

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: P509184

Luminaire Tested: **VERD-CA2-120-750-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509184
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-CA2-120-750-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15829 lumens
Efficiency: N/A
Efficacy: 129.0 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

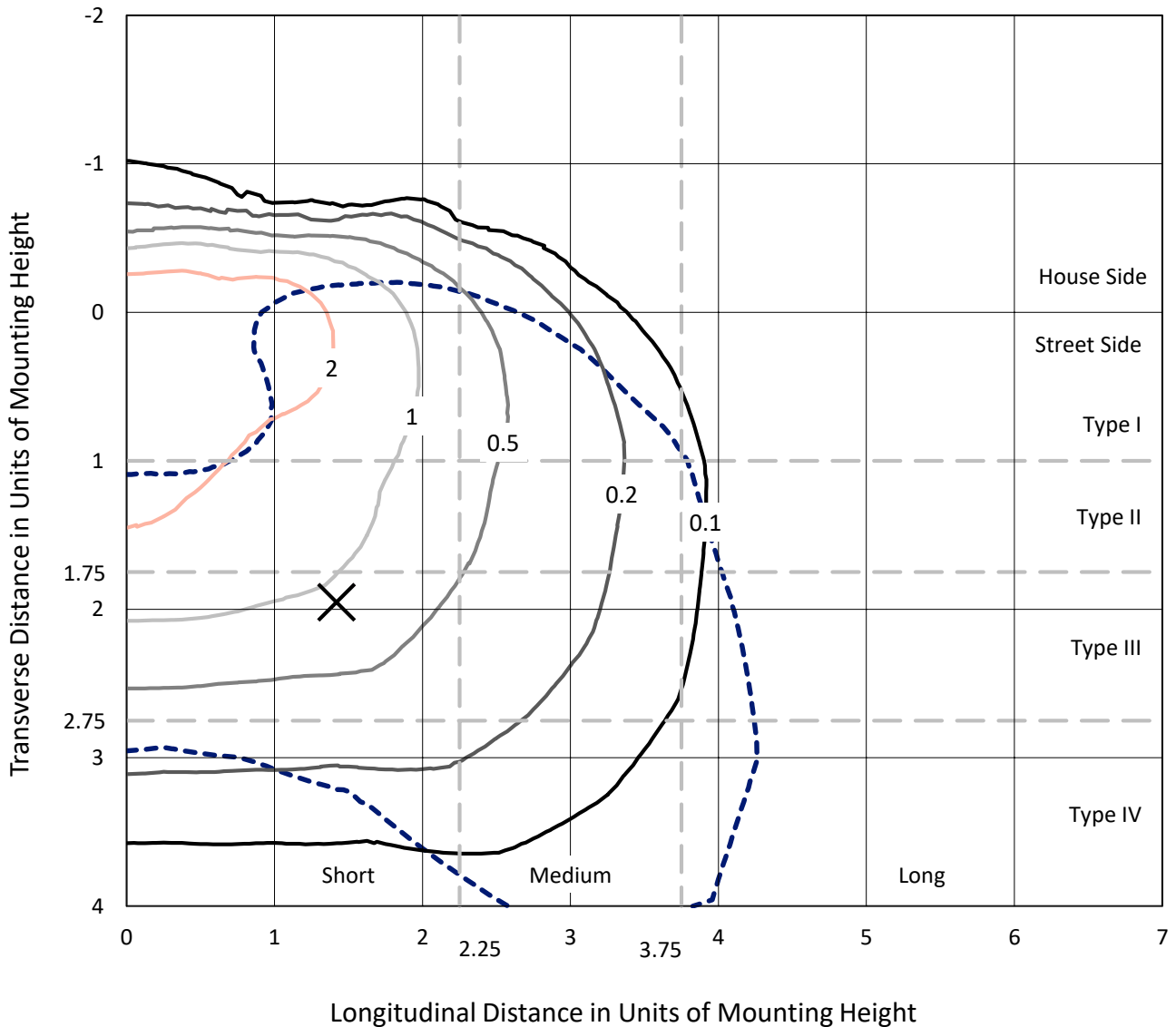
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

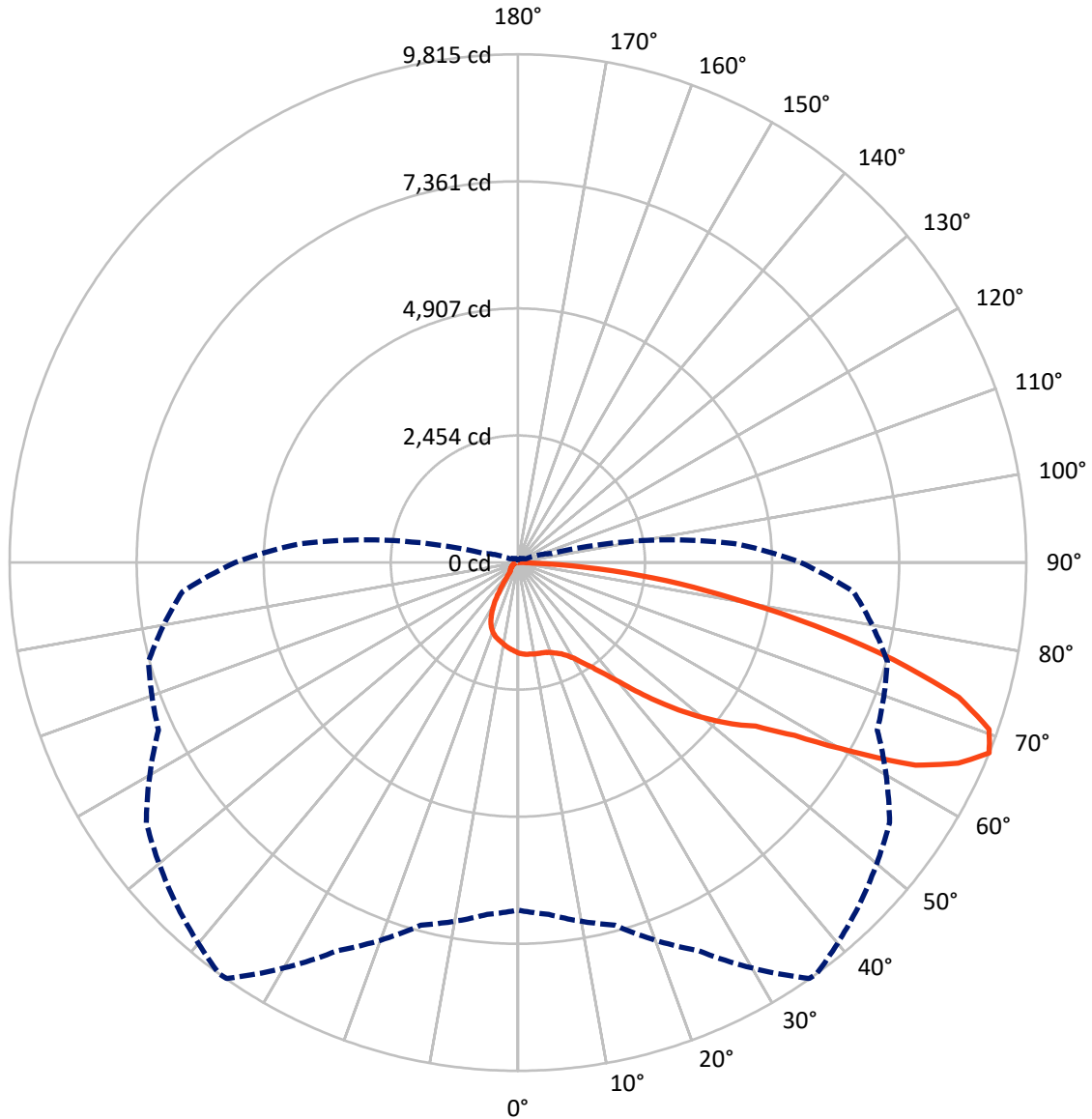
× Max cd
 - - - 1/2 Max cd



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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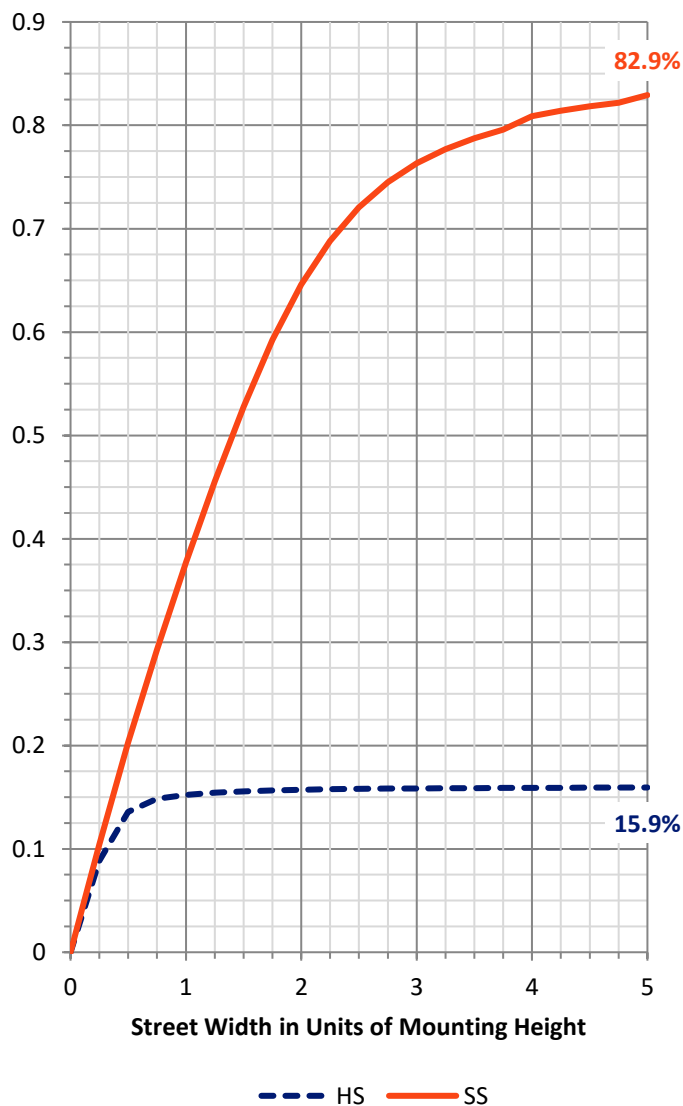
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2552.7	0.0	2552.7
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	13276.3	0.0	13276.3
	% Fixture	83.9	0.0	83.9
Total	Lumens	15829.0	0.0	15829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.0
10°-20°	489.1	3.1
20°-30°	808.9	5.1
30°-40°	1283.1	8.1
40°-50°	2214.7	14.0
50°-60°	3282.7	20.7
60°-70°	4244.2	26.8
70°-80°	2865.0	18.1
80°-90°	476.2	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°	15829.0	100.0
0°-180°	15829.0	100.0

Coefficient of Utilization



