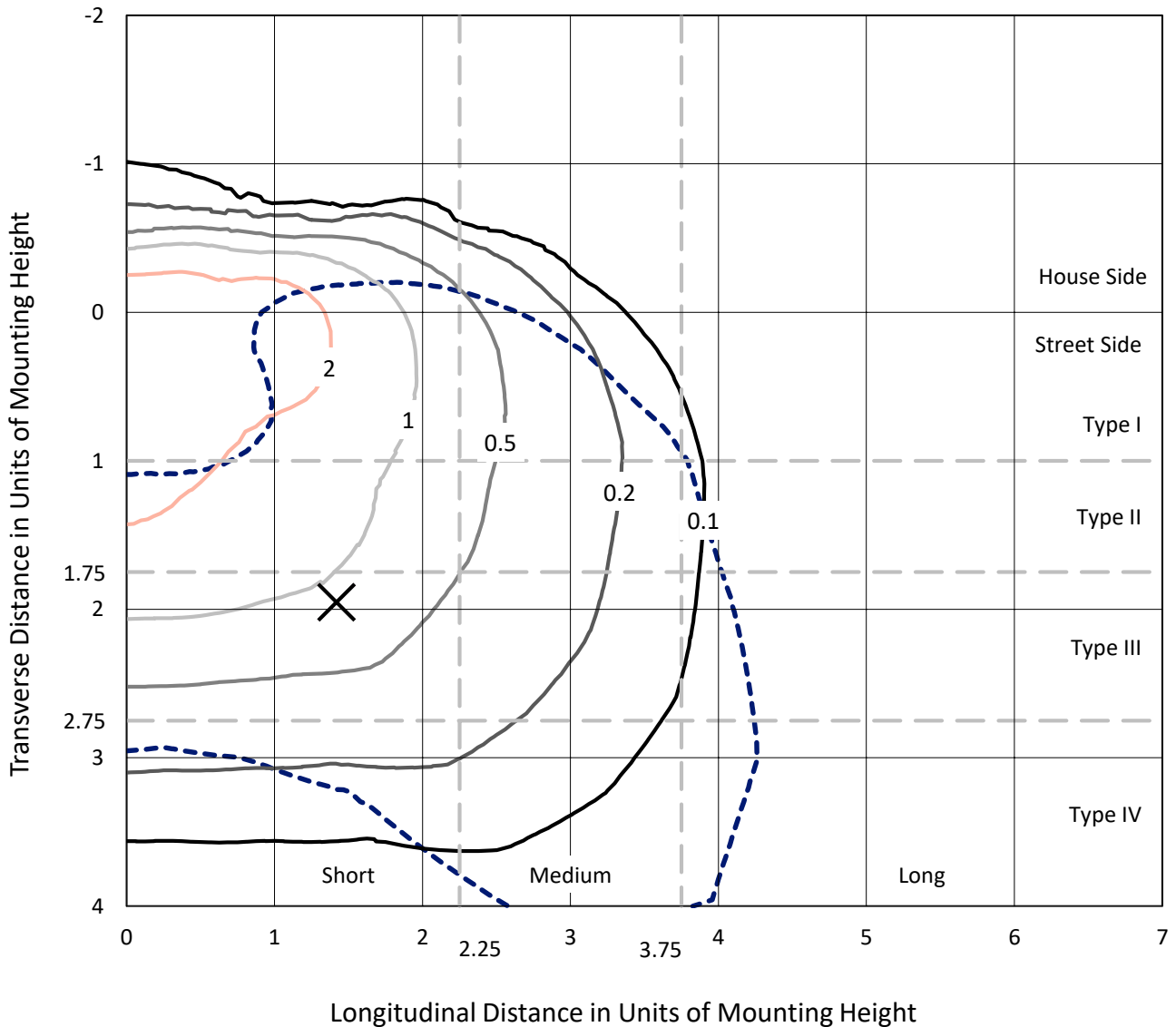
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

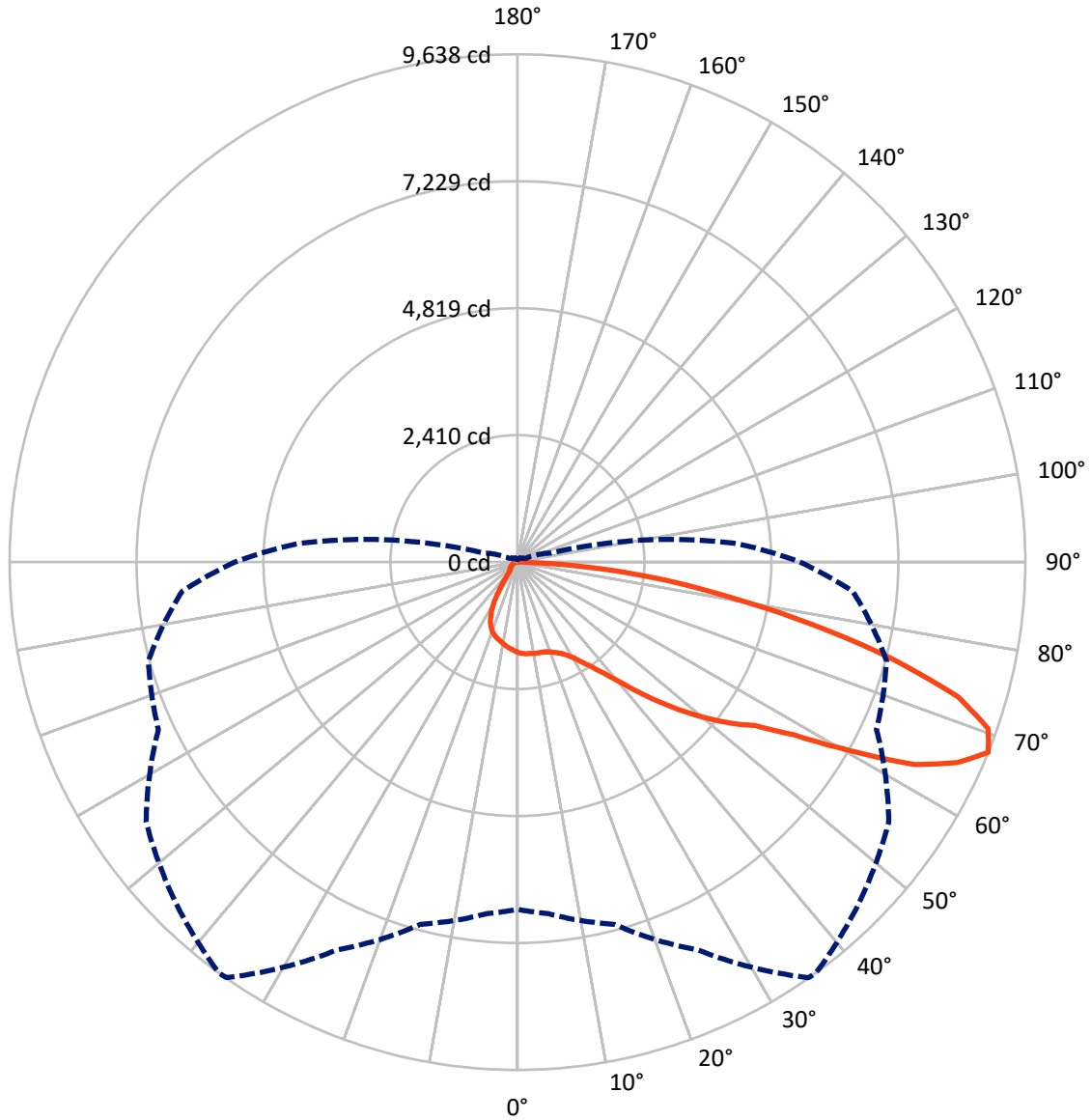
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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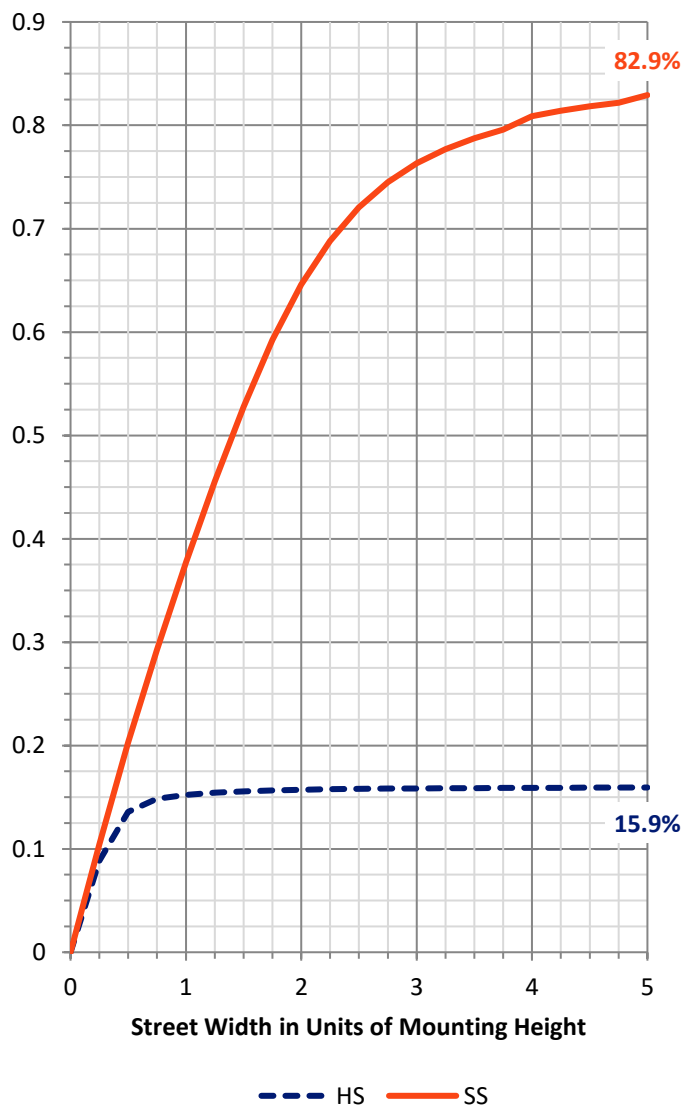
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.7	0.0	2506.7
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	13037.2	0.0	13037.2
	% Fixture	83.9	0.0	83.9
Total	Lumens	15544.0	0.0	15544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.0
10°-20°	480.3	3.1
20°-30°	794.3	5.1
30°-40°	1260.0	8.1
40°-50°	2174.8	14.0
50°-60°	3223.6	20.7
60°-70°	4167.7	26.8
70°-80°	2813.4	18.1
80°-90°	467.6	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°	15544.0	100.0
0°-180°	15544.0	100.0

Coefficient of Utilization



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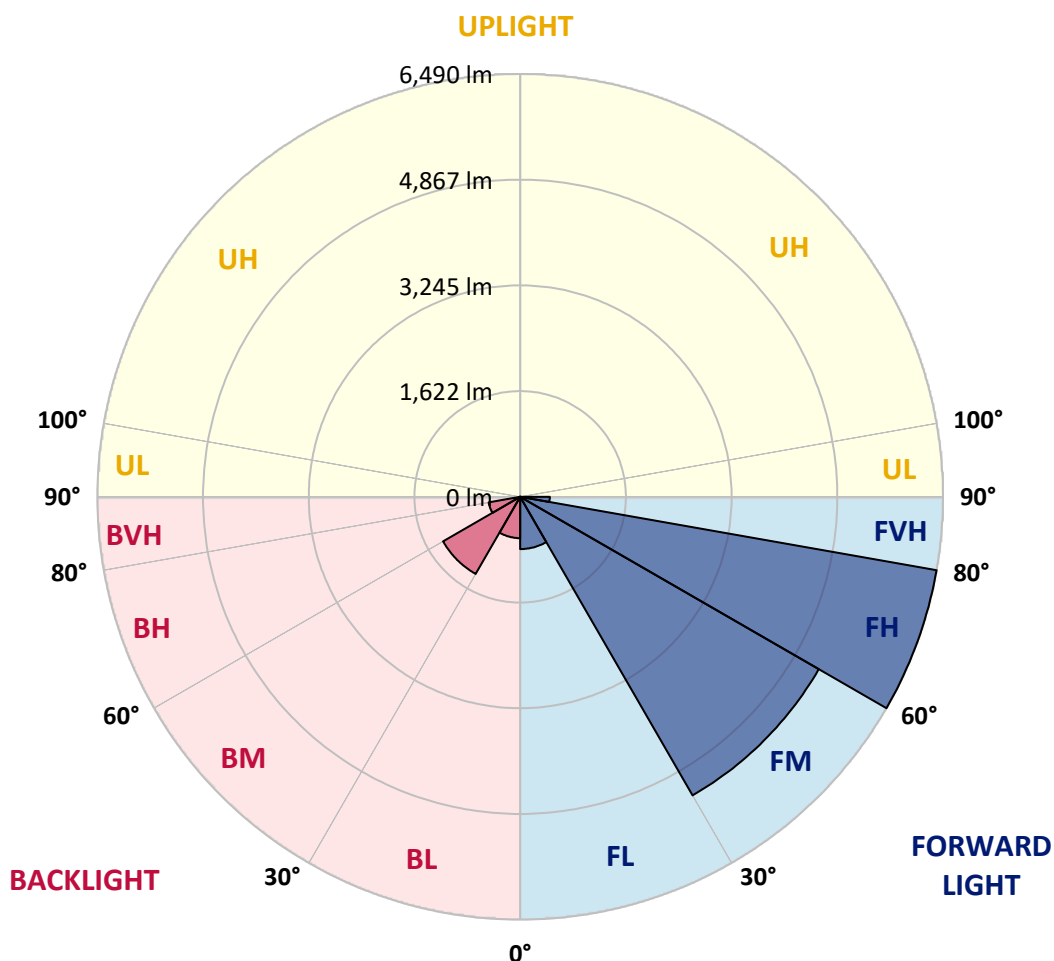
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.4	5.2			
FM (30°-60°)	5290.9	34.0			
FH (60°-80°)	6489.6	41.8			G3/7500
FVH (80°-90°)	454.4	2.9			G3/500
BL (0°-30°)	634.4	4.1	B2/1000		
BM (30°-60°)	1367.6	8.8	B2/2500		
