

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: P509382

Luminaire Tested: **VERD-CA2-80-760-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509382
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-CA2-80-760-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1100mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10846 lumens
Efficiency: N/A
Efficacy: 131.6 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

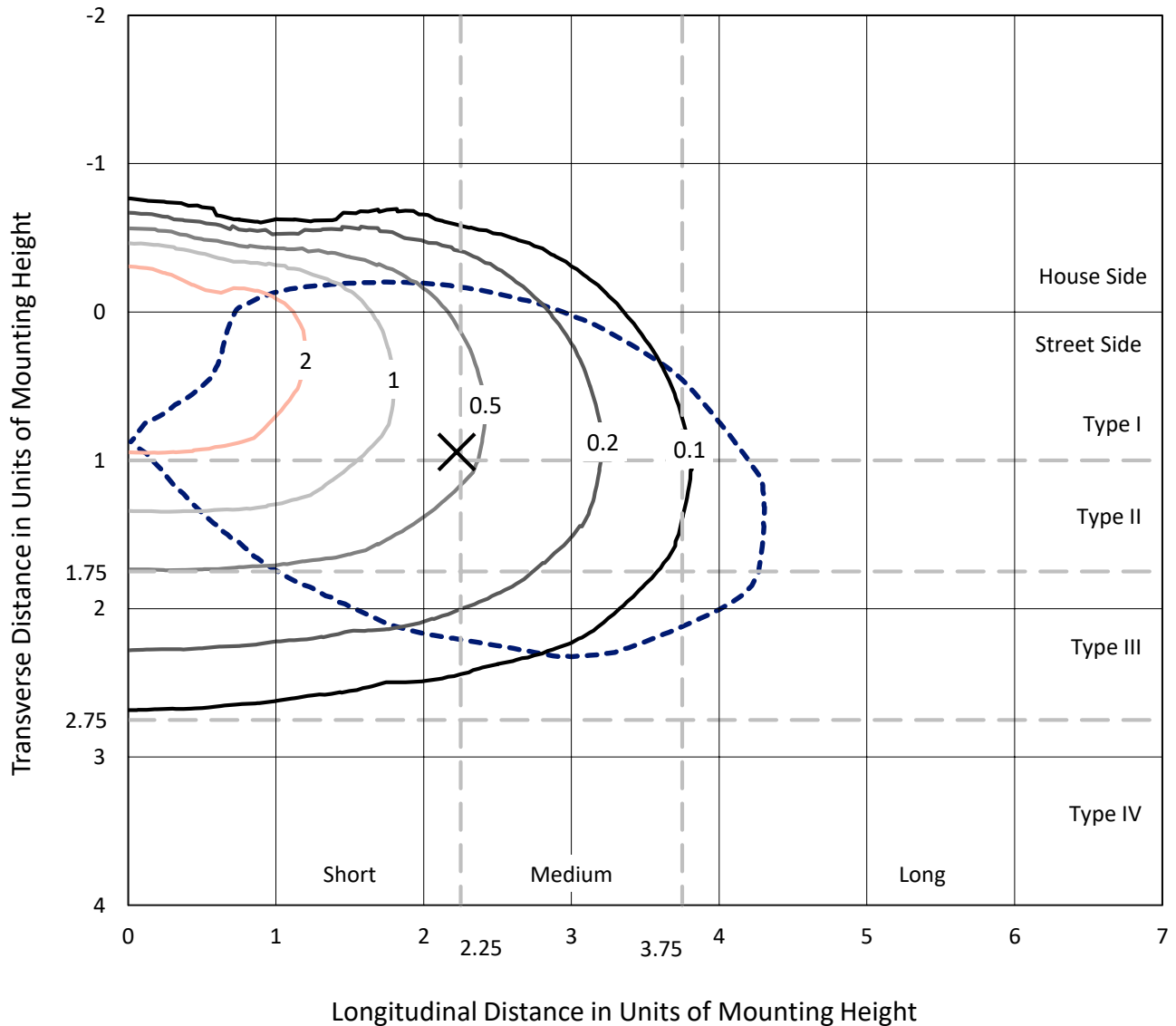
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

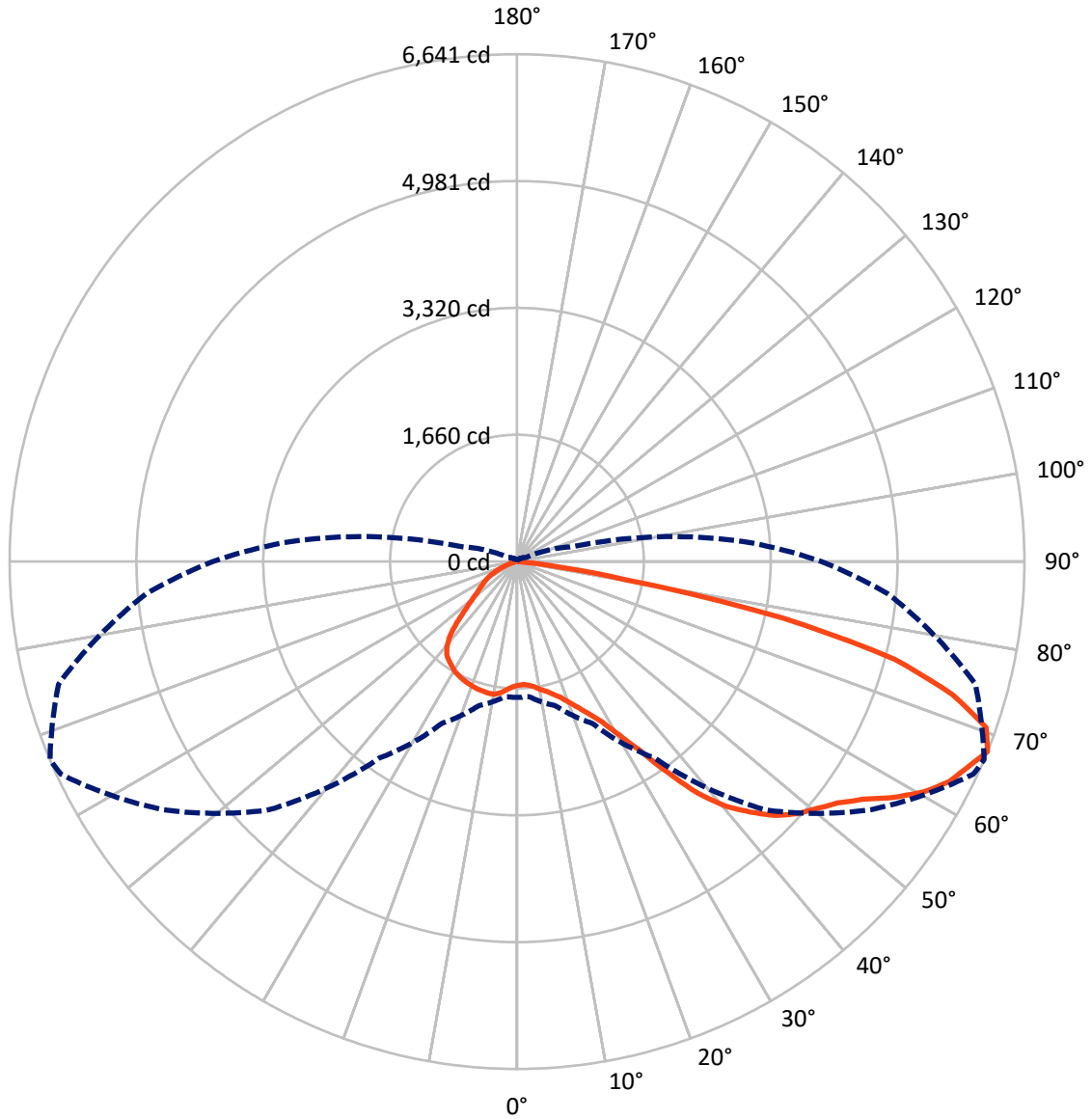
✕ Max cd
 - - - 1/2 Max cd



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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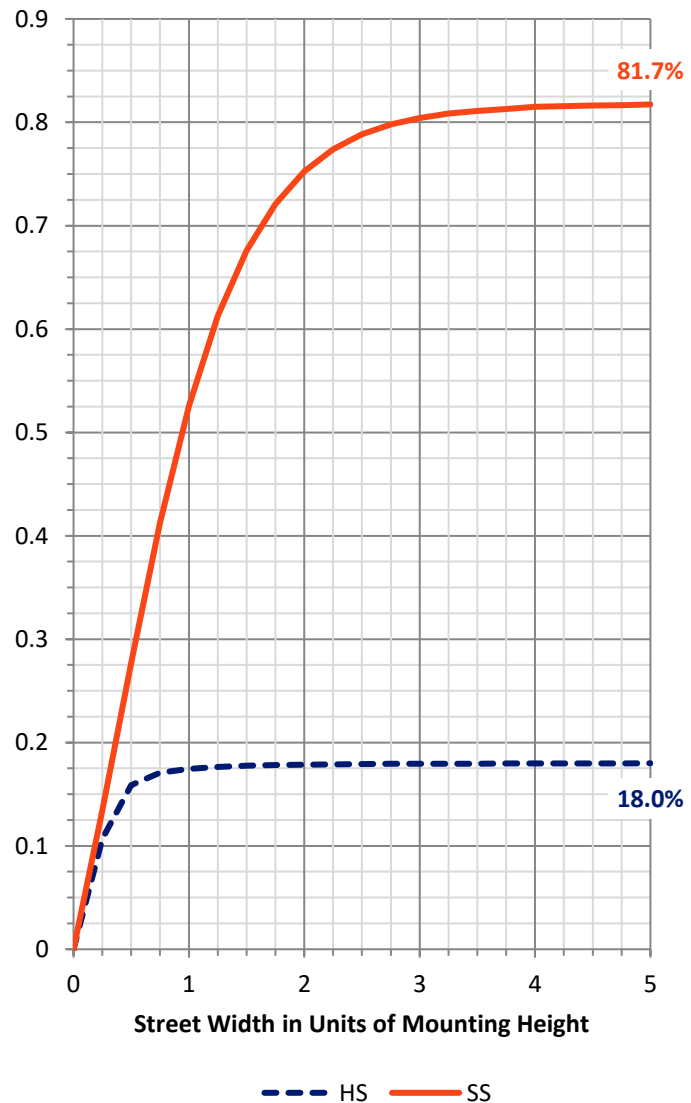
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.2	0.0	1976.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8869.8	0.0	8869.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	10846.0	0.0	10846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.5
10°-20°	508.1	4.7
20°-30°	867.1	8.0
30°-40°	1349.6	12.4
40°-50°	1905.2	17.6
50°-60°	2294.6	21.2
60°-70°	2371.4	21.9
70°-80°	1306.3	12.0
80°-90°	81.4	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°	10846.0	100.0