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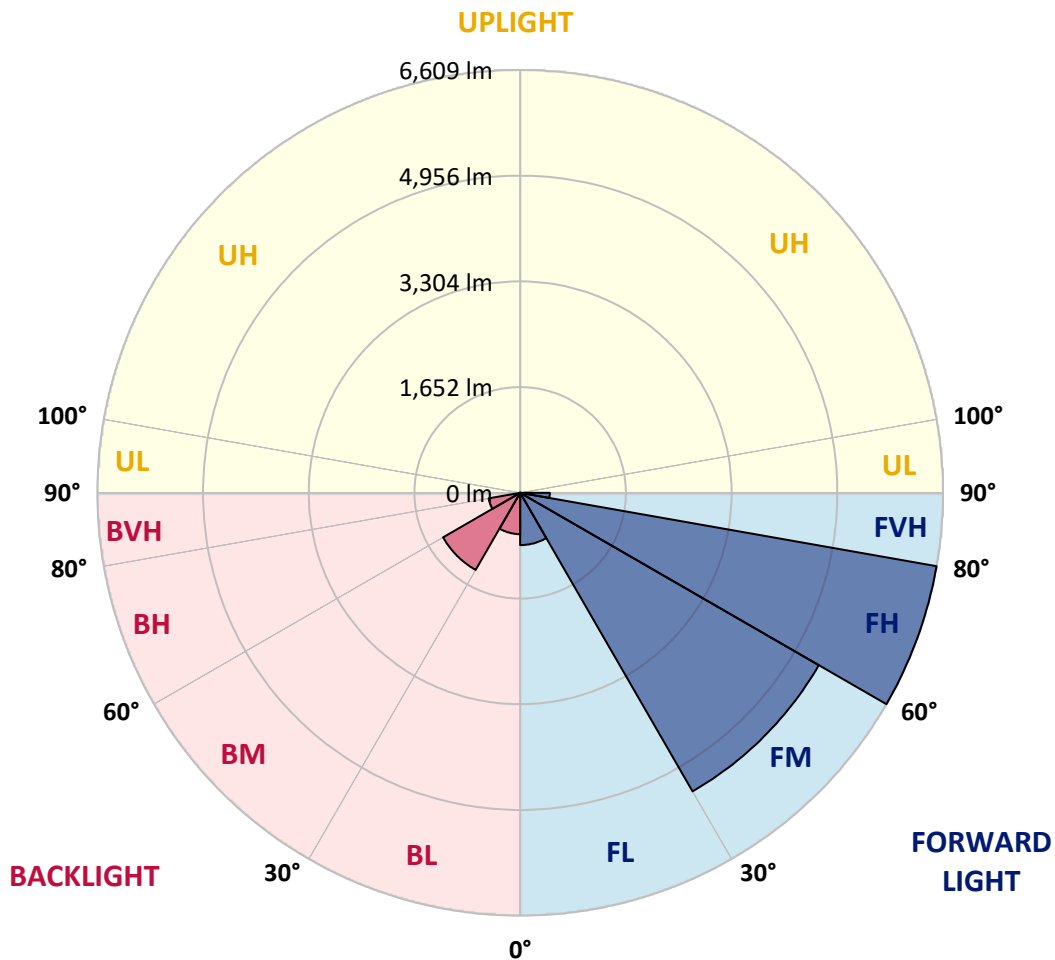
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.1	5.2			
FM	(30°-60°)	5387.9	34.0			
FH	(60°-80°)	6608.6	41.8			G3/7500
FVH	(80°-90°)	462.7	2.9			G3/500
BL	(0°-30°)	646.0	4.1	B2/1000		
BM	(30°-60°)	1392.7	8.8	B2/2500		
BH	(60°-80°)	500.5	3.2	B2/1000		G2/1000
BVH	(80°-90°)	13.5	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°	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1757.0	1774.0	1772.1	1770.2	1770.2	1768.3	1757.0	1745.6	1751.3	1749.4	1747.5
5°	1764.5	1781.6	1779.7	1777.8	1777.8	1779.7	1762.7	1749.4	1753.2	1757.0	1755.1
7.5°	1768.3	1783.5	1779.7	1777.8	1775.9	1781.6	1768.3	1770.2	1774.0	1774.0	1774.0
10°	1774.0	1785.4	1785.4	1787.3	1789.2	1794.8	1789.2	1794.8	1810.0	1806.2	1815.7
12.5°	1758.9	1772.1	1777.8	1787.3	1796.7	1800.5	1806.2	1821.3	1840.3	1849.7	1859.2
15°	1753.2	1766.4	1775.9	1787.3	1802.4	1806.2	1821.3	1847.8	1870.6	1889.5	1910.3
17.5°	1772.1	1787.3	1800.5	1808.1	1815.7	1821.3	1836.5	1870.6	1910.3	1944.4	1974.7
20°	1808.1	1823.2	1838.4	1846.0	1851.6	1855.4	1866.8	1899.0	1950.1	2003.1	2046.6
22.5°	1849.7	1864.9	1881.9	1887.6	1900.9	1900.9	1902.8	1934.9	1997.4	2069.4	2122.4