BH (60°-80°)	491.5	3.2	B1/500		G1/500
BVH (80°-90°)	13.3	0.1			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°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1725.3	1742.1	1740.2	1738.4	1738.4	1736.5	1725.3	1714.2	1719.8	1717.9	1716.0
5°	1732.8	1749.5	1747.6	1745.8	1745.8	1747.6	1730.9	1717.9	1721.6	1725.3	1723.5
7.5°	1736.5	1751.4	1747.6	1745.8	1743.9	1749.5	1736.5	1738.4	1742.1	1742.1	1742.1
10°	1742.1	1753.2	1753.2	1755.1	1756.9	1762.5	1756.9	1762.5	1777.4	1773.7	1783.0
12.5°	1727.2	1740.2	1745.8	1755.1	1764.4	1768.1	1773.7	1788.6	1807.1	1816.4	1825.7
15°	1721.6	1734.6	1743.9	1755.1	1770.0	1773.7	1788.6	1814.6	1836.9	1855.5	1875.9
17.5°	1740.2	1755.1	1768.1	1775.5	1783.0	1788.6	1803.4	1836.9	1875.9	1909.4	1939.1
20°	1775.5	1790.4	1805.3	1812.7	1818.3	1822.0	1833.2	1864.8	1915.0	1967.0	2009.8
22.5°	1816.4	1831.3	1848.0	1853.6	1866.6	1866.6	1868.5	1900.1	1961.5	2032.1	2084.2
25°	1861.1	1870.4	1885.2	1894.5	1913.1	1916.8	1922.4	1950.3	2026.5	2106.5	2188.3
27.5°	1913.1	1931.7	1946.6	1957.7	1994.9	1996.8	1993.1	2028.4	2102.8	2201.3	2316.6
30°	2007.9	2028.4	2043.3	2061.9	2110.2	2108.3	2132.5	2169.7	2212.4	2320.3	2474.6
