

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: P553508

Luminaire Tested: **VERD-G-CA2-140-727-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553508
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-CA2-140-727-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1290mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15478 lumens
Efficiency: N/A
Efficacy: 108.7 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

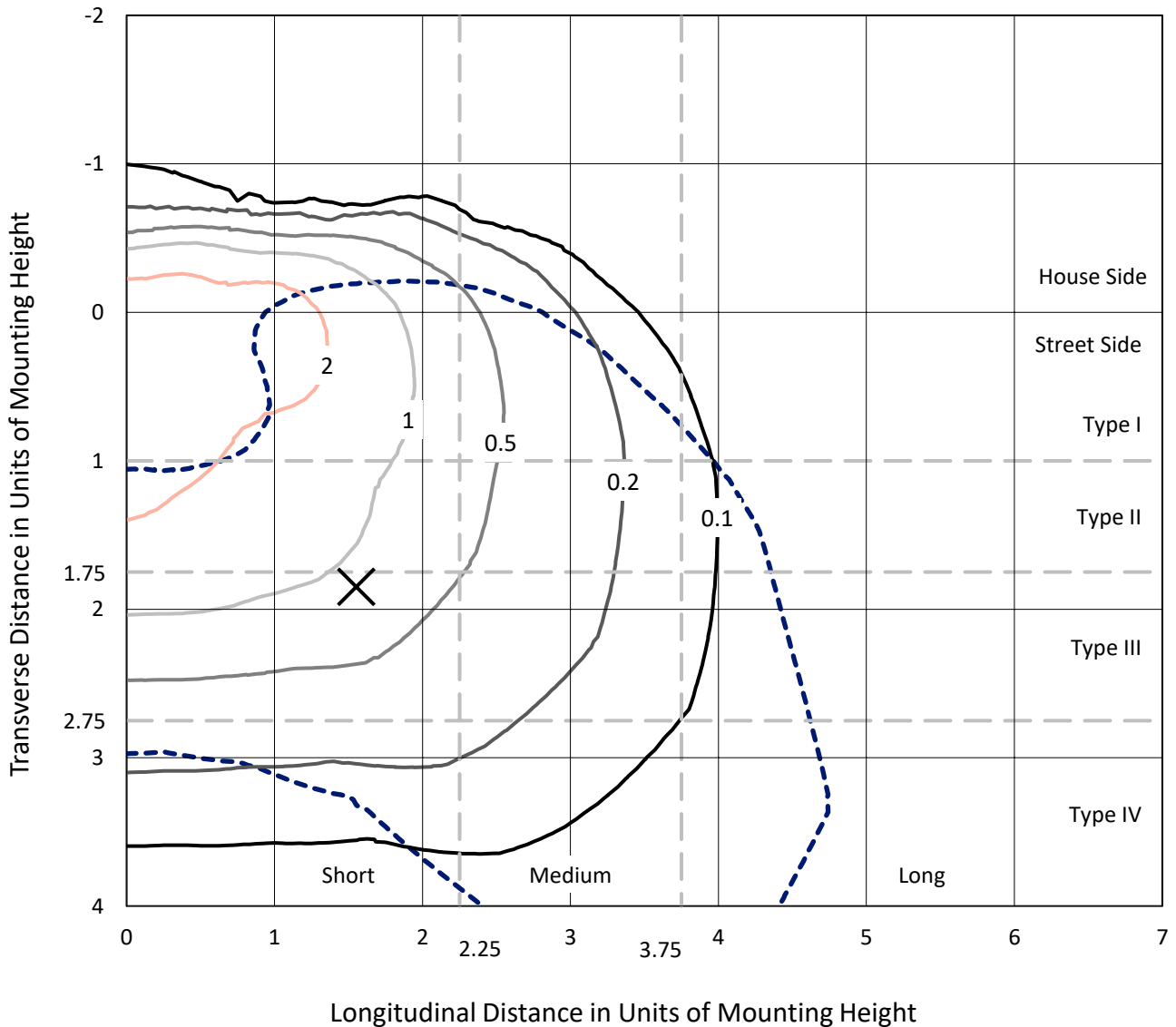
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553508
 CATALOG NUMBER: VERD-G-CA2-140-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

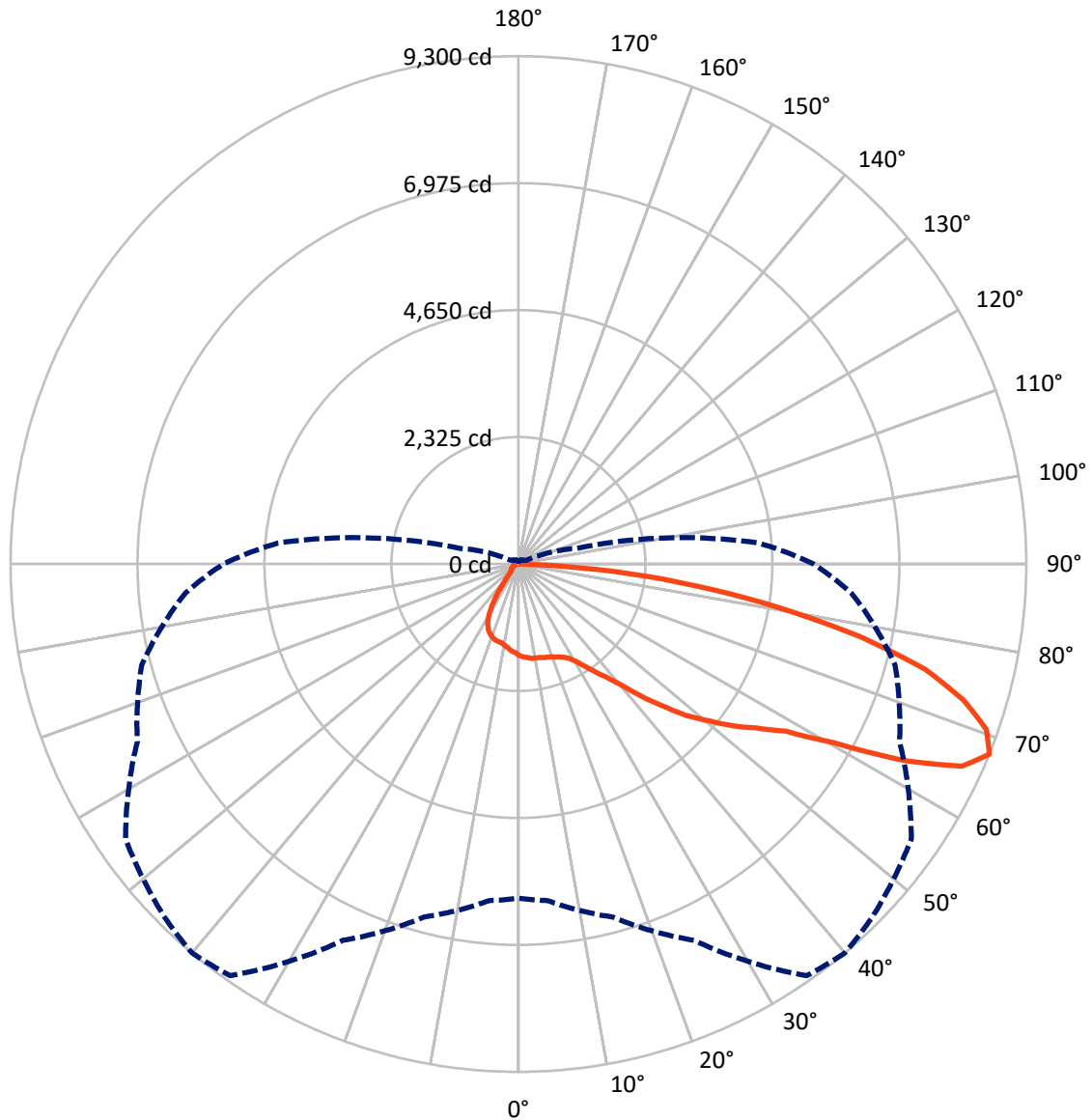
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P553508
CATALOG NUMBER: VERD-G-CA2-140-727-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P553508
 CATALOG NUMBER: VERD-G-CA2-140-727-U-T4-HSS

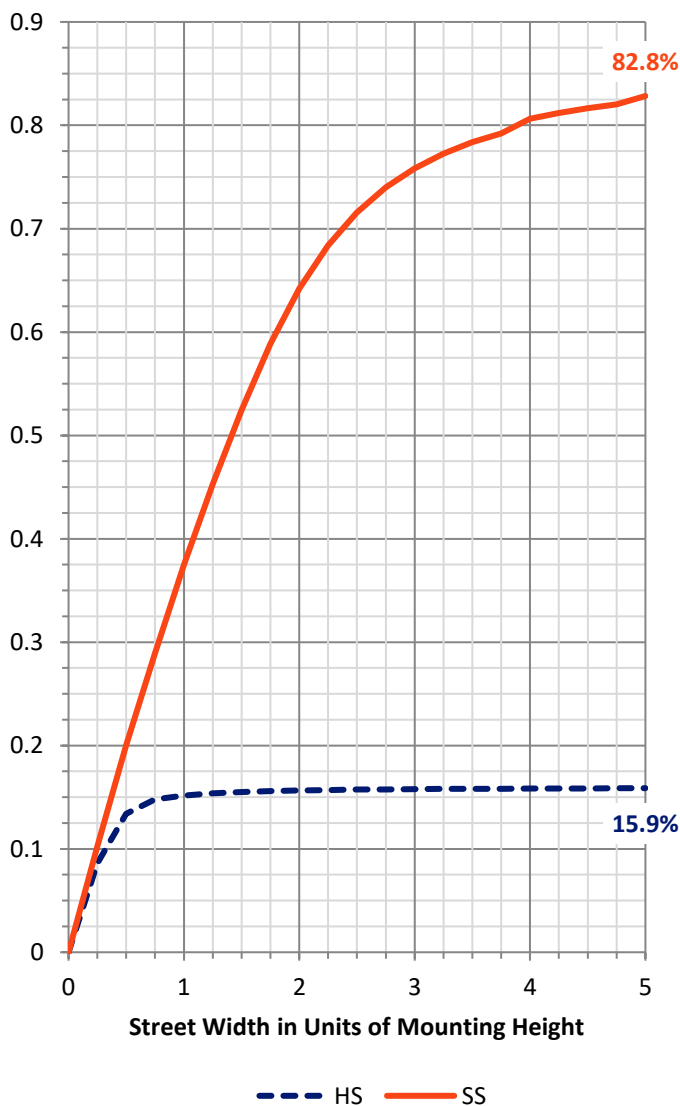
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2484.0	0.0	2484.0
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	12994.0	0.0	12994.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	15478.0	0.0	15478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	1.0
10°-20°	470.3	3.0
20°-30°	782.4	5.1
30°-40°	1230.2	7.9
40°-50°	2130.1	13.8
