

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: P509327

Luminaire Tested: **VERD-CA2-70-750-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-750-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 980mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10722 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

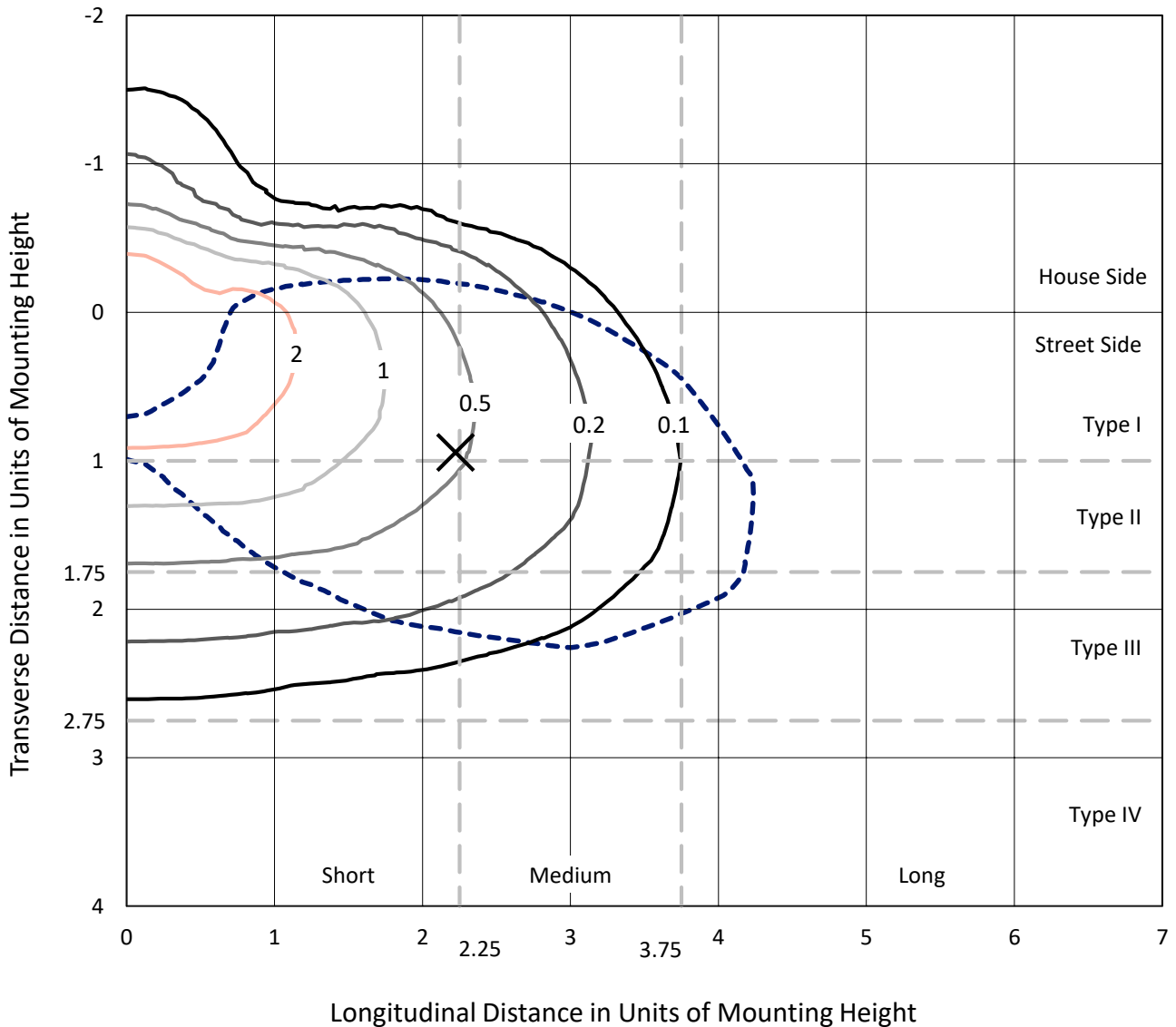
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

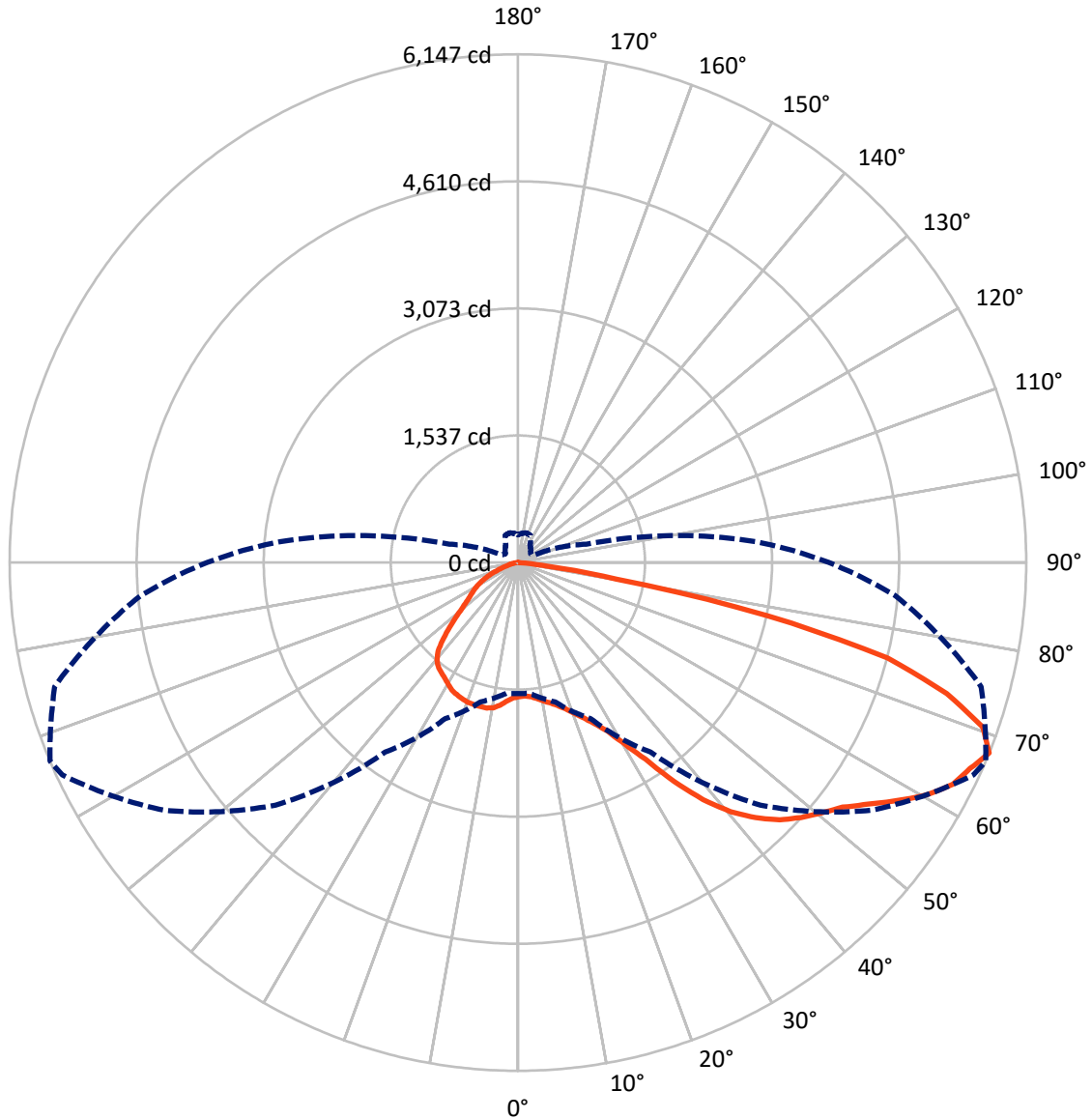
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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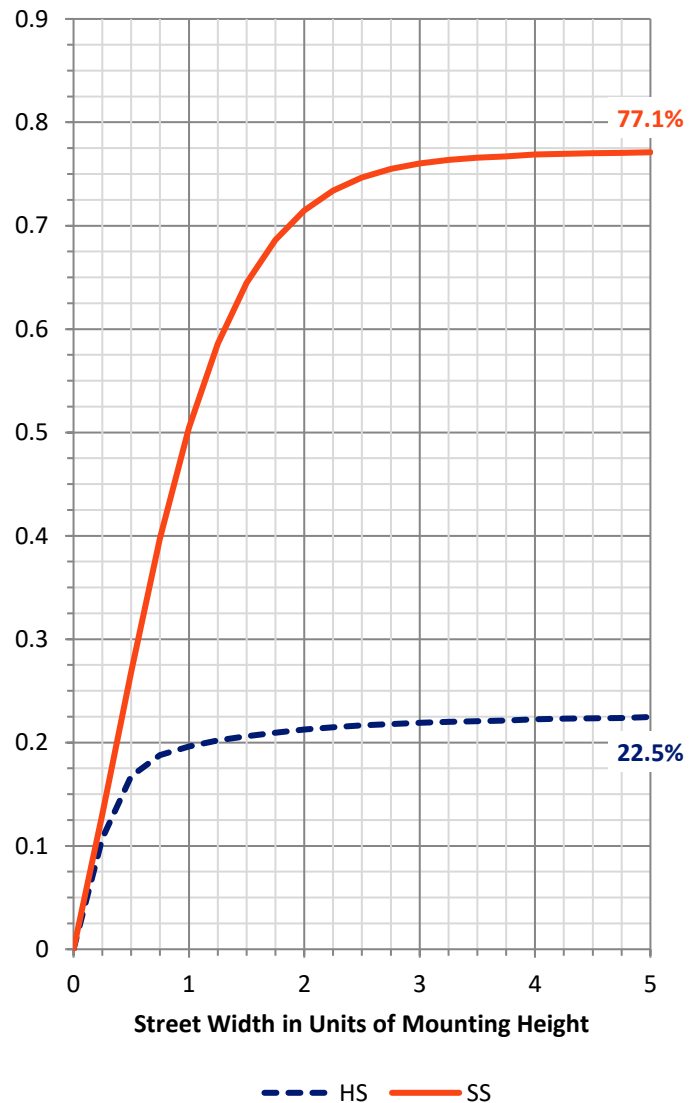
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2451.7	0.0	2451.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8270.4	0.0	8270.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	10722.0	0.0	10722.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.5
10°-20°	525.7	4.9
20°-30°	908.4	8.5
30°-40°	1378.9	12.9
40°-50°	1873.7	17.5
50°-60°	2228.3	20.8
60°-70°	2292.7	21.4
70°-80°	1250.7	11.7
80°-90°	99.4	0.9
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°	10722.0	100.0
0°-180°	10722.0	100.0



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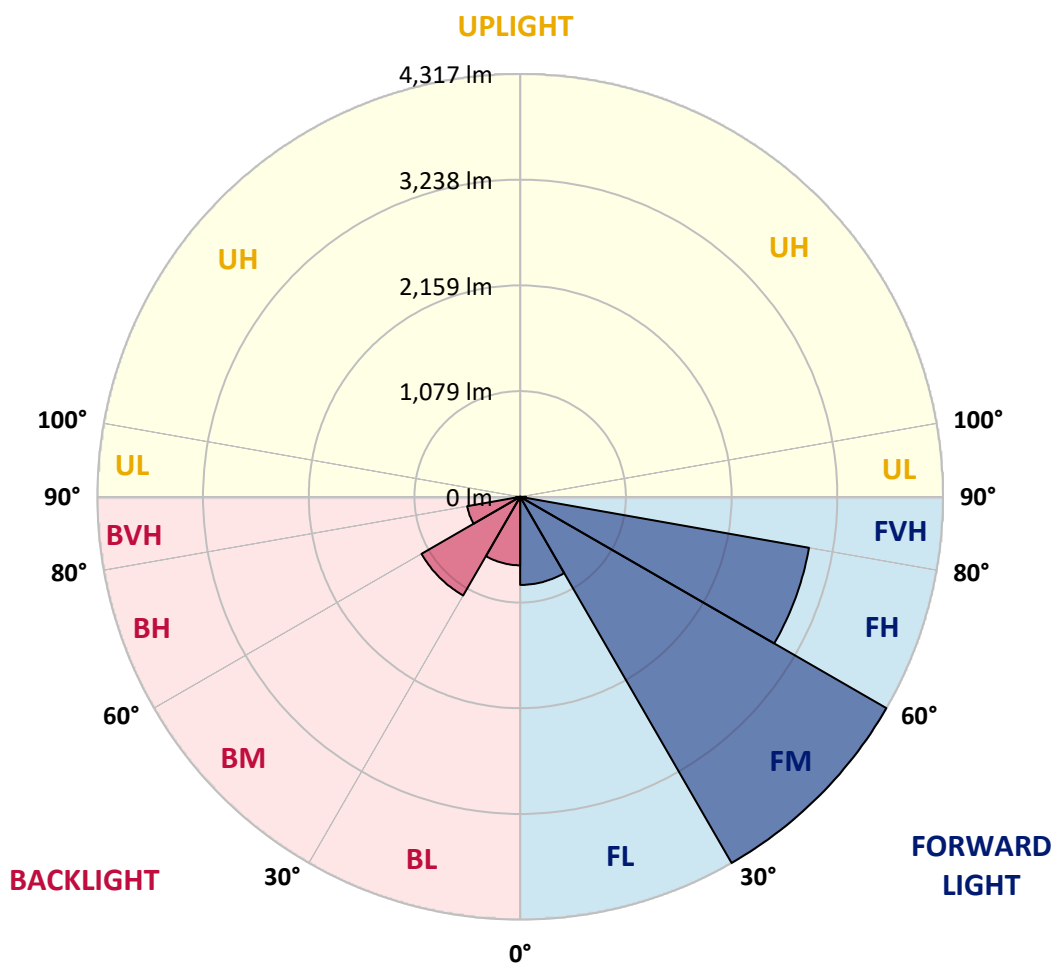
