

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: P509054

Luminaire Tested: **VERD-CA2-100-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-722-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1370mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10643 lumens
Efficiency: N/A
Efficacy: 102.9 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

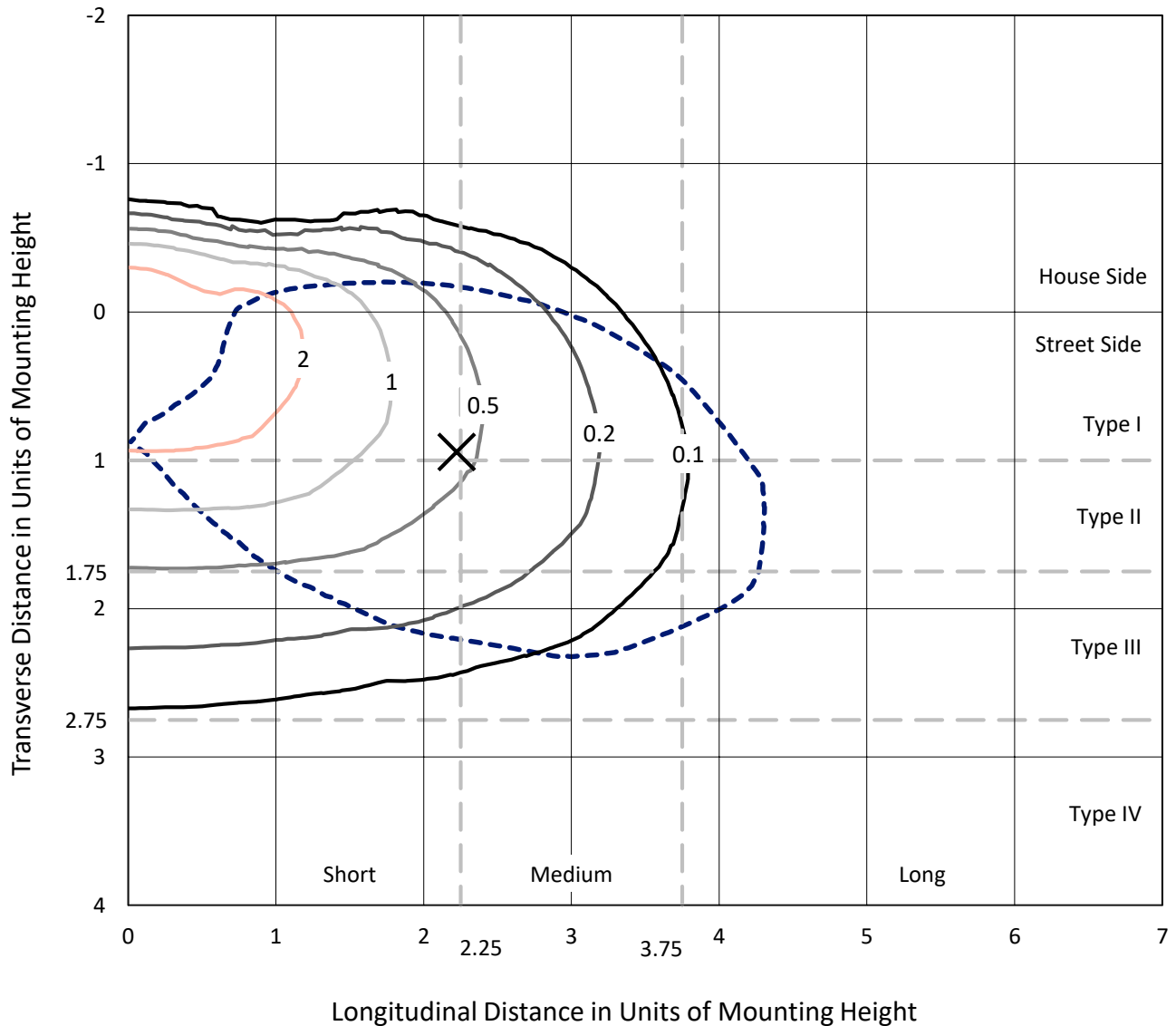
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

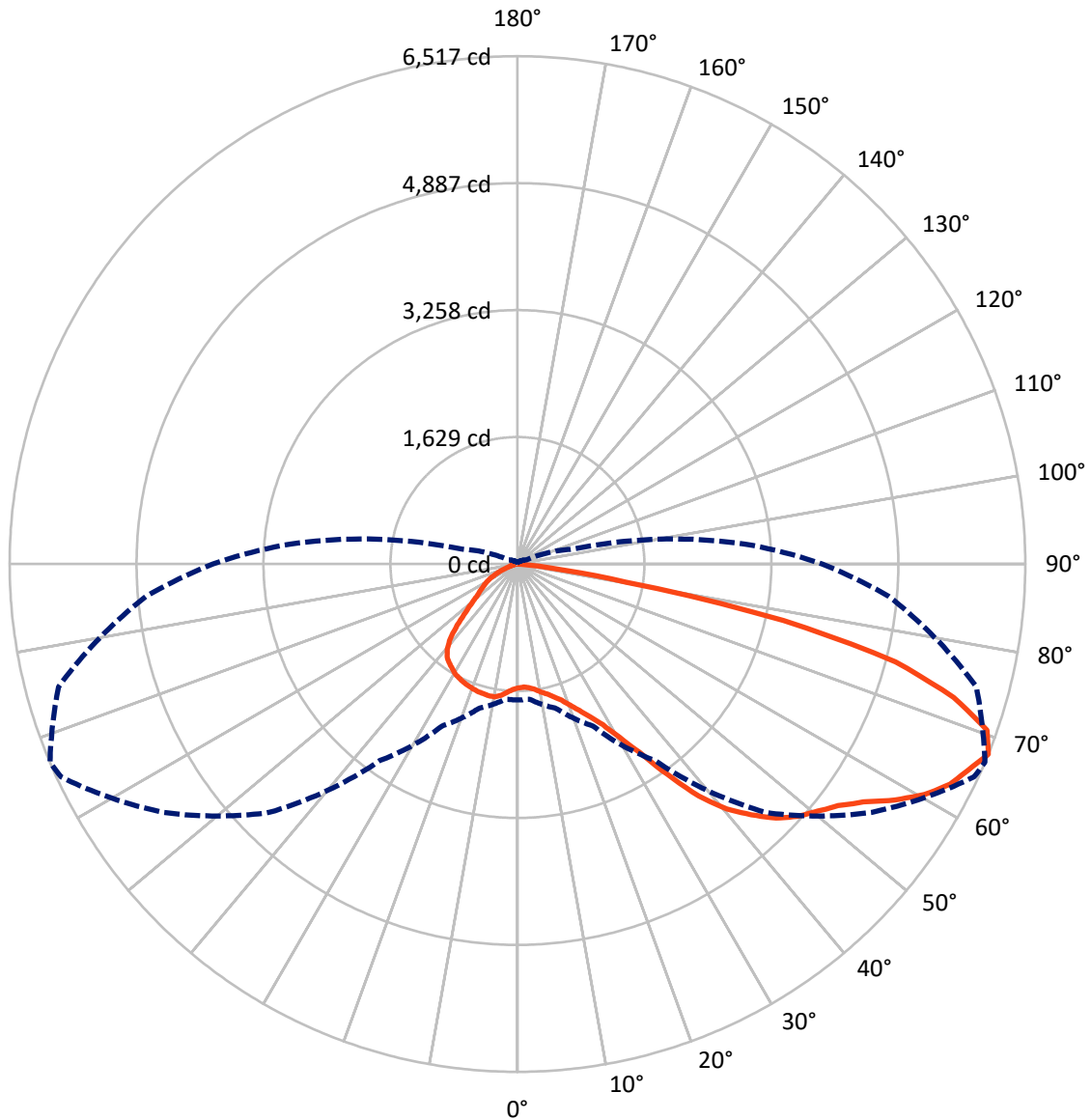
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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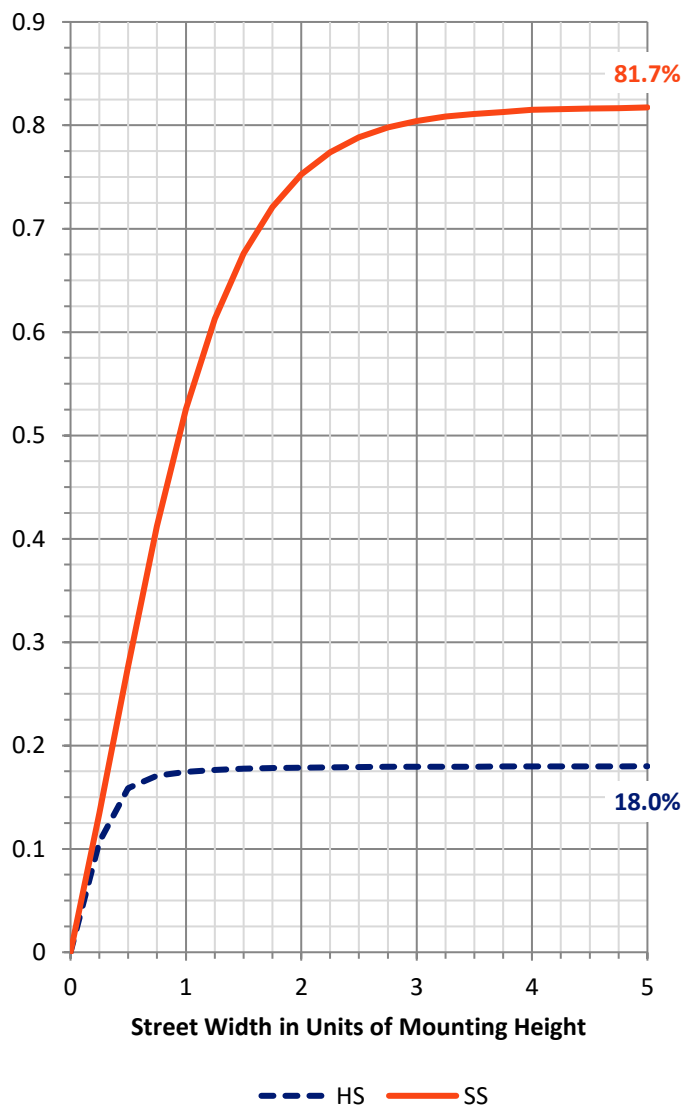
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1939.2	0.0	1939.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8703.8	0.0	8703.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	10643.0	0.0	10643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.5
10°-20°	498.6	4.7
20°-30°	850.9	8.0
30°-40°	1324.4	12.4
40°-50°	1869.5	17.6
50°-60°	2251.7	21.2
60°-70°	2327.0	21.9
70°-80°	1281.9	12.0
80°-90°	79.9	0.8
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°	10643.0	100.0
0°-180°	10643.0	100.0

Coefficient of Utilization