50°-60°	3148.7	20.3
60°-70°	4093.5	26.4
70°-80°	2930.0	18.9
80°-90°	534.3	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°	15478.0	100.0
0°-180°	15478.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553508

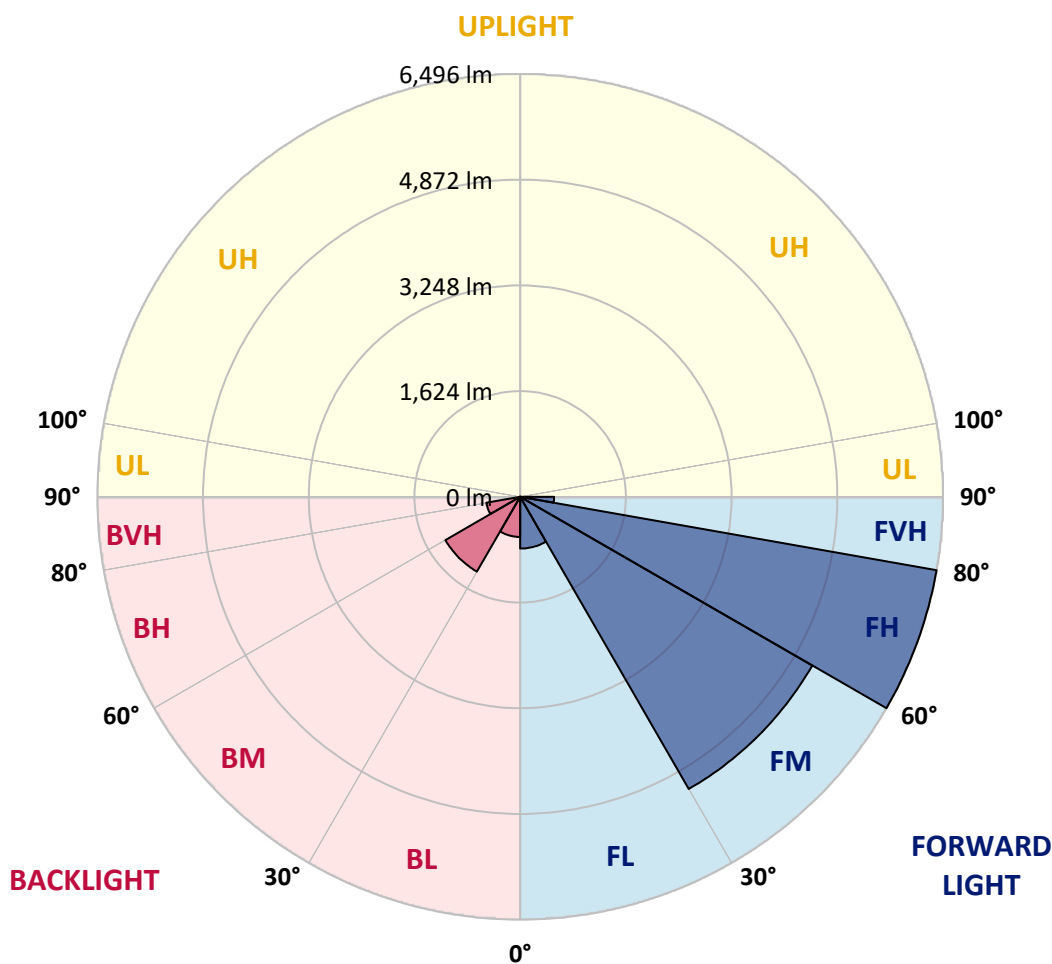
CATALOG NUMBER: VERD-G-CA2-140-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.0	5.1			
FM	(30°-60°)	5182.1	33.5			
FH	(60°-80°)	6495.7	42.0			G3/7500
FVH	(80°-90°)	521.2	3.4			G4/750
BL	(0°-30°)	616.2	4.0	B2/1000		
BM	(30°-60°)	1326.9	8.6	B2/2500		
BH	(60°-80°)	527.8	3.4	B2/1000		G2/1000
BVH	(80°-90°)	13.1	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





REPORT NUMBER: P553508

CATALOG NUMBER: VERD-G-CA2-140-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1743.2	1742.1	1730.6	1724.9	1708.8	1703.0	1704.2	1697.3	1681.2	1683.5	1667.4
5°	1745.5	1753.6	1736.3	1731.7	1726.0	1719.1	1727.2	1718.0	1704.2	1708.8	1691.5
7.5°	1755.9	1759.3	1751.3	1746.7	1732.9	1746.7	1745.5	1737.5	1728.3	1720.3	1713.4
10°	1759.3	1755.9	1739.8	1736.3	1736.3	1750.1	1755.9	1759.3	1759.3	1746.7	1742.1
12.5°	1742.1	1739.8	1723.7	1730.6	1745.5	1754.7	1773.1	1784.6	1803.0	1789.2	1782.3
15°	1715.7	1721.4	1728.3	1730.6	1758.2	1778.9	1796.1	1816.8	1847.8	1847.8	1845.5
17.5°	1723.7	1735.2	1743.2	1754.7	1781.2	1788.1	1812.2	1845.5	1897.2	1900.7	1906.4