25°	1895.2	1904.6	1919.8	1929.3	1948.2	1952.0	1957.7	1986.1	2063.7	2145.1	2228.4
27.5°	1948.2	1967.1	1982.3	1993.6	2031.5	2033.4	2029.6	2065.6	2141.3	2241.7	2359.0
30°	2044.8	2065.6	2080.7	2099.7	2148.9	2147.0	2171.6	2209.5	2253.0	2362.8	2520.0
32.5°	2198.1	2200.0	2207.6	2232.2	2302.2	2309.8	2357.1	2425.3	2512.4	2582.4	2749.1
35°	2478.3	2468.8	2446.1	2442.3	2489.7	2493.5	2586.2	2730.1	2919.5	3152.3	3409.8
37.5°	2805.9	2830.5	2804.0	2722.5	2730.1	2732.0	2841.8	3025.5	3377.6	3960.8	4205.0
40°	3381.4	3394.7	3230.0	3101.2	3055.8	3034.9	3091.7	3370.1	3820.7	4579.9	4752.2
42.5°	3888.8	3888.8	3735.5	3536.7	3421.2	3436.3	3419.3	3695.7	4275.0	5117.6	5180.0
45°	4396.2	4379.2	4239.1	4072.5	3869.9	3856.6	3813.1	4025.1	4693.5	5503.8	5505.7
47.5°	4869.5	4909.3	4699.1	4515.5	4309.1	4299.7	4222.0	4386.7	5094.8	5842.7	5791.6
50°	5367.5	5422.4	5159.2	4952.8	4729.4	4742.7	4678.3	4793.8	5494.3	6158.9	6066.1
52.5°	6075.6	5973.3	5659.0	5373.2	5142.2	5180.0	5113.8	5181.9	5909.0	6410.7	6217.6
55°	6834.8	6653.0	6391.7	5912.7	5577.6	5573.8	5524.6	5606.0	6327.4	6698.5	6389.8
57.5°	7241.8	7296.7	7236.1	6848.0	6306.5	6297.1	6001.7	6011.2	6711.7	6944.6	6630.3
60°	7705.7	7773.8	7906.4	7664.0	7393.3	7400.9	6664.4	6444.8	7116.9	7141.5	6649.2