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.3	8.4			
FM (30°-60°)	4317.1	40.3			
FH (60°-80°)	2994.4	27.9			G2/5000
FVH (80°-90°)	59.5	0.6			G1/100
BL (0°-30°)	699.1	6.5	B2/1000		
BM (30°-60°)	1163.8	10.9	B2/2500		
BH (60°-80°)	548.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	39.9	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1631.4	1624.4	1615.1	1618.6	1611.6	1623.2	1618.6	1616.3	1616.3	1617.4	1623.2
5°	1668.5	1661.5	1654.6	1653.4	1639.5	1644.1	1637.2	1630.2	1630.2	1629.0	1631.4
7.5°	1733.5	1724.2	1716.1	1715.0	1697.5	1695.2	1674.3	1660.4	1660.4	1659.2	1662.7
10°	1819.5	1816.0	1799.7	1789.3	1768.4	1754.4	1728.9	1706.8	1702.2	1695.2	1704.5
12.5°	1901.9	1900.7	1885.6	1874.0	1845.0	1820.6	1778.8	1748.6	1742.8	1734.7	1741.7
15°	2005.2	1994.8	1978.5	1971.6	1929.8	1892.6	1845.0	1799.7	1793.9	1784.6	1790.4
17.5°	2119.0	2113.2	2087.7	2079.5	2027.3	1984.3	1925.1	1867.1	1857.8	1845.0	1843.8
20°	2256.0	2245.6	2225.8	2202.6	2151.5	2090.0	2021.5	1955.3	1947.2	1936.7	1914.7
22.5°	2403.5	2391.9	2372.1	2347.8	2282.7	2217.7	2131.8	2048.2	2043.5	2036.6	1995.9
25°	2544.0	2524.2	2526.6	2503.3	2445.3	2362.8	2261.8	2162.0	2159.7	2158.5	2093.5