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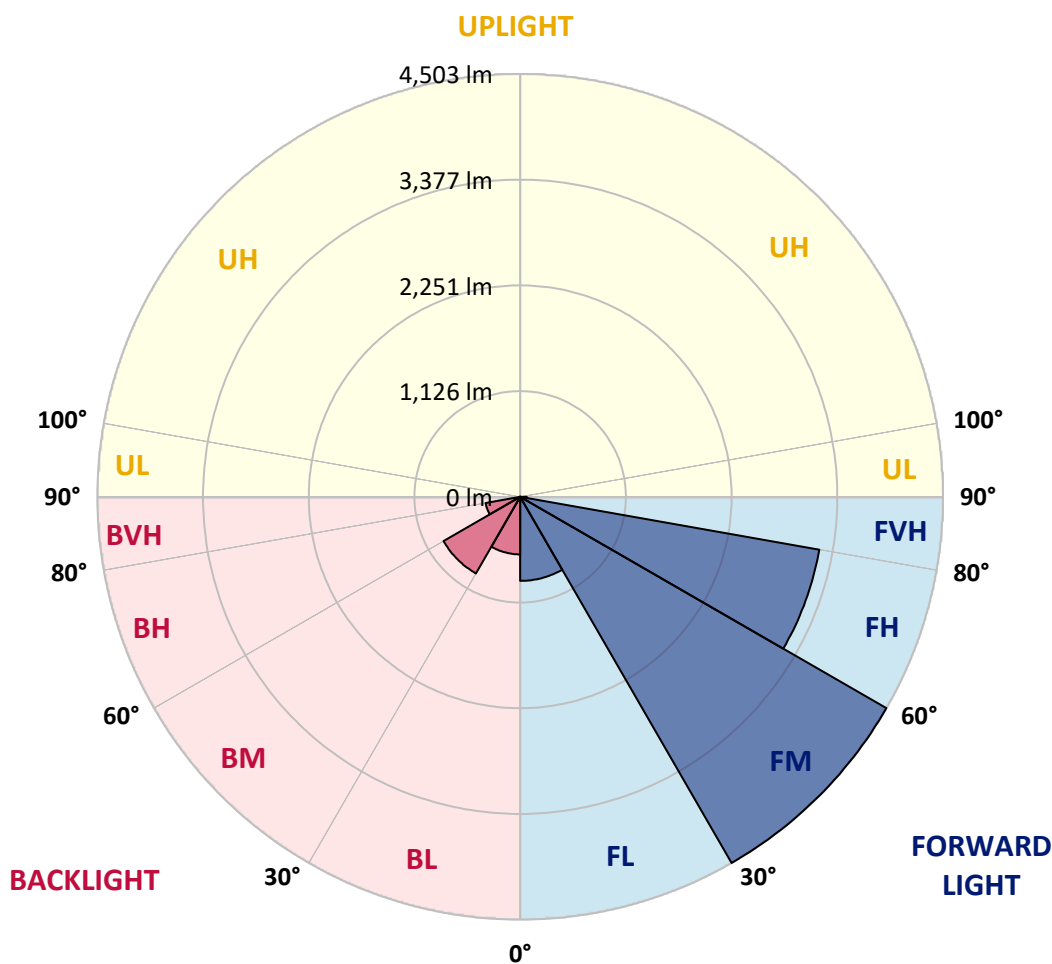
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.5	8.4			
FM	(30°-60°)	4502.9	42.3			
FH	(60°-80°)	3235.1	30.4			G2/5000
FVH	(80°-90°)	70.3	0.7			G1/100
BL	(0°-30°)	613.1	5.8	B2/1000		
BM	(30°-60°)	942.7	8.9	B1/1000		
BH	(60°-80°)	373.8	3.5	B1/500		G1/500
BVH	(80°-90°)	9.6	0.1			G0/10
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°	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1
2.5°	1574.3	1590.4	1590.4	1585.4	1587.9	1576.8	1569.4	1578.0	1580.5	1587.9	1597.7
5°	1605.1	1623.6	1622.4	1613.8	1606.4	1596.5	1586.7	1594.0	1595.3	1597.7	1610.1
7.5°	1670.4	1687.7	1680.3	1671.7	1668.0	1645.8	1624.8	1623.6	1626.1	1633.5	1647.0
10°	1755.4	1769.0	1766.5	1753.0	1743.1	1709.8	1680.3	1669.2	1670.4	1672.9	1696.3
12.5°	1851.5	1870.0	1856.4	1838.0	1820.7	1772.7	1732.0	1716.0	1713.5	1719.7	1739.4
15°	1946.4	1966.1	1956.2	1945.1	1905.7	1852.7	1801.0	1775.1	1772.7	1772.7	1785.0
17.5°	2070.8	2078.2	2072.0	2056.0	2011.7	1945.1	1883.5	1845.4	1839.2	1842.9	1845.4
20°	2208.8	2222.3	2214.9	2197.7	2133.6	2062.2	1984.6	1939.0	1935.3	1939.0	1915.6