0°-180°	10846.0	100.0



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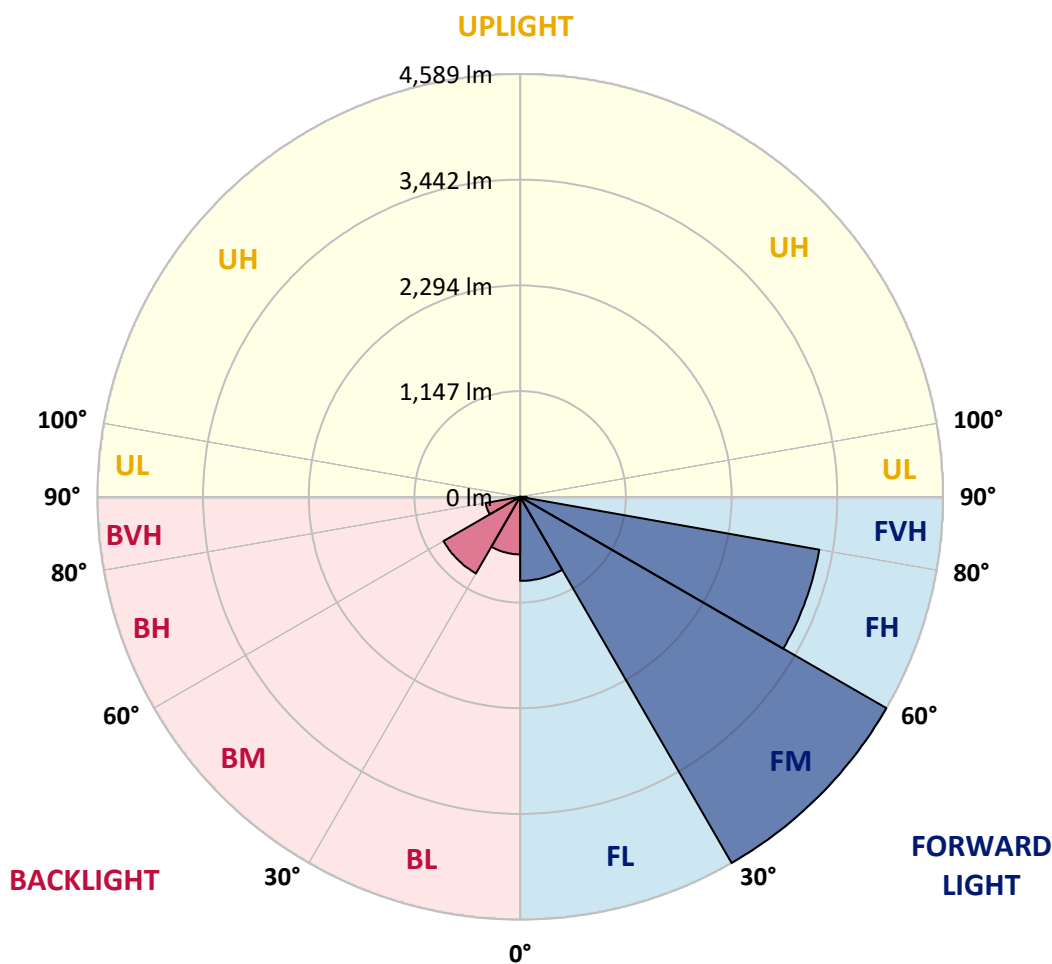
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.6	8.4			
FM (30°-60°)	4588.8	42.3			
FH (60°-80°)	3296.8	30.4			G2/5000
FVH (80°-90°)	71.6	0.7			G1/100
BL (0°-30°)	624.8	5.8	B2/1000		
BM (30°-60°)	960.7	8.9	B1/1000		
BH (60°-80°)	380.9	3.5	B1/500		G1/500
BVH (80°-90°)	9.8	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°	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4
2.5°	1604.4	1620.7	1620.7	1615.7	1618.2	1606.9	1599.3	1608.1	1610.6	1618.2	1628.2
5°	1635.8	1654.6	1653.3	1644.5	1637.0	1627.0	1616.9	1624.5	1625.7	1628.2	1640.8
7.5°	1702.3	1719.9	1712.3	1703.5	1699.8	1677.2	1655.8	1654.6	1657.1	1664.6	1678.4
10°	1788.9	1802.7	1800.2	1786.4	1776.4	1742.5	1712.3	1701.0	1702.3	1704.8	1728.6
12.5°	1886.8	1905.7	1891.8	1873.0	1855.4	1806.5	1765.1	1748.7	1746.2	1752.5	1772.6
15°	1983.5	2003.6	1993.5	1982.2	1942.1	1888.1	1835.4	1809.0	1806.5	1806.5	1819.0
17.5°	2110.3	2117.8	2111.5	2095.2	2050.0	1982.2	1919.5	1880.5	1874.3	1878.0	1880.5
20°	2250.9	2264.7	2257.2	2239.6	2174.3	2101.5	2022.4	1976.0	1972.2	1976.0	1952.1