62.5°	7951.8	7959.4	8264.2	8349.4	8569.0	8618.2	8059.7	6974.9	7385.7	7292.9	6681.4
65°	7516.4	7529.6	8116.5	8546.3	9279.0	9345.3	9104.8	8001.0	7586.4	7372.5	6651.1
67.5°	6711.7	6819.6	7247.5	8273.7	9805.3	9814.8	9330.1	8760.2	7656.5	7383.8	6505.3
70°	5625.0	5587.1	6128.6	7361.1	9723.9	9653.9	9231.7	8847.3	7605.3	7228.6	5840.8
72.5°	4170.9	4114.1	4672.6	5918.4	8771.6	8904.1	8790.5	8338.0	7412.2	6649.2	4740.8
75°	2855.1	2921.3	3423.1	4462.5	7285.4	7486.1	7987.8	7944.2	6594.3	5511.4	3245.1
77.5°	1953.9	1982.3	2412.0	3320.8	5774.5	5852.2	6683.3	6418.2	4848.7	3387.1	1083.0
80°	1272.3	1262.8	1649.1	2364.7	4233.4	4223.9	4773.0	4061.1	2612.7	1154.9	149.6
82.5°	710.0	751.6	988.3	1554.4	2860.8	2891.1	2980.0	2220.8	1005.3	134.4	94.7
85°	399.5	416.5	568.0	880.4	1499.5	1575.2	1329.1	816.0	179.9	73.8	54.9
87.5°	94.7	90.9	181.8	337.0	249.9	270.7	128.7	37.9	18.9	13.3	13.3
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°	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1747.5	1743.7	1739.9	1732.4	1726.7	1709.6	1711.5	1722.9	1711.5	1730.5	1719.1
5°	1751.3	1745.6	1736.1	1713.4	1696.4	1683.1	1679.3	1677.5	1662.3	1679.3	1671.8
