

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: P507739

Luminaire Tested: **VERD-S-CA1-80-740-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-740-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1500mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10801 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1
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

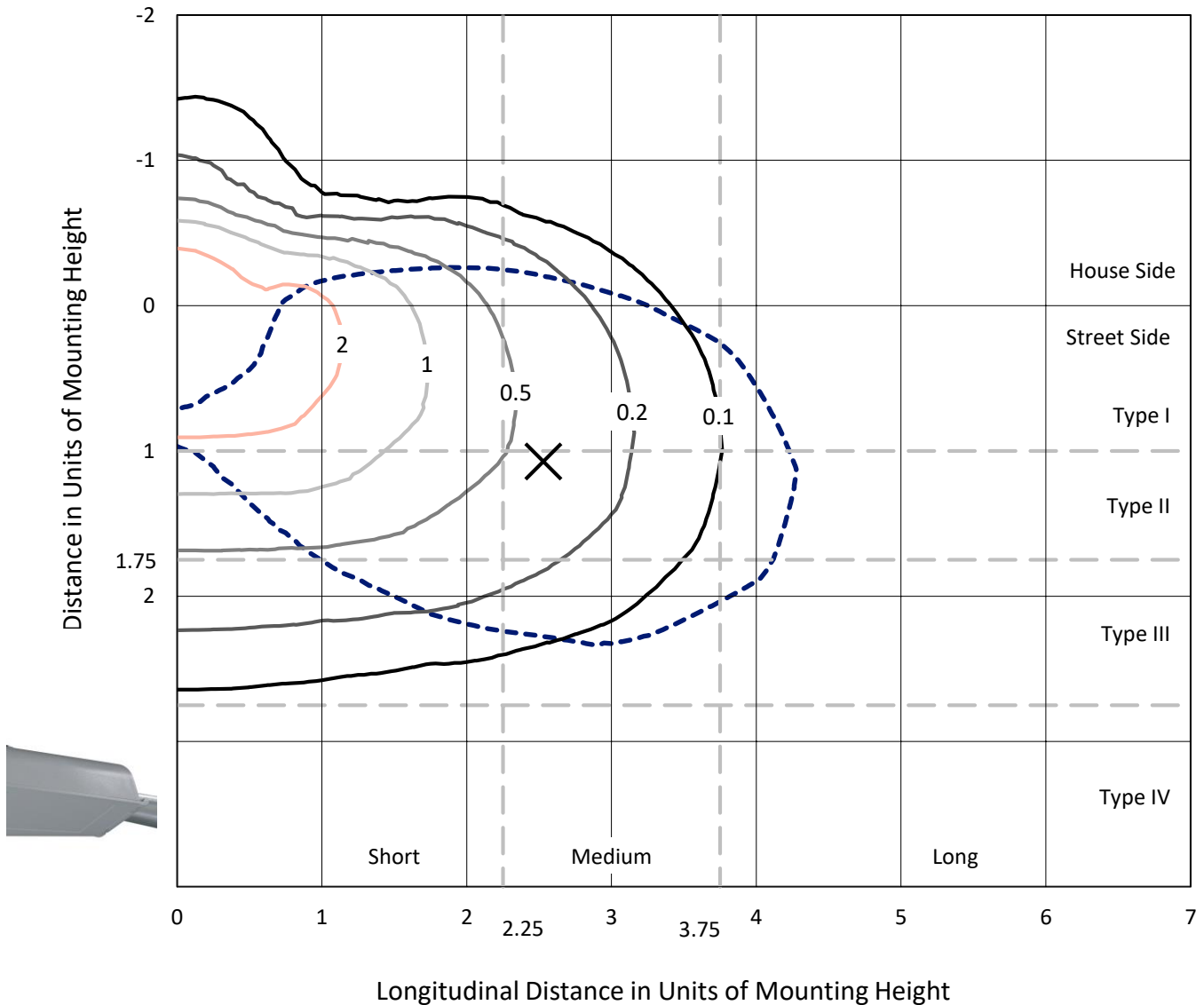


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Iso-Footcandle Lines of Horizontal Illumination