22.5°	2376.3	2381.2	2377.5	2349.2	2291.3	2196.4	2094.2	2042.5	2042.5	2046.1	1998.1
25°	2519.2	2548.8	2540.1	2505.6	2437.9	2355.3	2232.2	2168.1	2171.8	2174.3	2107.7
27.5°	2685.5	2710.1	2704.0	2678.1	2633.8	2529.0	2381.2	2339.3	2335.6	2331.9	2228.5
30°	2844.4	2862.9	2875.2	2869.0	2833.3	2734.8	2603.0	2572.2	2582.0	2574.6	2396.0
32.5°	2973.8	3005.8	3040.3	3047.7	3037.8	2950.3	2854.3	2870.3	2882.6	2970.1	2862.9
35°	3084.6	3119.1	3175.8	3234.9	3246.0	3211.5	3163.5	3280.5	3316.2	3494.8	3381.5
37.5°	3200.4	3230.0	3286.6	3380.3	3441.9	3460.3	3507.2	3691.9	3778.2	3932.2	3721.5
40°	3253.4	3283.0	3381.5	3499.8	3627.9	3731.4	3825.0	4039.3	4135.4	4182.2	3908.7
42.5°	3200.4	3228.7	3387.7	3610.6	3784.3	4013.5	4119.4	4333.7	4397.8	4392.9	4139.1
45°	3148.7	3175.8	3342.1	3639.0	3926.0	4273.4	4363.3	4603.5	4650.3	4591.2	4272.1
47.5°	3082.2	3119.1	3291.6	3621.7	4052.9	4508.7	4591.2	4795.7	4837.6	4750.1	4424.9
50°	3000.9	3032.9	3233.7	3594.6	4136.6	4684.8	4772.3	4975.5	4986.6	4905.3	4562.9
52.5°	2907.2	2924.5	3142.5	3540.4	4209.3	4814.2	4914.0	5127.1	5152.9	5130.8	4726.7
55°	2768.0	2798.8	3032.9	3455.4	4214.2	4881.9	5023.6	5341.4	5388.2	5336.5	4826.5
57.5°	2621.4	2654.7	2897.4	3337.2	4141.6	4925.0	5223.2	5619.8	5712.2	5545.9	4907.8
