

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: P553556

Luminaire Tested: **VERD-G-CA2-150-727-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-727-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16324 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

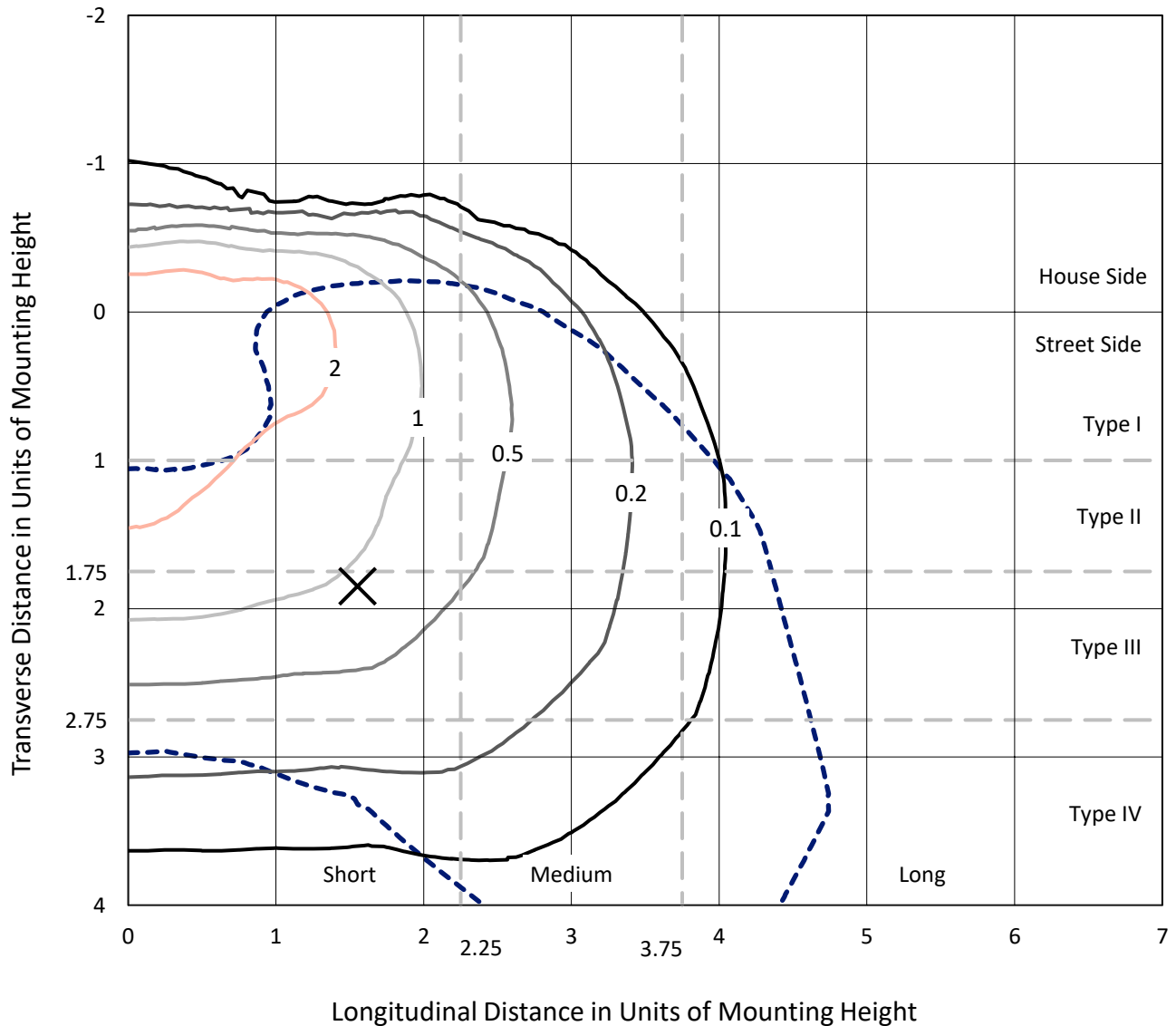
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

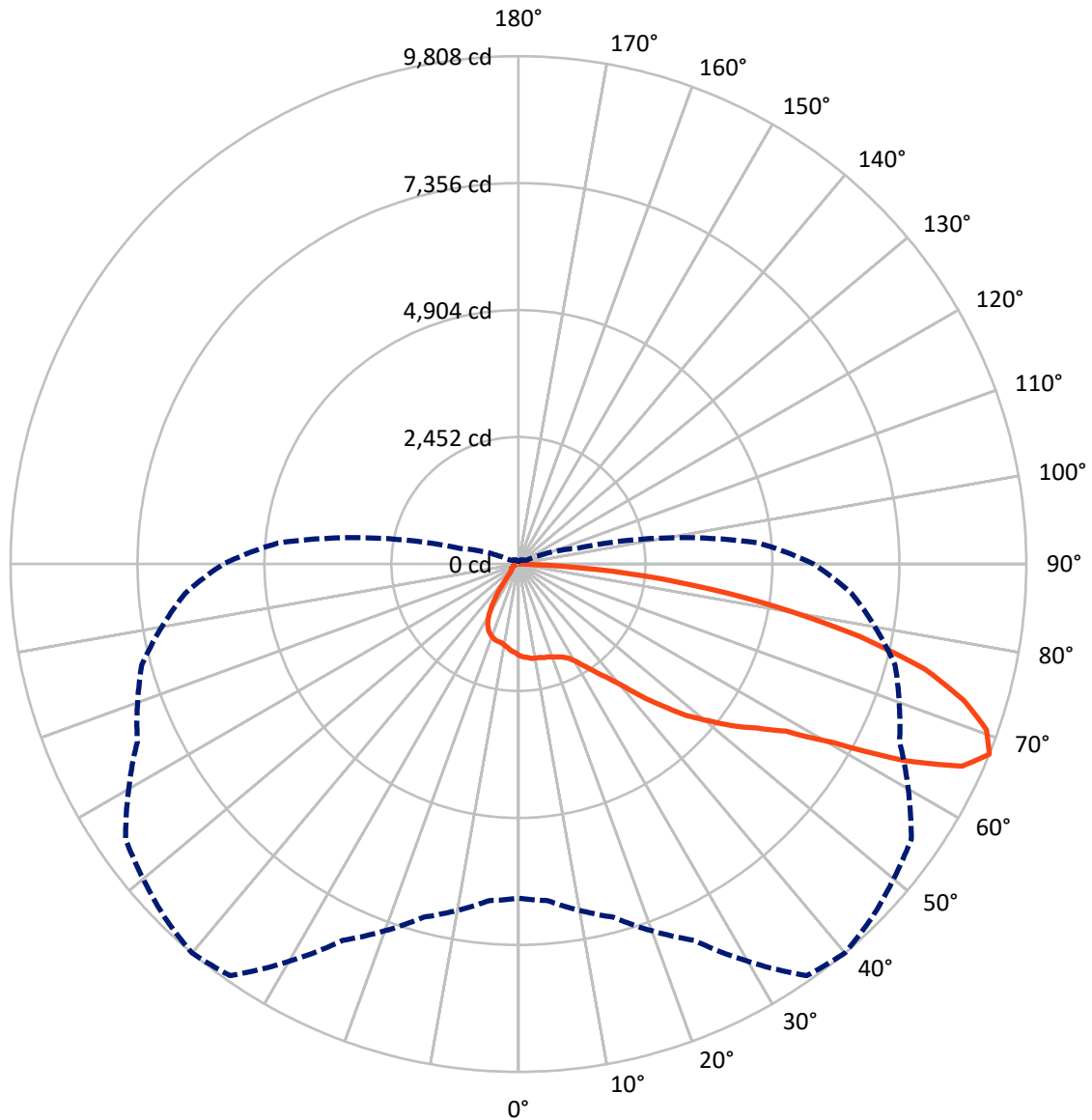
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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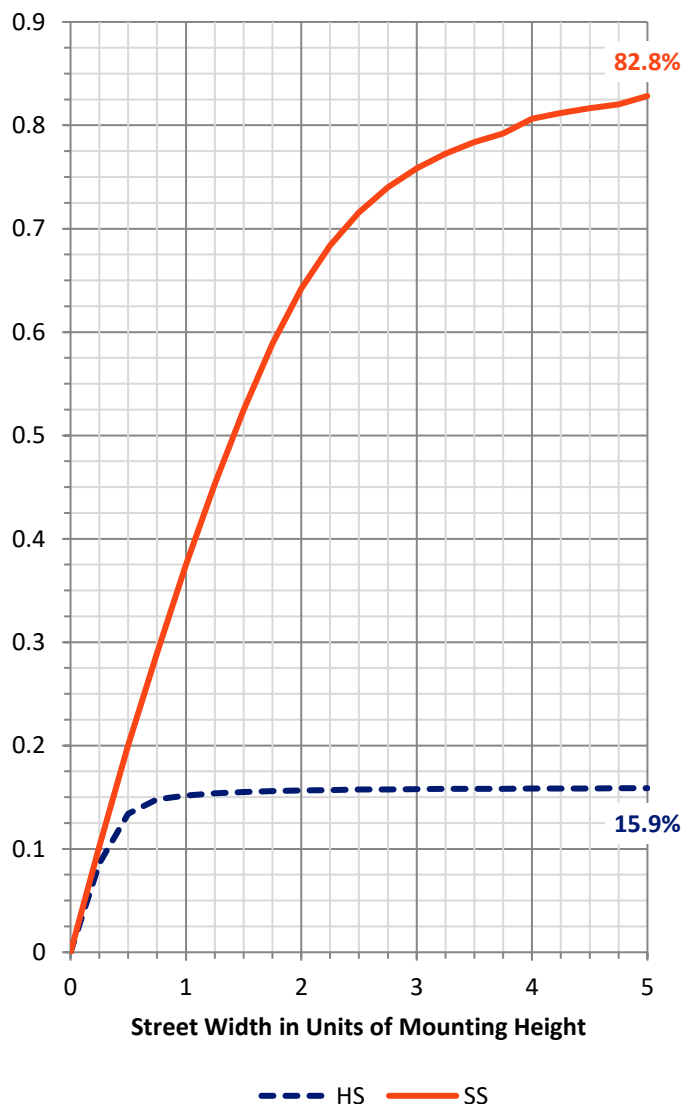
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2619.7	0.0	2619.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	13704.3	0.0	13704.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	16324.0	0.0	16324.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	1.0
10°-20°	496.0	3.0
20°-30°	825.1	5.1
30°-40°	1297.5	7.9
40°-50°	2246.5	13.8
50°-60°	3320.8	20.3
60°-70°	4317.2	26.4
70°-80°	3090.1	18.9
80°-90°	563.5	3.5
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°	16324.0	100.0
0°-180°	16324.0	100.0



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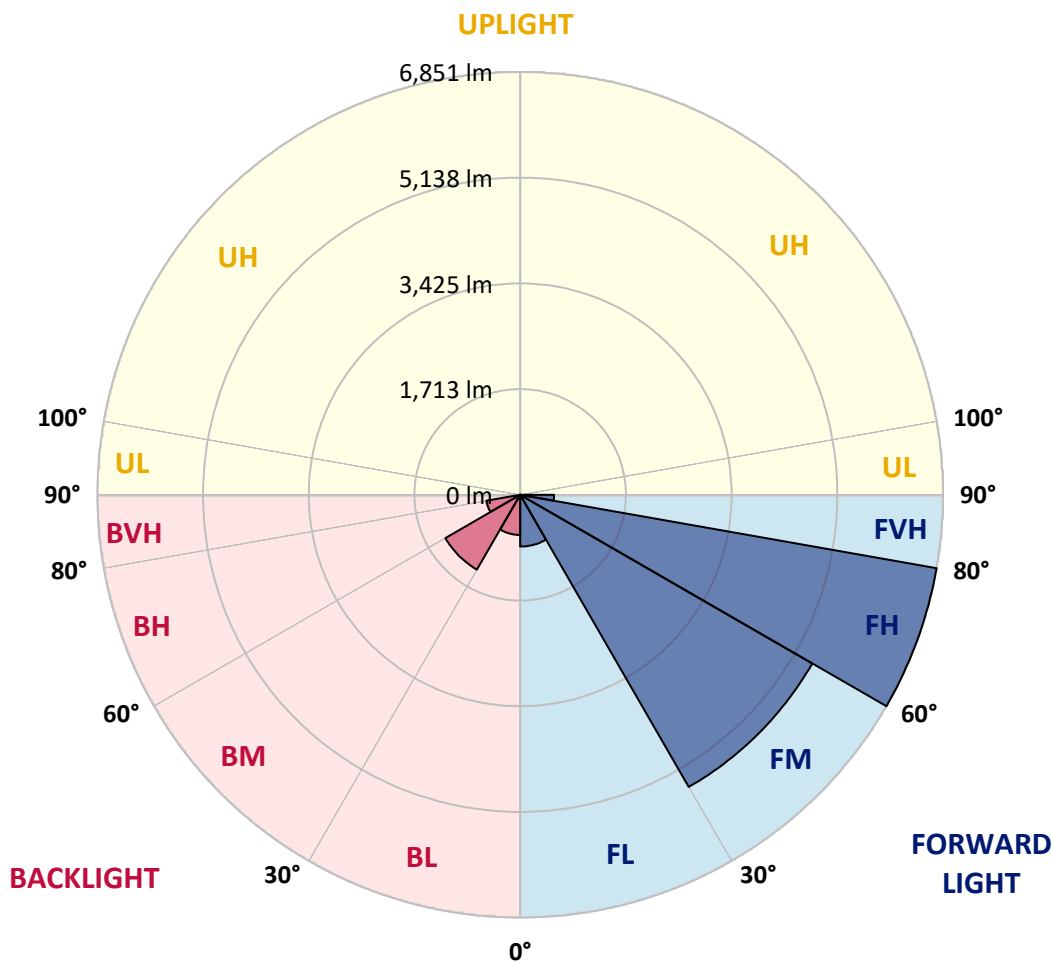