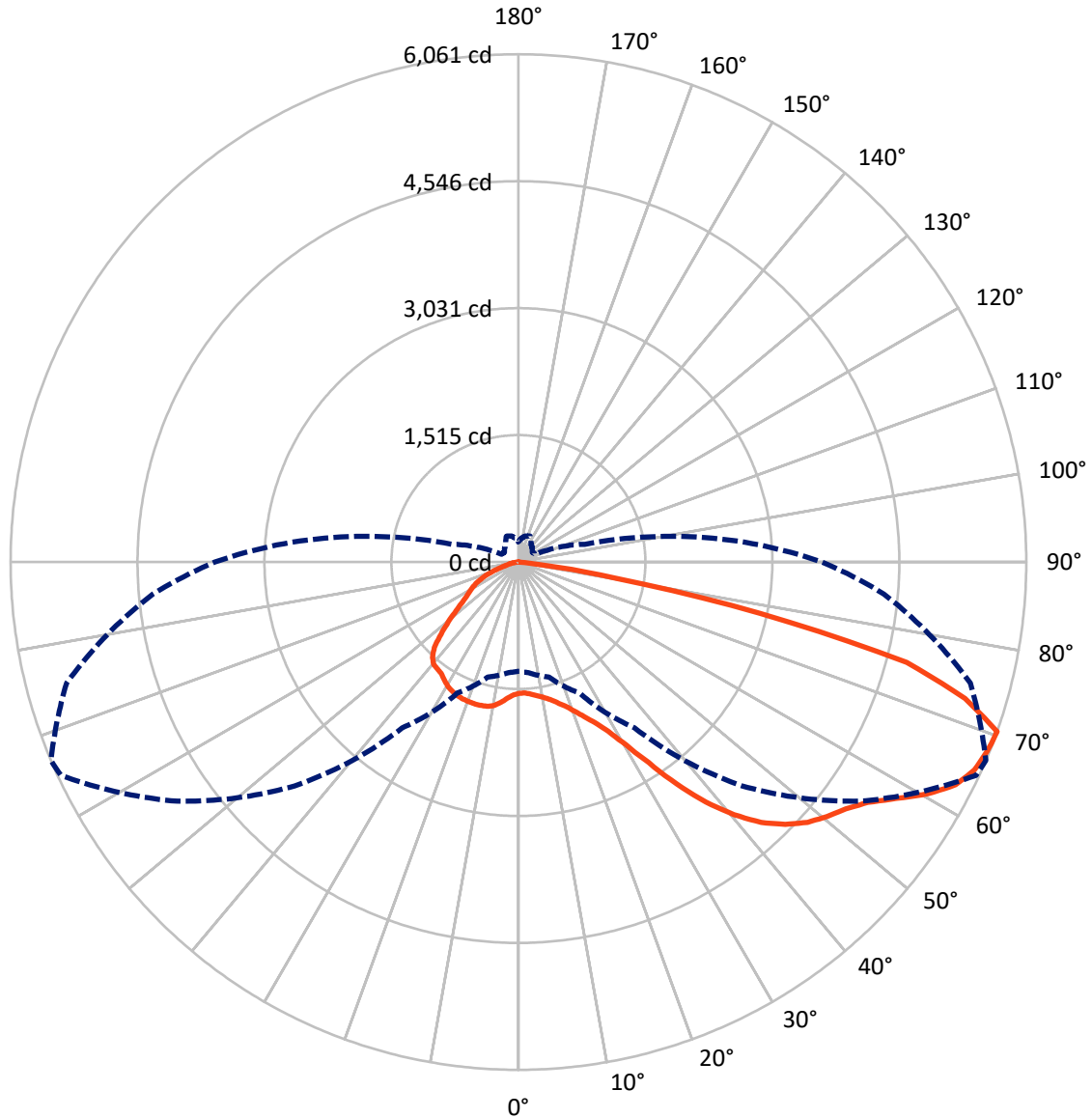
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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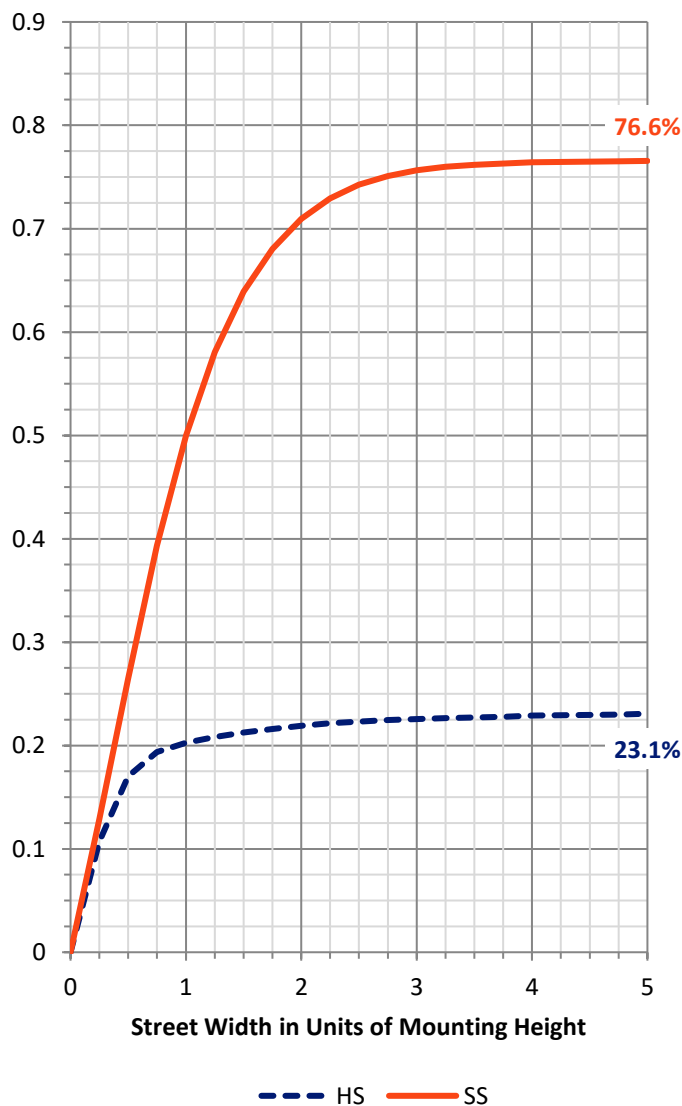
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2527.1	0.0	2527.1
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	8273.9	0.0	8273.9
	% Fixture	76.6	0.0	76.6
Total	Lumens	10801.0	0.0	10801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	1.5
10°-20°	512.0	4.7
20°-30°	903.0	8.4
30°-40°	1384.1	12.8
40°-50°	1886.7	17.5
50°-60°	2232.5	20.7
60°-70°	2327.5	21.5
70°-80°	1302.0	12.1
80°-90°	94.2	0.9
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°	10801.0	100.0
0°-180°	10801.0	100.0