22.5°	2421.6	2426.6	2422.9	2394.0	2335.0	2238.3	2134.1	2081.4	2081.4	2085.2	2036.2
25°	2567.2	2597.4	2588.6	2553.4	2484.4	2400.3	2274.7	2209.5	2213.2	2215.7	2147.9
27.5°	2736.7	2761.8	2755.5	2729.2	2684.0	2577.3	2426.6	2384.0	2380.2	2376.4	2271.0
30°	2898.7	2917.5	2930.0	2923.8	2887.4	2786.9	2652.6	2621.2	2631.3	2623.7	2441.7
32.5°	3030.5	3063.1	3098.3	3105.8	3095.7	3006.6	2908.7	2925.0	2937.6	3026.7	2917.5
35°	3143.5	3178.6	3236.4	3296.6	3307.9	3272.8	3223.8	3343.1	3379.5	3561.5	3446.0
37.5°	3261.5	3291.6	3349.3	3444.7	3507.5	3526.3	3574.0	3762.4	3850.2	4007.2	3792.5
40°	3315.4	3345.6	3446.0	3566.5	3697.1	3802.5	3897.9	4116.4	4214.3	4262.0	3983.3
42.5°	3261.5	3290.3	3452.3	3679.5	3856.5	4090.0	4198.0	4416.4	4481.7	4476.7	4218.1
45°	3208.7	3236.4	3405.8	3708.4	4000.9	4354.9	4446.5	4691.3	4739.0	4678.8	4353.6
47.5°	3140.9	3178.6	3354.4	3690.8	4130.2	4594.7	4678.8	4887.2	4929.8	4840.7	4509.3
50°	3058.1	3090.7	3295.4	3663.2	4215.5	4774.2	4863.3	5070.5	5081.7	4998.9	4649.9
52.5°	2962.7	2980.3	3202.5	3607.9	4289.6	4906.0	5007.7	5224.9	5251.2	5228.6	4816.9
55°	2820.8	2852.2	3090.7	3521.3	4294.6	4975.0	5119.4	5443.3	5491.0	5438.3	4918.6
57.5°	2671.4	2705.3	2952.6	3400.8	4220.6	5019.0	5322.8	5727.0	5821.2	5651.7	5001.4
