

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: P509136

Luminaire Tested: **VERD-CA2-110-750-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509136
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-CA2-110-750-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14839 lumens
Efficiency: N/A
Efficacy: 130.6 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

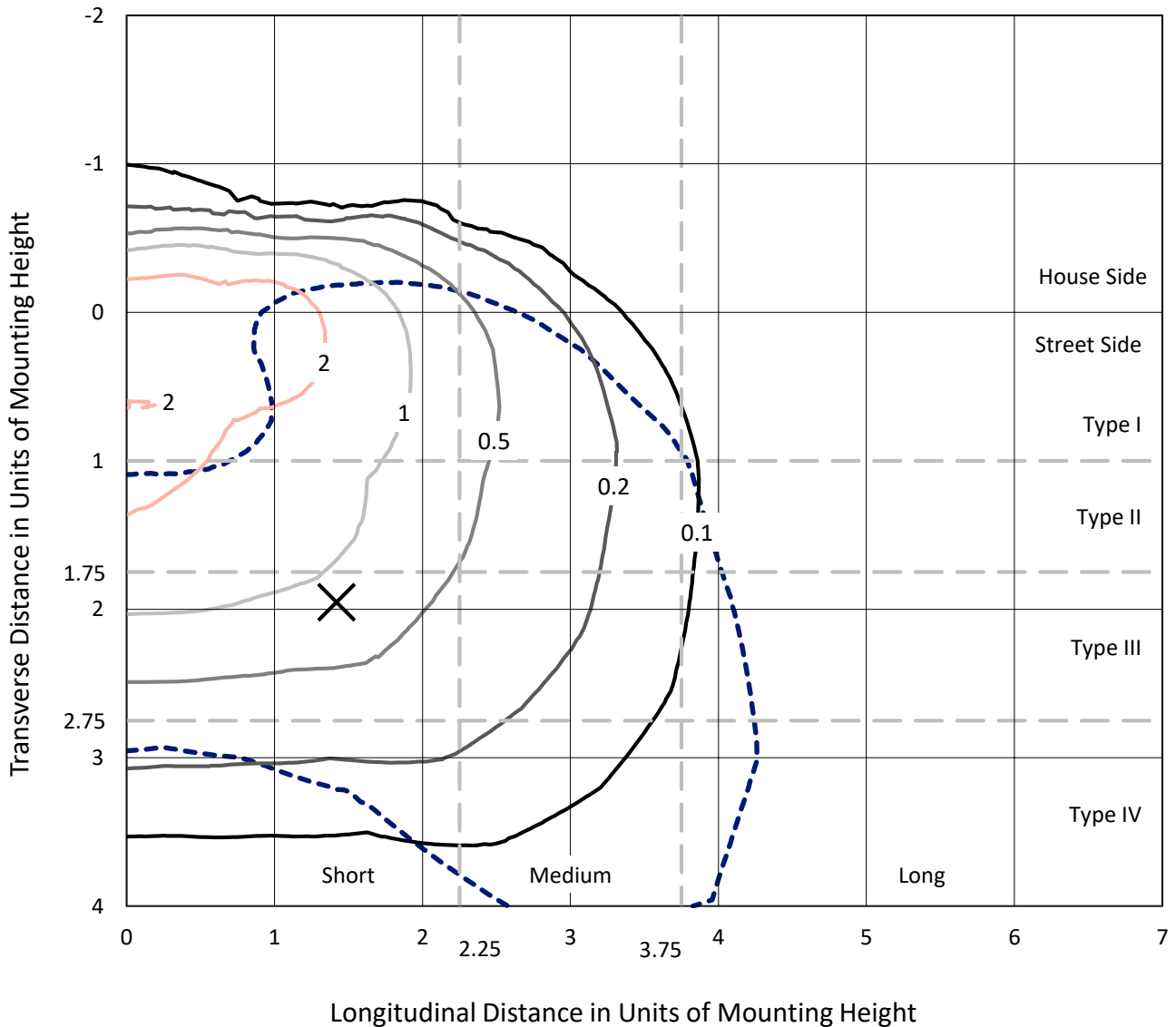
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

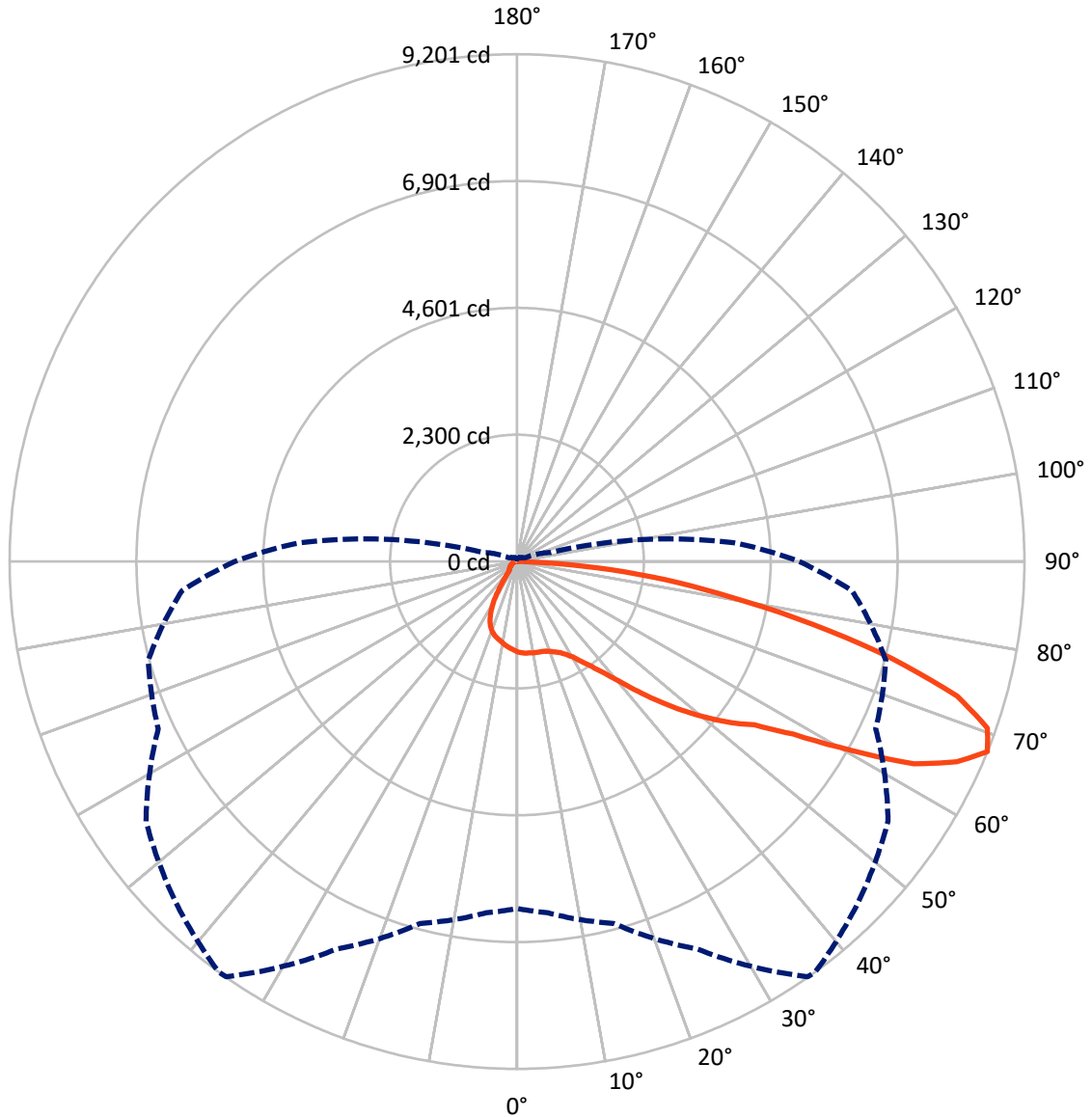
× Max cd
 - - - 1/2 Max cd



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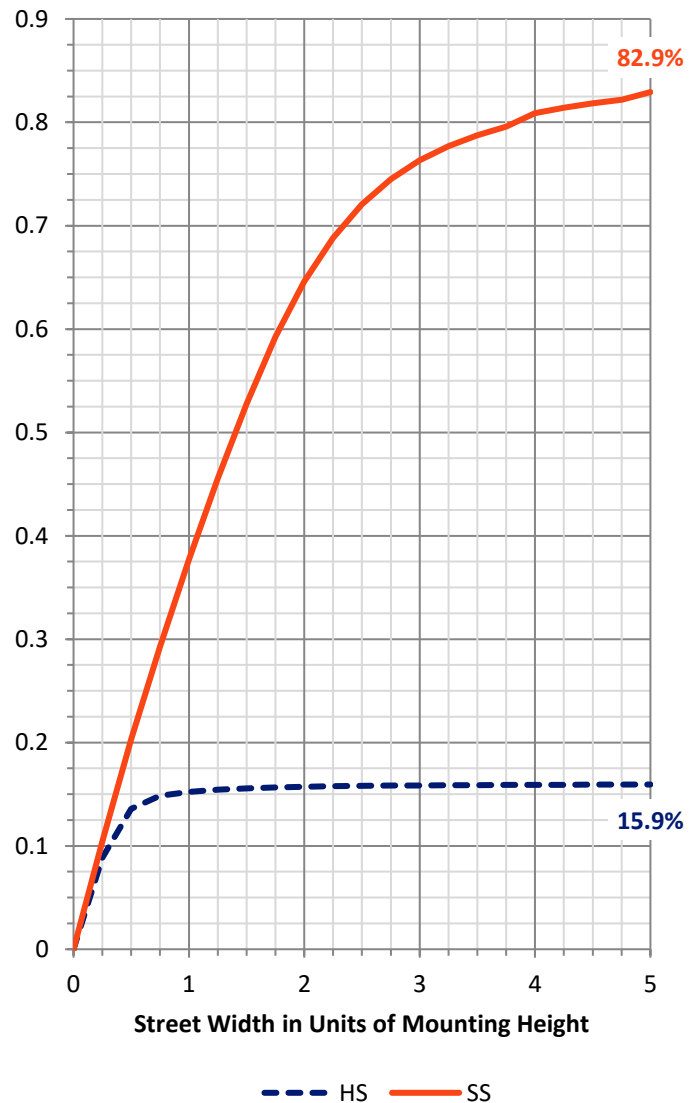
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2393.0	0.0	2393.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	12445.9	0.0	12445.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	14839.0	0.0	14839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	1.0
10°-20°	458.5	3.1
20°-30°	758.3	5.1
30°-40°	1202.9	8.1
40°-50°	2076.2	14.0
50°-60°	3077.4	20.7
60°-70°	3978.7	26.8
70°-80°	2685.8	18.1
80°-90°	446.4	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°	14839.0	100.0
0°-180°	14839.0	100.0