20°	1763.9	1763.9	1766.2	1774.3	1797.3	1817.9	1838.6	1881.1	1940.9	1960.4	1966.2
22.5°	1807.6	1805.3	1815.6	1814.5	1832.9	1846.7	1873.1	1909.9	1984.6	2021.3	2036.3
25°	1843.2	1850.1	1859.3	1847.8	1883.4	1889.2	1909.9	1954.7	2034.0	2099.5	2131.6
27.5°	1904.1	1908.7	1906.4	1912.2	1947.8	1951.2	1970.8	2035.1	2108.7	2198.3	2268.4
30°	2008.7	1992.6	1994.9	2007.5	2059.3	2066.1	2086.8	2148.9	2207.5	2325.9	2436.2
32.5°	2152.3	2152.3	2127.1	2151.2	2210.9	2229.3	2260.4	2353.4	2410.9	2474.1	2655.7
35°	2427.0	2427.0	2408.6	2345.4	2375.3	2421.2	2478.7	2607.4	2784.4	2991.2	3184.3
37.5°	2882.0	2875.1	2802.7	2689.0	2624.6	2640.7	2697.0	2905.0	3192.3	3696.8	3845.0
40°	3425.6	3406.0	3270.4	3111.9	2947.5	2920.0	2946.4	3207.2	3616.3	4364.4	4420.7
42.5°	3908.2	3907.1	3708.3	3573.8	3363.5	3317.6	3286.5	3512.9	4041.5	4849.4	4868.9
45°	4369.0	4357.5	4164.5	4018.5	3826.6	3709.4	3701.4	3860.0	4488.5	5286.0	5203.3
47.5°	4779.3	4796.5	4580.5	4440.3	4227.7	4147.2	4082.9	4218.5	4899.9	5658.4	5487.1
50°	5251.6	5282.6	4959.7	4805.7	4590.8	4511.5	4547.1	4647.1	5310.2	5962.9	5739.9
52.5°	5848.0	5749.1	5428.5	5164.2	4964.3	4925.2	4933.2	5072.3	5784.8	6212.2	5915.8
55°	6550.1	6404.1	6082.4	5669.8	5343.5	5306.7	5303.3	5444.6	6223.7	6445.5	6051.4