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	838.4	5.1			
FM	(30°-60°)	5465.4	33.5			
FH	(60°-80°)	6850.8	42.0			G3/7500
FVH	(80°-90°)	549.7	3.4			G4/750
BL	(0°-30°)	649.9	4.0	B2/1000		
BM	(30°-60°)	1399.4	8.6	B2/2500		
BH	(60°-80°)	556.6	3.4	B2/1000		G2/1000
BVH	(80°-90°)	13.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0
2.5°	1838.5	1837.3	1825.2	1819.1	1802.2	1796.1	1797.3	1790.0	1773.1	1775.5	1758.5
5°	1840.9	1849.4	1831.3	1826.4	1820.3	1813.1	1821.6	1811.9	1797.3	1802.2	1784.0
7.5°	1851.9	1855.5	1847.0	1842.2	1827.6	1842.2	1840.9	1832.5	1822.8	1814.3	1807.0
10°	1855.5	1851.9	1834.9	1831.3	1831.3	1845.8	1851.9	1855.5	1855.5	1842.2	1837.3
12.5°	1837.3	1834.9	1817.9	1825.2	1840.9	1850.6	1870.0	1882.2	1901.5	1887.0	1879.7
15°	1809.4	1815.5	1822.8	1825.2	1854.3	1876.1	1894.3	1916.1	1948.8	1948.8	1946.4
17.5°	1817.9	1830.0	1838.5	1850.6	1878.5	1885.8	1911.2	1946.4	2000.9	2004.6	2010.6
20°	1860.3	1860.3	1862.8	1871.2	1895.5	1917.3	1939.1	1984.0	2047.0	2067.6	2073.6
22.5°	1906.4	1904.0	1914.9	1913.7	1933.1	1947.6	1975.5	2014.3	2093.0	2131.8	2147.6
25°	1944.0	1951.2	1960.9	1948.8	1986.4	1992.4	2014.3	2061.5	2145.1	2214.2	2248.2