32.5°	2158.5	2160.4	2167.8	2192.0	2260.8	2268.2	2314.7	2381.6	2467.2	2535.9	2699.6
35°	2433.7	2424.4	2402.1	2398.4	2444.8	2448.6	2539.7	2681.0	2866.9	3095.6	3348.4
37.5°	2755.3	2779.5	2753.5	2673.5	2681.0	2682.8	2790.7	2971.0	3316.8	3889.4	4129.3
40°	3320.5	3333.5	3171.8	3045.4	3000.7	2980.3	3036.1	3309.4	3751.9	4497.4	4666.6
42.5°	3818.8	3818.8	3668.2	3473.0	3359.6	3374.4	3357.7	3629.2	4198.1	5025.4	5086.8
45°	4317.1	4300.3	4162.7	3999.1	3800.2	3787.2	3744.4	3952.7	4609.0	5404.7	5406.6
47.5°	4781.9	4820.9	4614.5	4434.2	4231.5	4222.2	4146.0	4307.8	5003.1	5737.5	5687.3
50°	5270.8	5324.7	5066.3	4863.7	4644.3	4657.3	4594.1	4707.5	5395.4	6048.0	5956.9
52.5°	5966.2	5865.8	5557.1	5276.4	5049.6	5086.8	5021.7	5088.6	5802.6	6295.3	6105.6
55°	6711.7	6533.2	6276.7	5806.3	5477.2	5473.5	5425.1	5505.1	6213.4	6577.9	6274.8
57.5°	7111.4	7165.4	7105.9	6724.7	6193.0	6183.7	5893.7	5903.0	6590.9	6819.5	6510.9
60°	7566.9	7633.9	7764.0	7526.0	7260.2	7267.6	6544.4	6328.7	6988.7	7012.9	6529.5
62.5°	7808.6	7816.1	8115.4	8199.1	8414.7	8463.1	7914.6	6849.3	7252.7	7161.6	6561.1
65°	7381.0	7394.0	7970.4	8392.4	9111.9	9177.0	8940.9	7857.0	7449.8	7239.7	6531.4