60°	2507.0	2537.1	2780.7	3222.5	4088.7	5081.7	5532.4	6059.7	6118.7	5833.7	5056.6
62.5°	2316.2	2340.0	2572.3	3006.6	3886.6	5065.4	5713.2	6327.1	6345.9	5996.9	5051.6
65°	2083.9	2082.7	2298.6	2705.3	3555.2	4934.9	5745.8	6461.4	6484.0	6102.4	5006.4
67.5°	1777.6	1773.8	1954.6	2337.5	3137.2	4594.7	5659.2	6586.9	6640.9	6212.8	4874.6
70°	1393.5	1398.5	1535.3	1876.8	2545.9	4076.2	5430.7	6502.8	6514.1	6000.7	4533.2
72.5°	985.5	983.0	1075.9	1306.8	1881.8	3182.4	4772.9	5929.1	5964.3	5475.9	3949.4
75°	451.9	470.8	703.0	798.4	1136.1	2166.8	3926.8	5037.8	5105.6	4713.9	3079.4
77.5°	84.1	86.6	150.6	303.8	444.4	782.1	2346.3	3412.1	3554.0	3212.5	1734.9
80°	66.5	67.8	89.1	145.6	185.8	351.5	772.1	1406.0	1437.4	1252.9	625.2
82.5°	49.0	50.2	66.5	94.2	86.6	151.9	321.4	409.3	434.4	404.2	248.6
85°	28.9	30.1	38.9	46.4	45.2	60.3	54.0	49.0	43.9	36.4	31.4
87.5°	7.5	10.0	16.3	16.3	12.6	11.3	10.0	8.8	10.0	8.8	8.8
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°	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4	1619.4
2.5°	1630.7	1629.5	1633.2	1643.3	1652.1	1653.3	1665.9	1682.2	1674.7	1696.0	1688.5
5°	1648.3	1652.1	1665.9	1682.2	1697.3	1709.8	1728.6	1756.3	1747.5	1767.6	1760.0