27.5°	2008.2	2013.0	2010.6	2016.7	2054.2	2057.9	2078.5	2146.4	2223.9	2318.5	2392.4
30°	2118.5	2101.5	2103.9	2117.3	2171.8	2179.1	2200.9	2266.3	2328.1	2453.0	2569.3
32.5°	2270.0	2270.0	2243.3	2268.8	2331.8	2351.2	2383.9	2482.1	2542.7	2609.3	2800.8
35°	2559.6	2559.6	2540.2	2473.6	2505.1	2553.6	2614.2	2749.9	2936.5	3154.7	3358.3
37.5°	3039.6	3032.3	2955.9	2836.0	2768.1	2785.1	2844.4	3063.8	3366.8	3898.8	4055.2
40°	3612.8	3592.2	3449.2	3282.0	3108.6	3079.6	3107.4	3382.5	3814.0	4603.0	4662.4
42.5°	4121.8	4120.6	3911.0	3769.2	3547.4	3498.9	3466.2	3704.9	4262.4	5114.4	5135.0
45°	4607.8	4595.7	4392.1	4238.2	4035.8	3912.2	3903.7	4070.9	4733.9	5575.0	5487.7
47.5°	5040.5	5058.7	4830.8	4683.0	4458.8	4373.9	4306.0	4449.1	5167.7	5967.6	5787.0
50°	5538.6	5571.3	5230.8	5068.4	4841.7	4758.1	4795.7	4901.1	5600.4	6288.8	6053.7
52.5°	6167.6	6063.4	5725.2	5446.5	5235.6	5194.4	5202.9	5349.5	6100.9	6551.8	6239.1
55°	6908.1	6754.2	6414.8	5979.7	5635.6	5596.8	5593.1	5742.2	6563.9	6797.8	6382.1
57.5°	7186.8	7266.8	7133.5	6812.4	6204.0	6090.0	6001.6	6139.7	6979.6	7069.3	6532.4
60°	7830.4	7916.4	7818.3	7612.2	7406.2	7009.9	6622.1	6608.7	7367.4	7328.6	6595.4
62.5°	7901.9	7874.0	8310.3	8383.0	8505.4	8351.5	8064.3	7230.5	7717.7	7460.7	6645.1