67.5°	6590.9	6696.8	7117.0	8124.7	9628.8	9638.1	9162.1	8602.5	7518.6	7250.9	6388.2
70°	5523.7	5486.5	6018.2	7228.6	9548.9	9480.1	9065.5	8688.0	7468.4	7098.4	5735.6
72.5°	4095.8	4040.0	4588.5	5811.9	8613.7	8743.8	8632.3	8187.9	7278.8	6529.5	4655.4
75°	2803.7	2868.7	3361.4	4382.1	7154.2	7351.3	7844.0	7801.2	6475.6	5412.1	3186.7
77.5°	1918.7	1946.6	2368.6	3261.0	5670.6	5746.8	6563.0	6302.7	4761.4	3326.1	1063.5
80°	1249.4	1240.1	1619.4	2322.1	4157.2	4147.9	4687.0	3988.0	2565.7	1134.1	146.9
82.5°	697.2	738.1	970.5	1526.4	2809.3	2839.0	2926.4	2180.8	987.2	132.0	93.0
85°	392.3	409.0	557.8	864.5	1472.5	1546.9	1305.2	801.3	176.6	72.5	53.9
87.5°	93.0	89.2	178.5	330.9	245.4	265.9	126.4	37.2	18.6	13.0	13.0
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°	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1716.0	1712.3	1708.6	1701.2	1695.6	1678.9	1680.7	1691.9	1680.7	1699.3	1688.2
5°	1719.8	1714.2	1704.9	1682.6	1665.8	1652.8	1649.1	1647.3	1632.4	1649.1	1641.7
7.5°	1734.6	1729.1	1708.6	1684.4	1660.3	1621.2	1615.6	1608.2	1580.3	1591.5	1582.2
10°	1770.0	1762.5	1727.2	1693.7	1656.5	1604.5	1574.7	1552.4	1520.8	1524.5	1515.2