27.5°	2693.8	2672.9	2665.9	2657.8	2603.2	2525.4	2411.6	2316.4	2308.3	2309.4	2210.7
30°	2834.3	2825.0	2819.2	2813.4	2786.7	2717.0	2607.8	2523.1	2548.6	2546.3	2410.5
32.5°	2943.4	2936.4	2960.8	2988.7	2981.7	2923.7	2848.2	2809.9	2835.4	2917.9	2799.4
35°	3039.8	3036.3	3082.7	3141.9	3183.7	3141.9	3133.8	3193.0	3252.3	3389.3	3320.8
37.5°	3144.3	3139.6	3179.1	3280.1	3353.3	3366.0	3427.6	3579.7	3636.6	3773.6	3629.6
40°	3143.1	3148.9	3244.1	3373.0	3506.5	3614.5	3741.1	3888.5	3961.7	4026.7	3803.8
42.5°	3092.0	3095.5	3215.1	3460.1	3654.0	3866.5	3979.1	4168.4	4218.3	4231.1	4009.3
45°	3039.8	3042.1	3172.1	3447.3	3777.1	4102.2	4227.6	4400.6	4438.9	4394.8	4148.6
47.5°	2964.3	2979.4	3119.9	3434.5	3882.7	4319.3	4420.3	4592.2	4607.3	4551.5	4264.7
50°	2874.9	2883.0	3044.4	3392.7	3952.4	4454.0	4573.6	4729.2	4758.2	4695.5	4408.7
52.5°	2765.8	2772.7	2948.0	3337.0	3990.7	4557.3	4690.9	4876.6	4916.1	4888.2	4535.3
55°	2640.4	2643.8	2822.6	3246.4	3980.3	4602.6	4793.0	5085.6	5151.8	5083.3	4640.9
57.5°	2483.6	2496.4	2699.6	3110.6	3901.3	4659.5	4977.7	5343.4	5428.2	5281.9	4719.9
60°	2322.2	2335.0	2519.6	2952.7	3768.9	4685.1	5168.1	5620.9	5695.2	5470.0	4768.7