65°	7502.0	7505.6	8091.0	8490.9	9336.8	9415.6	9237.5	8219.4	7980.7	7512.9	6610.0
67.5°	6454.8	6526.3	7059.6	8018.2	9705.3	9808.3	9658.0	9262.9	8122.5	7531.0	6457.3
70°	5547.1	5549.5	6053.7	7223.2	9511.4	9588.9	9519.8	9330.8	8067.9	7386.8	6042.8
72.5°	4365.4	4352.1	4794.5	5976.1	8826.6	8991.4	8953.9	9083.5	7868.0	6865.7	5141.1
75°	3152.3	3178.9	3627.4	4603.0	7592.8	8104.3	8286.1	8681.2	7155.3	5830.7	3769.2
77.5°	2207.0	2233.6	2663.9	3496.5	6127.6	6744.5	7036.6	7383.2	5799.2	4321.8	1931.8
80°	1443.4	1467.7	1837.3	2626.3	4567.8	5093.8	5313.2	5105.9	3405.6	1815.5	212.1
82.5°	838.7	885.9	1167.1	1802.2	3200.8	3450.4	3462.5	2686.9	1272.5	162.4	99.4
85°	408.4	438.7	698.1	1068.9	1751.3	1840.9	1707.6	999.9	296.9	77.6	57.0
87.5°	60.6	80.0	275.1	403.6	296.9	243.6	146.6	33.9	19.4	9.7	7.3
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°	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0
2.5°	1748.8	1747.6	1751.3	1735.5	1736.7	1717.3	1710.1	1706.4	1723.4	1721.0	1733.1
5°	1770.7	1758.5	1757.3	1718.5	1714.9	1690.7	1676.1	1654.3	1671.3	1667.6	1667.6
7.5°	1784.0	1771.9	1764.6	1718.5	1687.0	1644.6	1620.4	1603.4	1602.2	1598.6	1599.8