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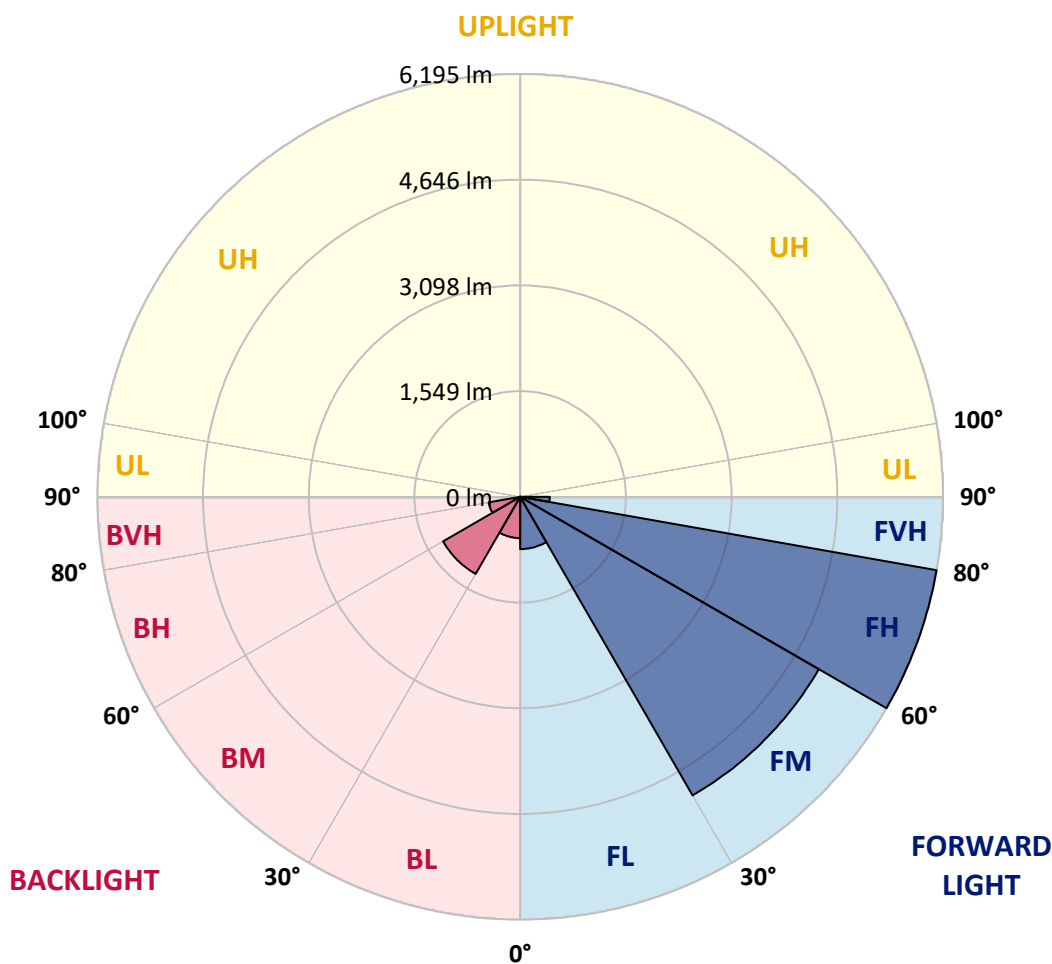
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.0	5.2			
FM	(30°-60°)	5050.9	34.0			
FH	(60°-80°)	6195.3	41.8			G3/7500
FVH	(80°-90°)	433.8	2.9			G3/500
BL	(0°-30°)	605.6	4.1	B2/1000		
BM	(30°-60°)	1305.6	8.8	B2/2500		
BH	(60°-80°)	469.2	3.2	B1/500		G1/500
BVH	(80°-90°)	12.7	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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1647.1	1663.1	1661.3	1659.5	1659.5	1657.7	1647.1	1636.4	1641.8	1640.0	1638.2
5°	1654.2	1670.2	1668.4	1666.6	1666.6	1668.4	1652.4	1640.0	1643.5	1647.1	1645.3
7.5°	1657.7	1671.9	1668.4	1666.6	1664.8	1670.2	1657.7	1659.5	1663.1	1663.1	1663.1
10°	1663.1	1673.7	1673.7	1675.5	1677.3	1682.6	1677.3	1682.6	1696.8	1693.2	1702.1
12.5°	1648.9	1661.3	1666.6	1675.5	1684.4	1687.9	1693.2	1707.4	1725.2	1734.1	1742.9
15°	1643.5	1656.0	1664.8	1675.5	1689.7	1693.2	1707.4	1732.3	1753.6	1771.3	1790.8
17.5°	1661.3	1675.5	1687.9	1695.0	1702.1	1707.4	1721.6	1753.6	1790.8	1822.8	1851.2
20°	1695.0	1709.2	1723.4	1730.5	1735.8	1739.4	1750.0	1780.2	1828.1	1877.8	1918.6
22.5°	1734.1	1748.3	1764.2	1769.6	1782.0	1782.0	1783.8	1813.9	1872.5	1939.9	1989.6