62.5°	2141.1	2158.5	2311.8	2714.7	3532.1	4651.4	5308.6	5863.6	5905.4	5582.6	4755.9
65°	1877.5	1886.8	2054.0	2427.9	3223.2	4476.1	5302.8	5993.6	6007.6	5706.8	4700.2
67.5°	1584.9	1586.1	1744.0	2081.9	2798.3	4148.6	5221.5	6078.4	6146.9	5798.6	4578.2
70°	1205.2	1221.5	1344.6	1595.4	2287.4	3589.0	4953.3	5994.8	5962.3	5547.8	4228.7
72.5°	860.4	851.1	913.8	1083.3	1601.2	2769.2	4270.5	5416.6	5423.5	5053.1	3679.5
75°	457.5	459.8	513.2	656.0	817.4	1802.0	3416.0	4575.9	4617.7	4333.2	2879.5
77.5°	102.2	116.1	176.5	250.8	355.3	577.1	1853.1	3001.5	3080.4	2851.7	1577.9
80°	79.0	80.1	116.1	142.8	156.7	276.3	588.7	1089.1	1208.7	1141.4	593.3
82.5°	52.2	53.4	76.6	79.0	75.5	126.6	267.1	326.3	358.8	313.5	220.6
85°	27.9	29.0	34.8	38.3	30.2	37.2	34.8	27.9	29.0	25.5	25.5
87.5°	5.8	3.5	4.6	3.5	3.5	2.3	3.5	3.5	3.5	3.5	3.5
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°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1623.2	1625.5	1631.4	1640.6	1645.3	1655.7	1662.7	1680.1	1704.5	1696.4	1685.9
5°	1632.5	1639.5	1659.2	1683.6	1702.2	1730.0	1744.0	1777.7	1805.5	1803.2	1784.6
7.5°	1667.3	1682.4	1706.8	1742.8	1774.2	1802.0	1821.8	1857.8	1883.3	1872.9	1855.4
10°	1711.5	1726.6	1753.3	1785.8	1809.0	1839.2	1852.0	1881.0	1897.2	1884.5	1869.4