7.5°	1688.5	1694.8	1716.1	1732.4	1750.0	1746.2	1762.5	1778.9	1758.8	1780.1	1770.1
10°	1736.2	1743.7	1756.3	1762.5	1757.5	1755.0	1751.2	1748.7	1722.4	1737.4	1731.2
12.5°	1778.9	1780.1	1776.4	1760.0	1748.7	1718.6	1704.8	1698.5	1658.3	1669.6	1662.1
15°	1820.3	1802.7	1783.9	1746.2	1714.8	1668.4	1638.3	1611.9	1574.2	1589.3	1574.2
17.5°	1865.5	1839.1	1790.2	1734.9	1670.9	1603.1	1554.2	1511.5	1455.0	1452.5	1447.4
20°	1923.2	1884.3	1805.2	1714.8	1623.2	1521.5	1443.7	1372.1	1286.8	1275.5	1252.9
22.5°	1996.0	1938.3	1827.8	1688.5	1564.2	1436.1	1304.3	1186.3	1078.4	1044.5	1031.9
25°	2080.2	2008.6	1840.4	1664.6	1507.7	1311.9	1132.3	979.2	852.4	816.0	805.9
27.5°	2185.6	2097.7	1859.2	1629.5	1417.3	1160.0	926.5	757.0	644.0	585.0	576.2
30°	2331.2	2196.9	1885.6	1594.3	1308.1	981.7	718.1	521.0	414.3	379.1	372.8
32.5°	2727.9	2432.9	1914.4	1531.6	1163.7	783.4	477.0	332.7	261.1	232.2	229.7
35°	3231.3	2864.8	2019.9	1460.0	989.2	543.6	296.3	198.3	159.4	148.1	148.1
37.5°	3556.5	3199.9	2195.6	1359.6	759.5	332.7	178.3	129.3	121.8	120.5	120.5
40°	3727.2	3348.1	2322.4	1221.5	508.4	193.3	125.5	111.7	109.2	106.7	106.7
42.5°	3944.4	3474.9	2431.7	1034.4	295.0	135.6	110.5	101.7	97.9	95.4	95.4