57.5°	6814.4	6890.2	6763.8	6459.3	5882.4	5774.4	5690.5	5821.5	6617.9	6702.9	6193.8
60°	7424.6	7506.2	7413.1	7217.7	7022.4	6646.6	6278.9	6266.2	6985.6	6948.8	6253.6
62.5°	7492.4	7465.9	7879.6	7948.6	8064.6	7918.7	7646.4	6855.8	7317.7	7074.1	6300.7
65°	7113.2	7116.6	7671.6	8050.9	8853.0	8927.6	8758.7	7793.4	7567.1	7123.5	6267.4
67.5°	6120.3	6188.1	6693.7	7602.7	9202.3	9300.0	9157.5	8782.9	7701.5	7140.7	6122.6
70°	5259.6	5261.9	5739.9	6848.9	9018.4	9092.0	9026.5	8847.2	7649.8	7004.0	5729.6
72.5°	4139.2	4126.6	4546.0	5666.4	8369.2	8525.4	8489.8	8612.8	7460.2	6509.9	4874.6
75°	2988.9	3014.2	3439.4	4364.4	7199.3	7684.3	7856.6	8231.3	6784.5	5528.5	3573.8
77.5°	2092.6	2117.9	2525.8	3315.3	5810.0	6394.9	6671.9	7000.5	5498.6	4097.8	1831.7
80°	1368.6	1391.6	1742.1	2490.2	4331.1	4829.8	5037.8	4841.3	3229.1	1721.4	201.1
82.5°	795.2	840.0	1106.6	1708.8	3034.9	3271.6	3283.1	2547.6	1206.6	154.0	94.2
85°	387.3	416.0	661.9	1013.5	1660.5	1745.5	1619.1	948.0	281.5	73.5	54.0
87.5°	57.5	75.8	260.9	382.7	281.5	231.0	139.0	32.2	18.4	9.2	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P553508

CATALOG NUMBER: VERD-G-CA2-140-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1658.2	1657.1	1660.5	1645.6	1646.7	1628.3	1621.4	1618.0	1634.1	1631.8	1643.3