25°	1776.7	1785.5	1799.7	1808.6	1826.3	1829.9	1835.2	1861.8	1934.6	2010.9	2089.0
27.5°	1826.3	1844.1	1858.3	1868.9	1904.4	1906.2	1902.7	1936.4	2007.4	2101.5	2211.5
30°	1916.9	1936.4	1950.6	1968.3	2014.5	2012.7	2035.8	2071.3	2112.1	2215.0	2362.4
32.5°	2060.6	2062.4	2069.5	2092.6	2158.2	2165.3	2209.7	2273.6	2355.3	2420.9	2577.1
35°	2323.3	2314.4	2293.1	2289.6	2334.0	2337.5	2424.5	2559.4	2736.9	2955.2	3196.6
37.5°	2630.4	2653.4	2628.6	2552.3	2559.4	2561.1	2664.1	2836.3	3166.4	3713.0	3942.0
40°	3169.9	3182.4	3027.9	2907.2	2864.6	2845.1	2898.4	3159.3	3581.7	4293.4	4454.9
42.5°	3645.6	3645.6	3501.8	3315.5	3207.2	3221.4	3205.4	3464.6	4007.7	4797.5	4856.1
45°	4121.3	4105.3	3973.9	3817.8	3627.8	3615.4	3574.6	3773.4	4399.9	5159.6	5161.3
47.5°	4565.0	4602.3	4405.2	4233.1	4039.6	4030.7	3958.0	4112.4	4776.2	5477.3	5429.3
50°	5031.8	5083.2	4836.5	4643.1	4433.6	4446.1	4385.7	4494.0	5150.7	5773.7	5686.7
52.5°	5695.6	5599.7	5305.1	5037.1	4820.6	4856.1	4793.9	4857.8	5539.4	6009.7	5828.7
55°	6407.3	6236.9	5992.0	5542.9	5228.8	5225.2	5179.1	5255.4	5931.6	6279.5	5990.2
57.5°	6788.9	6840.4	6783.6	6419.7	5912.1	5903.2	5626.4	5635.2	6291.9	6510.2	6215.6
60°	7223.7	7287.6	7411.9	7184.7	6930.9	6938.0	6247.6	6041.7	6671.8	6694.8	6233.4