12.5°	1814.6	1807.1	1766.2	1710.5	1658.4	1585.9	1533.8	1491.1	1444.6	1444.6	1435.3
15°	1866.6	1859.2	1812.7	1747.6	1665.8	1571.0	1492.9	1424.1	1349.8	1340.5	1329.3
17.5°	1937.3	1926.1	1872.2	1788.6	1686.3	1558.0	1452.0	1349.8	1236.4	1201.0	1182.5
20°	2009.8	1996.8	1950.3	1846.2	1714.2	1545.0	1392.5	1253.1	1106.2	1033.7	1020.7
22.5°	2102.8	2099.0	2041.4	1896.4	1723.5	1517.1	1318.2	1145.3	948.2	847.8	827.3
25°	2212.4	2206.9	2117.6	1935.4	1712.3	1461.3	1212.2	991.0	769.7	669.3	647.0
27.5°	2342.6	2327.7	2182.7	1944.7	1680.7	1373.9	1076.5	792.0	568.9	483.4	466.7
30°	2480.2	2457.9	2251.5	1946.6	1617.5	1266.1	898.0	581.9	403.4	342.1	342.1
32.5°	2710.7	2634.5	2318.4	1920.6	1526.4	1111.8	684.2	392.3	282.6	258.4	258.4
35°	3205.3	3023.1	2424.4	1887.1	1407.4	920.3	464.8	265.9	236.1	236.1	234.3
37.5°	3947.1	3608.7	2604.7	1831.3	1245.7	684.2	306.8	219.4	225.0	225.0	225.0
40°	4421.2	4066.1	2850.2	1743.9	1059.7	464.8	219.4	208.2	211.9	215.7	215.7
42.5°	4863.7	4463.9	3095.6	1623.1	855.2	297.5	204.5	195.2	197.1	197.1	198.9
45°	5144.4	4759.6	3277.8	1494.8	630.3	211.9	200.8	184.1	178.5	178.5	182.2
47.5°	5404.7	4952.9	3357.7	1325.6	407.2	198.9	191.5	171.0	163.6	161.8	161.8