60°	2460.1	2489.6	2728.6	3162.2	4012.2	4986.6	5428.9	5946.3	6004.2	5724.5	4962.0
62.5°	2272.8	2296.2	2524.1	2950.3	3813.9	4970.6	5606.3	6208.7	6227.1	5884.7	4957.1
65°	2044.9	2043.7	2255.6	2654.7	3488.7	4842.5	5638.3	6340.5	6362.6	5988.2	4912.7
67.5°	1744.3	1740.6	1918.0	2293.8	3078.5	4508.7	5553.3	6463.7	6516.6	6096.6	4783.4
70°	1367.4	1372.3	1506.6	1841.7	2498.2	3999.9	5329.1	6381.1	6392.2	5888.4	4448.3
72.5°	967.0	964.6	1055.7	1282.4	1846.6	3122.8	4683.6	5818.2	5852.6	5373.4	3875.5
75°	443.5	462.0	689.9	783.5	1114.8	2126.2	3853.3	4943.5	5010.0	4625.7	3021.8
77.5°	82.5	85.0	147.8	298.1	436.1	767.5	2302.4	3348.2	3487.4	3152.4	1702.5
80°	65.3	66.5	87.5	142.9	182.3	344.9	757.6	1379.7	1410.5	1229.4	613.5
82.5°	48.0	49.3	65.3	92.4	85.0	149.1	315.4	401.6	426.2	396.7	243.9
85°	28.3	29.6	38.2	45.6	44.3	59.1	53.0	48.0	43.1	35.7	30.8
87.5°	7.4	9.9	16.0	16.0	12.3	11.1	9.9	8.6	9.9	8.6	8.6
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°	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1	1589.1
2.5°	1600.2	1599.0	1602.7	1612.5	1621.1	1622.4	1634.7	1650.7	1643.3	1664.3	1656.9
5°	1617.5	1621.1	1634.7	1650.7	1665.5	1677.8	1696.3	1723.4	1714.8	1734.5	1727.1