7.5°	1766.4	1760.8	1739.9	1715.3	1690.7	1650.9	1645.3	1637.7	1609.3	1620.7	1611.2
10°	1802.4	1794.8	1758.9	1724.8	1686.9	1633.9	1603.6	1580.9	1548.7	1552.5	1543.0
12.5°	1847.8	1840.3	1798.6	1741.8	1688.8	1615.0	1562.0	1518.4	1471.1	1471.1	1461.6
15°	1900.9	1893.3	1846.0	1779.7	1696.4	1599.8	1520.3	1450.3	1374.5	1365.1	1353.7
17.5°	1972.8	1961.4	1906.5	1821.3	1717.2	1586.6	1478.7	1374.5	1259.0	1223.1	1204.1
20°	2046.6	2033.4	1986.1	1880.0	1745.6	1573.3	1418.1	1276.1	1126.5	1052.7	1039.4
22.5°	2141.3	2137.5	2078.8	1931.2	1755.1	1544.9	1342.3	1166.3	965.6	863.3	842.5
25°	2253.0	2247.3	2156.5	1970.9	1743.7	1488.1	1234.4	1009.1	783.8	681.6	658.9
27.5°	2385.5	2370.4	2222.7	1980.4	1711.5	1399.1	1096.2	806.5	579.3	492.3	475.2
30°	2525.6	2502.9	2292.8	1982.3	1647.2	1289.3	914.5	592.6	410.8	348.4	348.4
32.5°	2760.4	2682.8	2360.9	1955.8	1554.4	1132.2	696.7	399.5	287.8	263.2	263.2
35°	3264.0	3078.5	2468.8	1921.7	1433.2	937.2	473.3	270.7	240.4	240.4	238.6
37.5°	4019.5	3674.9	2652.5	1864.9	1268.5	696.7	312.4	223.4	229.1	229.1	229.1
40°	4502.2	4140.6	2902.4	1775.9	1079.2	473.3	223.4	212.0	215.8	219.6	219.6
42.5°	4952.8	4545.8	3152.3	1652.8	870.9	302.9	208.3	198.8	200.7	200.7	202.6
45°	5238.7	4846.8	3337.9	1522.2	641.8	215.8	204.5	187.4	181.8	181.8	185.5