10°	1805.8	1799.7	1761.0	1710.1	1667.6	1613.1	1567.0	1540.4	1528.3	1529.5	1521.0
12.5°	1854.3	1842.2	1790.0	1729.4	1661.6	1586.4	1527.1	1479.8	1455.5	1450.7	1437.4
15°	1923.4	1910.0	1844.6	1775.5	1677.3	1588.9	1500.4	1416.8	1375.6	1358.6	1346.5
17.5°	2004.6	1984.0	1908.8	1830.0	1710.1	1586.4	1474.9	1362.2	1283.5	1238.6	1235.0
20°	2068.8	2059.1	1973.0	1888.2	1730.7	1570.7	1432.5	1283.5	1165.9	1083.5	1066.5
22.5°	2153.6	2154.8	2059.1	1931.8	1747.6	1544.0	1365.9	1173.2	1013.2	902.9	883.5
25°	2276.0	2257.9	2150.0	1967.0	1751.3	1513.7	1275.0	1035.0	826.5	702.9	681.1
27.5°	2422.7	2396.0	2223.9	1985.2	1735.5	1453.1	1153.8	854.4	610.8	504.2	487.2
30°	2577.8	2514.8	2284.5	1992.4	1687.0	1355.0	981.7	624.2	432.7	357.5	350.3
32.5°	2776.6	2684.5	2336.6	1968.2	1613.1	1205.9	761.1	427.8	299.4	259.4	261.8
35°	3183.8	2958.4	2417.8	1941.5	1508.9	1019.2	532.0	283.6	231.5	226.6	227.8
37.5°	3799.5	3441.9	2560.8	1902.8	1353.7	779.3	341.8	219.4	220.6	220.6	220.6
40°	4394.5	3970.3	2780.2	1826.4	1163.5	545.4	225.4	207.2	213.3	212.1	213.3
42.5°	4818.7	4363.0	3010.5	1733.1	944.1	345.4	202.4	195.1	198.8	197.5	201.2
45°	5162.9	4699.9	3220.1	1601.0	706.6	225.4	198.8	185.4	181.8	180.6	184.2