7.5°	1656.9	1663.0	1684.0	1700.0	1717.2	1713.5	1729.6	1745.6	1725.9	1746.8	1736.9
10°	1703.7	1711.1	1723.4	1729.6	1724.6	1722.2	1718.5	1716.0	1690.1	1704.9	1698.8
12.5°	1745.6	1746.8	1743.1	1727.1	1716.0	1686.4	1672.9	1666.7	1627.3	1638.4	1631.0
15°	1786.2	1769.0	1750.5	1713.5	1682.7	1637.2	1607.6	1581.7	1544.8	1559.6	1544.8
17.5°	1830.6	1804.7	1756.7	1702.5	1639.6	1573.1	1525.1	1483.2	1427.7	1425.3	1420.4
20°	1887.2	1849.0	1771.4	1682.7	1592.8	1493.0	1416.7	1346.4	1262.7	1251.6	1229.4
22.5°	1958.7	1902.0	1793.6	1656.9	1534.9	1409.3	1279.9	1164.1	1058.2	1024.9	1012.6
25°	2041.2	1971.0	1805.9	1633.5	1479.5	1287.3	1111.2	960.9	836.4	800.7	790.9
27.5°	2144.7	2058.5	1824.4	1599.0	1390.8	1138.3	909.1	742.8	632.0	574.1	565.4
30°	2287.6	2155.8	1850.3	1564.5	1283.6	963.3	704.6	511.2	406.5	372.0	365.9
32.5°	2676.9	2387.4	1878.6	1502.9	1141.9	768.7	468.1	326.4	256.2	227.9	225.4
35°	3170.9	2811.1	1982.1	1432.7	970.7	533.4	290.7	194.6	156.4	145.4	145.4
37.5°	3489.9	3140.1	2154.6	1334.1	745.3	326.4	174.9	126.9	119.5	118.3	118.3
40°	3657.4	3285.4	2279.0	1198.6	498.9	189.7	123.2	109.6	107.2	104.7	104.7
42.5°	3870.6	3409.8	2386.1	1015.1	289.5	133.0	108.4	99.8	96.1	93.6	93.6