62.5°	7454.5	7461.6	7747.3	7827.2	8033.1	8079.2	7555.6	6538.6	6923.8	6836.8	6263.5
65°	7046.3	7058.7	7608.9	8011.8	8698.7	8760.8	8535.4	7500.6	7111.9	6911.4	6235.1
67.5°	6291.9	6393.1	6794.2	7756.2	9192.1	9201.0	8746.6	8212.4	7177.6	6922.0	6098.5
70°	5273.2	5237.7	5745.3	6900.7	9115.8	9050.1	8654.3	8294.0	7129.7	6776.5	5475.5
72.5°	3910.1	3856.8	4380.4	5548.3	8223.0	8347.2	8240.7	7816.6	6948.6	6233.4	4444.3
75°	2676.5	2738.6	3209.0	4183.4	6829.7	7017.9	7488.2	7447.4	6181.9	5166.7	3042.1
77.5°	1831.7	1858.3	2261.2	3113.1	5413.4	5486.1	6265.3	6016.8	4545.5	3175.3	1015.2
80°	1192.7	1183.8	1545.9	2216.8	3968.6	3959.7	4474.5	3807.1	2449.3	1082.7	140.2
82.5°	665.6	704.6	926.5	1457.2	2681.8	2710.2	2793.7	2081.9	942.5	126.0	88.7
85°	374.5	390.5	532.5	825.3	1405.7	1476.7	1246.0	765.0	168.6	69.2	51.5
87.5°	88.7	85.2	170.4	315.9	234.3	253.8	120.7	35.5	17.7	12.4	12.4
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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1638.2	1634.7	1631.1	1624.0	1618.7	1602.7	1604.5	1615.1	1604.5	1622.2	1611.6
5°	1641.8	1636.4	1627.6	1606.3	1590.3	1577.9	1574.3	1572.5	1558.3	1574.3	1567.2
7.5°	1656.0	1650.6	1631.1	1608.0	1585.0	1547.7	1542.4	1535.3	1508.6	1519.3	1510.4