45°	4064.9	3613.0	2362.6	812.2	168.2	121.8	101.7	91.6	87.9	87.9	87.9
47.5°	4182.9	3744.8	2274.7	583.7	143.1	111.7	95.4	85.4	81.6	84.1	84.1
50°	4317.2	3833.9	2135.4	436.9	135.6	104.2	86.6	77.8	75.3	79.1	79.1
52.5°	4442.8	3842.7	1911.9	349.0	125.5	96.7	80.3	71.6	69.0	71.6	71.6
55°	4479.2	3815.1	1847.9	277.4	119.3	89.1	75.3	66.5	60.3	60.3	59.0
57.5°	4470.4	3761.1	1692.2	234.8	111.7	81.6	69.0	59.0	51.5	49.0	49.0
60°	4440.3	3685.8	1527.8	204.6	104.2	75.3	61.5	50.2	42.7	40.2	40.2
62.5°	4402.6	3543.9	1295.5	178.3	96.7	72.8	51.5	41.4	36.4	33.9	33.9
65°	4244.4	3323.0	1036.9	151.9	89.1	64.0	45.2	36.4	31.4	28.9	28.9
67.5°	3982.0	2986.5	749.5	129.3	82.9	54.0	40.2	31.4	26.4	25.1	23.9
70°	3590.4	2522.0	464.5	111.7	71.6	49.0	35.2	27.6	23.9	20.1	20.1
72.5°	2992.8	1974.7	243.5	87.9	56.5	41.4	31.4	25.1	20.1	17.6	16.3
75°	2104.0	1217.7	175.8	67.8	38.9	33.9	26.4	21.3	17.6	15.1	13.8
77.5°	1015.6	419.3	123.0	50.2	27.6	25.1	20.1	17.6	13.8	12.6	12.6
80°	371.6	238.5	87.9	36.4	22.6	20.1	15.1	13.8	11.3	10.0	10.0
82.5°	167.0	113.0	50.2	23.9	16.3	15.1	11.3	8.8	8.8	8.8	8.8
85°	27.6	23.9	16.3	11.3	8.8	7.5	7.5	6.3	6.3	6.3	6.3
87.5°	7.5	7.5	6.3	6.3	5.0	3.8	2.5	2.5	2.5	3.8	3.8
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)