45°	3988.8	3545.3	2318.4	797.0	165.1	119.5	99.8	89.9	86.2	86.2	86.2
47.5°	4104.6	3674.7	2232.2	572.8	140.4	109.6	93.6	83.8	80.1	82.5	82.5
50°	4236.4	3762.2	2095.4	428.7	133.0	102.2	85.0	76.4	73.9	77.6	77.6
52.5°	4359.6	3770.8	1876.1	342.5	123.2	94.9	78.8	70.2	67.8	70.2	70.2
55°	4395.3	3743.7	1813.3	272.2	117.0	87.5	73.9	65.3	59.1	59.1	57.9
57.5°	4386.7	3690.7	1660.6	230.4	109.6	80.1	67.8	57.9	50.5	48.0	48.0
60°	4357.1	3616.8	1499.2	200.8	102.2	73.9	60.4	49.3	41.9	39.4	39.4
62.5°	4320.2	3477.6	1271.3	174.9	94.9	71.4	50.5	40.7	35.7	33.3	33.3
65°	4165.0	3260.8	1017.5	149.1	87.5	62.8	44.3	35.7	30.8	28.3	28.3
67.5°	3907.5	2930.6	735.4	126.9	81.3	53.0	39.4	30.8	25.9	24.6	23.4
70°	3523.2	2474.8	455.8	109.6	70.2	48.0	34.5	27.1	23.4	19.7	19.7
72.5°	2936.8	1937.7	239.0	86.2	55.4	40.7	30.8	24.6	19.7	17.2	16.0
75°	2064.6	1194.9	172.5	66.5	38.2	33.3	25.9	20.9	17.2	14.8	13.6
77.5°	996.6	411.4	120.7	49.3	27.1	24.6	19.7	17.2	13.6	12.3	12.3
80°	364.6	234.1	86.2	35.7	22.2	19.7	14.8	13.6	11.1	9.9	9.9
82.5°	163.8	110.9	49.3	23.4	16.0	14.8	11.1	8.6	8.6	8.6	8.6
85°	27.1	23.4	16.0	11.1	8.6	7.4	7.4	6.2	6.2	6.2	6.2
87.5°	7.4	7.4	6.2	6.2	4.9	3.7	2.5	2.5	2.5	3.7	3.7
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)