10°	1689.7	1682.6	1648.9	1616.9	1581.4	1531.7	1503.3	1482.0	1451.8	1455.4	1446.5
12.5°	1732.3	1725.2	1686.1	1632.9	1583.2	1514.0	1464.3	1423.5	1379.1	1379.1	1370.2
15°	1782.0	1774.9	1730.5	1668.4	1590.3	1499.8	1425.2	1359.6	1288.6	1279.7	1269.0
17.5°	1849.4	1838.8	1787.3	1707.4	1609.8	1487.3	1386.2	1288.6	1180.3	1146.6	1128.8
20°	1918.6	1906.2	1861.8	1762.5	1636.4	1474.9	1329.4	1196.3	1056.1	986.8	974.4
22.5°	2007.4	2003.8	1948.8	1810.4	1645.3	1448.3	1258.4	1093.3	905.2	809.3	789.8
25°	2112.1	2106.8	2021.6	1847.6	1634.7	1395.1	1157.2	946.0	734.8	639.0	617.7
27.5°	2236.3	2222.1	2083.7	1856.5	1604.5	1311.6	1027.7	756.1	543.1	461.5	445.5
30°	2367.7	2346.4	2149.4	1858.3	1544.1	1208.7	857.3	555.5	385.1	326.6	326.6
32.5°	2587.8	2515.0	2213.3	1833.4	1457.2	1061.4	653.2	374.5	269.8	246.7	246.7
35°	3059.9	2885.9	2314.4	1801.5	1343.6	878.6	443.7	253.8	225.4	225.4	223.6
37.5°	3768.1	3445.0	2486.6	1748.3	1189.2	653.2	292.9	209.4	214.8	214.8	214.8
40°	4220.7	3881.7	2720.9	1664.8	1011.7	443.7	209.4	198.8	202.3	205.9	205.9
42.5°	4643.1	4261.5	2955.2	1549.5	816.4	284.0	195.2	186.4	188.1	188.1	189.9
45°	4911.1	4543.7	3129.1	1427.0	601.7	202.3	191.7	175.7	170.4	170.4	173.9