47.5°	5417.4	4921.7	3370.4	1436.2	471.4	193.9	190.3	170.9	166.0	166.0	167.2
50°	5664.6	5135.0	3415.3	1248.3	290.9	189.1	179.4	158.8	151.5	149.1	151.5
52.5°	5836.7	5207.7	3425.0	1036.2	195.1	184.2	166.0	144.2	135.7	134.5	135.7
55°	5983.4	5356.8	3346.2	772.0	174.5	173.3	153.9	129.7	120.0	124.8	127.3
57.5°	6019.7	5371.3	3188.6	510.2	173.3	158.8	140.6	116.3	109.1	113.9	115.1
60°	6111.8	5312.0	2992.3	313.9	169.7	141.8	124.8	103.0	98.2	99.4	101.8
62.5°	6033.1	5279.2	2656.6	219.4	156.3	129.7	116.3	94.5	86.0	84.8	84.8
65°	5953.1	5086.5	2031.2	181.8	139.4	121.2	105.4	83.6	73.9	69.1	69.1
67.5°	5698.6	4655.1	1159.8	168.5	126.0	111.5	95.7	76.4	64.2	58.2	55.7
70°	5057.5	3729.2	357.5	153.9	127.3	104.2	88.5	66.7	55.7	47.3	46.1
72.5°	3960.6	2331.8	167.2	135.7	130.9	97.0	82.4	61.8	49.7	40.0	38.8
75°	2330.6	558.7	136.9	100.6	111.5	103.0	81.2	59.4	43.6	32.7	31.5
77.5°	506.6	135.7	122.4	67.9	83.6	99.4	77.6	52.1	38.8	25.5	24.2
80°	122.4	106.7	111.5	52.1	55.7	69.1	63.0	44.8	35.1	20.6	19.4
82.5°	82.4	80.0	98.2	32.7	27.9	25.5	26.7	27.9	29.1	15.8	14.5
85°	54.5	69.1	52.1	18.2	15.8	13.3	13.3	12.1	17.0	9.7	9.7
87.5°	8.5	7.3	8.5	7.3	7.3	6.1	4.8	4.8	3.6	4.8	4.8
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)