47.5°	5503.8	5043.7	3419.3	1349.9	414.6	202.6	195.0	174.2	166.6	164.7	164.7
50°	5768.9	5246.3	3464.7	1145.4	259.4	195.0	179.9	159.0	151.5	149.6	149.6
52.5°	5886.2	5310.7	3362.5	914.5	193.1	187.4	168.5	145.8	134.4	134.4	134.4
55°	6009.3	5430.0	3190.2	655.1	183.6	174.2	155.2	130.6	121.2	125.0	125.0
57.5°	6145.6	5344.8	3006.5	426.0	181.8	157.1	138.2	117.4	109.8	113.6	115.5
60°	6104.0	5365.6	2743.4	285.9	174.2	143.9	125.0	104.1	98.5	98.5	98.5
62.5°	6104.0	5204.7	2311.7	217.7	159.0	132.5	115.5	96.6	87.1	83.3	79.5
65°	5943.0	4824.1	1688.8	189.3	142.0	123.1	104.1	85.2	73.8	68.2	66.3
67.5°	5456.5	4193.6	679.7	172.3	130.6	113.6	96.6	77.6	64.4	56.8	54.9
70°	4638.6	3095.5	195.0	153.4	132.5	106.0	90.9	68.2	56.8	47.3	45.4
72.5°	3438.2	1635.8	159.0	121.2	117.4	90.9	85.2	64.4	49.2	39.8	37.9
75°	1736.1	223.4	136.3	87.1	90.9	94.7	81.4	56.8	45.4	32.2	30.3
77.5°	179.9	132.5	119.3	58.7	64.4	66.3	70.1	53.0	39.8	26.5	24.6
80°	111.7	100.3	117.4	51.1	37.9	45.4	47.3	41.7	32.2	20.8	20.8
82.5°	79.5	85.2	87.1	32.2	28.4	26.5	24.6	24.6	28.4	18.9	18.9
85°	54.9	56.8	36.0	20.8	18.9	17.0	15.1	15.1	13.3	15.1	13.3
87.5°	13.3	11.4	11.4	11.4	9.5	9.5	7.6	7.6	7.6	7.6	9.5
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)