50°	5665.0	5151.8	3402.3	1124.8	254.7	191.5	176.6	156.2	148.7	146.9	146.9
52.5°	5780.3	5215.1	3301.9	898.0	189.6	184.1	165.5	143.2	132.0	132.0	132.0
55°	5901.1	5332.2	3132.8	643.3	180.3	171.0	152.5	128.3	119.0	122.7	122.7
57.5°	6035.0	5248.5	2952.4	418.3	178.5	154.3	135.7	115.3	107.8	111.6	113.4
60°	5994.1	5269.0	2694.0	280.7	171.0	141.3	122.7	102.3	96.7	96.7	96.7
62.5°	5994.1	5110.9	2270.1	213.8	156.2	130.1	113.4	94.8	85.5	81.8	78.1
65°	5836.0	4737.2	1658.4	185.9	139.4	120.8	102.3	83.7	72.5	66.9	65.1
67.5°	5358.2	4118.1	667.5	169.2	128.3	111.6	94.8	76.2	63.2	55.8	53.9
70°	4555.0	3039.8	191.5	150.6	130.1	104.1	89.2	66.9	55.8	46.5	44.6
72.5°	3376.3	1606.3	156.2	119.0	115.3	89.2	83.7	63.2	48.3	39.0	37.2
75°	1704.9	219.4	133.9	85.5	89.2	93.0	79.9	55.8	44.6	31.6	29.7
77.5°	176.6	130.1	117.1	57.6	63.2	65.1	68.8	52.1	39.0	26.0	24.2
80°	109.7	98.5	115.3	50.2	37.2	44.6	46.5	40.9	31.6	20.5	20.5
82.5°	78.1	83.7	85.5	31.6	27.9	26.0	24.2	24.2	27.9	18.6	18.6
85°	53.9	55.8	35.3	20.5	18.6	16.7	14.9	14.9	13.0	14.9	13.0
87.5°	13.0	11.2	11.2	11.2	9.3	9.3	7.4	7.4	7.4	7.4	9.3
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)