5°	1678.9	1667.4	1666.2	1629.5	1626.0	1603.0	1589.3	1568.6	1584.7	1581.2	1581.2
7.5°	1691.5	1680.0	1673.1	1629.5	1599.6	1559.4	1536.4	1520.3	1519.2	1515.7	1516.9
10°	1712.2	1706.5	1669.7	1621.4	1581.2	1529.5	1485.8	1460.6	1449.1	1450.2	1442.2
12.5°	1758.2	1746.7	1697.3	1639.8	1575.5	1504.2	1447.9	1403.1	1380.1	1375.5	1362.9
15°	1823.7	1811.0	1749.0	1683.5	1590.4	1506.5	1422.6	1343.3	1304.3	1288.2	1276.7
17.5°	1900.7	1881.1	1809.9	1735.2	1621.4	1504.2	1398.5	1291.6	1216.9	1174.4	1171.0
20°	1961.6	1952.4	1870.8	1790.4	1641.0	1489.3	1358.3	1216.9	1105.5	1027.3	1011.2
22.5°	2042.0	2043.2	1952.4	1831.7	1657.1	1464.0	1295.1	1112.4	960.7	856.1	837.7
25°	2158.1	2140.8	2038.6	1865.0	1660.5	1435.3	1208.9	981.4	783.7	666.5	645.8
27.5°	2297.1	2271.8	2108.7	1882.3	1645.6	1377.8	1094.0	810.1	579.2	478.0	462.0
30°	2444.2	2384.5	2166.1	1889.2	1599.6	1284.7	930.8	591.8	410.2	339.0	332.1
32.5°	2632.7	2545.3	2215.5	1866.2	1529.5	1143.4	721.7	405.6	283.8	245.9	248.2
35°	3018.8	2805.0	2292.5	1840.9	1430.7	966.4	504.5	268.9	219.5	214.9	216.0
37.5°	3602.5	3263.5	2428.1	1804.1	1283.6	738.9	324.1	208.0	209.1	209.1	209.1
40°	4166.8	3764.6	2636.1	1731.7	1103.2	517.1	213.7	196.5	202.2	201.1	202.2
42.5°	4569.0	4136.9	2854.5	1643.3	895.2	327.5	191.9	185.0	188.5	187.3	190.8