12.5°	1752.1	1760.2	1778.8	1803.2	1816.0	1835.7	1841.5	1862.4	1877.5	1871.7	1853.1
15°	1791.6	1790.4	1793.9	1800.9	1805.5	1810.2	1811.3	1826.4	1836.9	1825.3	1812.5
17.5°	1835.7	1824.1	1809.0	1797.4	1780.0	1771.8	1756.8	1763.7	1762.6	1753.3	1742.8
20°	1891.4	1870.5	1824.1	1788.1	1742.8	1706.8	1675.5	1669.7	1669.7	1644.1	1643.0
22.5°	1957.6	1922.8	1845.0	1766.0	1692.9	1636.0	1577.9	1544.3	1519.9	1501.3	1493.2
25°	2043.5	1979.7	1863.6	1735.9	1627.9	1524.5	1437.4	1391.0	1344.6	1314.4	1309.7
27.5°	2135.3	2065.6	1875.2	1709.1	1538.5	1396.8	1276.1	1180.8	1137.9	1118.1	1099.6
30°	2285.1	2162.0	1896.1	1652.3	1425.8	1240.1	1079.8	968.4	926.6	912.6	901.0
32.5°	2648.5	2411.6	1915.8	1594.2	1305.1	1067.1	855.7	761.7	725.7	739.6	744.3
35°	3103.6	2783.2	2009.9	1526.9	1179.7	870.8	658.3	595.6	598.0	618.9	625.8
37.5°	3412.5	3110.6	2201.5	1442.1	999.7	645.6	509.7	490.0	507.4	526.0	529.5
40°	3593.6	3260.4	2336.1	1337.6	787.2	483.0	383.2	369.2	406.4	448.2	473.7
42.5°	3786.4	3388.1	2405.8	1201.7	552.7	349.5	293.8	304.2	363.4	399.4	415.7
45°	3889.7	3488.0	2374.5	1007.8	376.2	271.7	263.6	292.6	351.8	384.3	389.0
47.5°	4001.2	3587.8	2299.0	805.8	288.0	257.8	258.9	293.8	354.1	389.0	389.0