47.5°	5159.6	4728.3	3205.4	1265.5	388.7	189.9	182.8	163.3	156.2	154.4	154.4
50°	5408.0	4918.2	3248.0	1073.8	243.2	182.8	168.6	149.1	142.0	140.2	140.2
52.5°	5518.1	4978.5	3152.2	857.3	181.0	175.7	158.0	136.7	126.0	126.0	126.0
55°	5633.5	5090.3	2990.7	614.1	172.2	163.3	145.5	122.5	113.6	117.1	117.1
57.5°	5761.2	5010.5	2818.5	399.3	170.4	147.3	129.6	110.0	102.9	106.5	108.3
60°	5722.2	5030.0	2571.8	268.0	163.3	134.9	117.1	97.6	92.3	92.3	92.3
62.5°	5722.2	4879.1	2167.1	204.1	149.1	124.2	108.3	90.5	81.6	78.1	74.5
65°	5571.3	4522.4	1583.2	177.5	133.1	115.4	97.6	79.9	69.2	63.9	62.1
67.5°	5115.2	3931.4	637.2	161.5	122.5	106.5	90.5	72.8	60.3	53.2	51.5
70°	4348.4	2901.9	182.8	143.8	124.2	99.4	85.2	63.9	53.2	44.4	42.6
72.5°	3223.2	1533.5	149.1	113.6	110.0	85.2	79.9	60.3	46.1	37.3	35.5
75°	1627.6	209.4	127.8	81.6	85.2	88.7	76.3	53.2	42.6	30.2	28.4
77.5°	168.6	124.2	111.8	55.0	60.3	62.1	65.7	49.7	37.3	24.8	23.1
80°	104.7	94.1	110.0	47.9	35.5	42.6	44.4	39.0	30.2	19.5	19.5
82.5°	74.5	79.9	81.6	30.2	26.6	24.8	23.1	23.1	26.6	17.7	17.7
85°	51.5	53.2	33.7	19.5	17.7	16.0	14.2	14.2	12.4	14.2	12.4
87.5°	12.4	10.6	10.6	10.6	8.9	8.9	7.1	7.1	7.1	7.1	8.9
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)