45°	4895.3	4456.4	3053.3	1518.0	669.9	213.7	188.5	175.8	172.4	171.2	174.7
47.5°	5136.6	4666.6	3195.7	1361.7	447.0	183.9	180.4	162.0	157.4	157.4	158.6
50°	5371.1	4868.9	3238.3	1183.6	275.8	179.3	170.1	150.5	143.6	141.3	143.6
52.5°	5534.2	4937.8	3247.5	982.5	185.0	174.7	157.4	136.7	128.7	127.6	128.7
55°	5673.3	5079.2	3172.8	732.0	165.5	164.3	145.9	123.0	113.8	118.4	120.7
57.5°	5707.8	5093.0	3023.4	483.8	164.3	150.5	133.3	110.3	103.4	108.0	109.2
60°	5795.1	5036.7	2837.2	297.6	160.9	134.4	118.4	97.7	93.1	94.2	96.5
62.5°	5720.4	5005.6	2518.9	208.0	148.2	123.0	110.3	89.6	81.6	80.4	80.4
65°	5644.6	4822.9	1926.0	172.4	132.2	114.9	100.0	79.3	70.1	65.5	65.5
67.5°	5403.2	4413.8	1099.7	159.7	119.5	105.7	90.8	72.4	60.9	55.2	52.9
70°	4795.3	3535.9	339.0	145.9	120.7	98.8	83.9	63.2	52.9	44.8	43.7
72.5°	3755.4	2210.9	158.6	128.7	124.1	91.9	78.1	58.6	47.1	37.9	36.8
75°	2209.8	529.8	129.9	95.4	105.7	97.7	77.0	56.3	41.4	31.0	29.9
77.5°	480.3	128.7	116.1	64.4	79.3	94.2	73.5	49.4	36.8	24.1	23.0
80°	116.1	101.1	105.7	49.4	52.9	65.5	59.8	42.5	33.3	19.5	18.4
82.5°	78.1	75.8	93.1	31.0	26.4	24.1	25.3	26.4	27.6	14.9	13.8
85°	51.7	65.5	49.4	17.2	14.9	12.6	12.6	11.5	16.1	9.2	9.2
87.5°	8.0	6.9	8.0	6.9	6.9	5.7	4.6	4.6	3.4	4.6	4.6
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)