50°	4097.5	3670.3	2164.3	631.6	274.0	248.5	260.1	299.6	357.6	387.8	386.6
52.5°	4209.0	3707.4	1972.7	510.9	260.1	240.3	261.2	304.2	351.8	369.2	366.9
55°	4243.8	3680.7	1881.0	427.3	249.6	235.7	265.9	311.2	349.5	353.0	347.2
57.5°	4243.8	3608.7	1776.5	364.6	240.3	235.7	268.2	310.0	362.3	384.3	382.0
60°	4225.3	3533.2	1616.3	326.3	227.6	233.4	269.4	327.4	430.8	455.2	454.0
62.5°	4166.0	3411.3	1418.9	288.0	214.8	234.5	265.9	351.8	492.3	481.9	456.3
65°	4025.5	3181.4	1150.7	253.1	200.9	234.5	261.2	386.6	437.7	418.0	408.7
67.5°	3760.8	2892.3	855.7	217.1	184.6	219.4	254.3	362.3	371.6	349.5	335.6
70°	3411.3	2449.9	549.2	183.5	167.2	206.7	249.6	340.2	358.8	332.1	314.7
72.5°	2842.4	1946.0	318.1	149.8	141.7	190.4	240.3	329.8	353.0	317.0	292.6
75°	2005.2	1228.4	209.0	110.3	113.8	162.6	222.9	308.9	330.9	286.8	252.0
77.5°	1021.8	461.0	148.6	81.3	76.6	124.2	192.7	284.5	326.3	289.1	247.3
80°	361.1	232.2	97.5	53.4	49.9	76.6	147.5	241.5	306.5	282.1	274.0
82.5°	154.4	116.1	53.4	33.7	30.2	38.3	83.6	190.4	269.4	255.4	308.9
85°	22.1	19.7	15.1	12.8	12.8	17.4	26.7	94.0	182.3	207.8	252.0
87.5°	3.5	3.5	3.5	2.3	2.3	2.3	1.2	13.9	60.4	90.6	125.4
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)