Coefficient of Utilization



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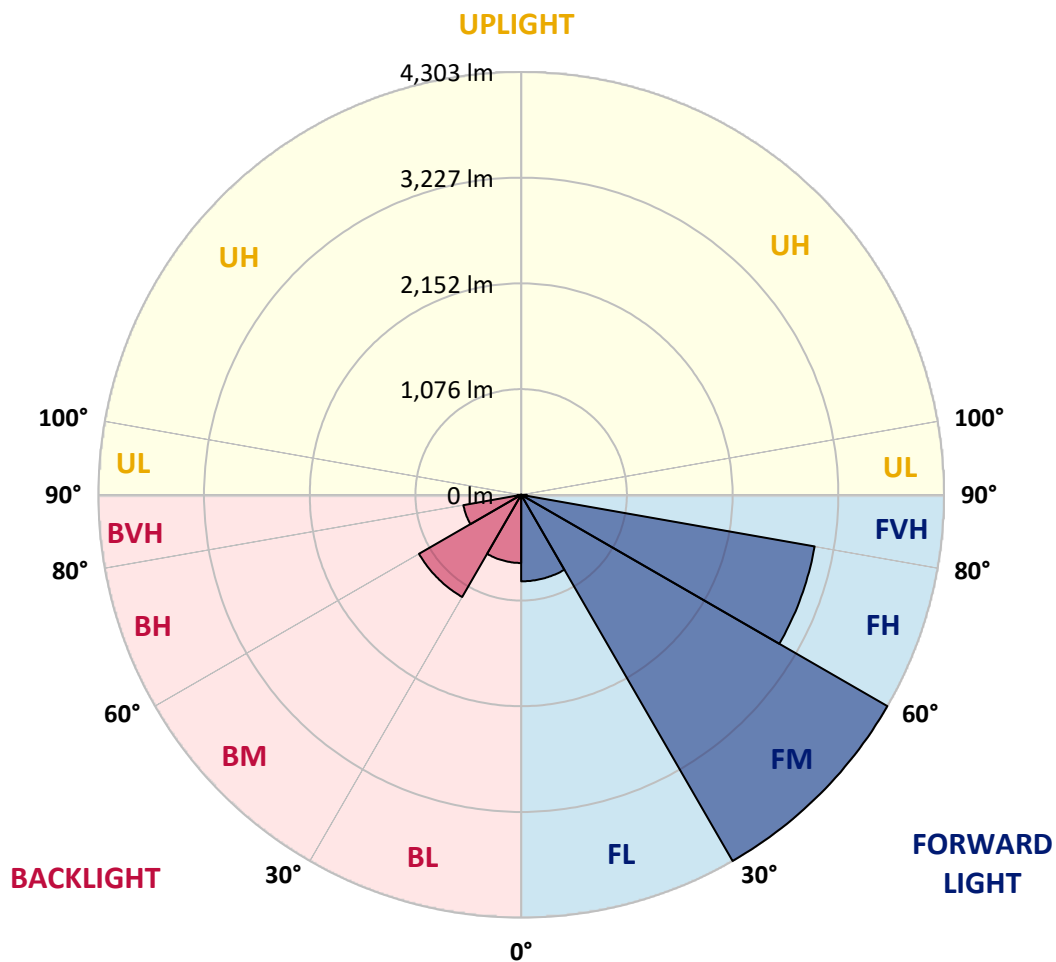
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.3	8.2			
FM (30°-60°)	4303.1	39.8			
FH (60°-80°)	3032.7	28.1			G2/5000
FVH (80°-90°)	57.7	0.5			G1/100
BL (0°-30°)	693.7	6.4	B2/1000		
BM (30°-60°)	1200.3	11.1	B2/2500		
BH (60°-80°)	596.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	36.5	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1572.8	1572.8	1572.8	1569.8	1569.8	1569.8	1566.7	1563.6	1563.6	1566.7	1566.7
5°	1612.7	1612.7	1609.6	1606.6	1600.4	1594.3	1588.2	1585.1	1585.1	1585.1	1588.2
7.5°	1667.9	1664.8	1658.7	1655.6	1646.4	1637.2	1625.0	1612.7	1612.7	1606.6	1612.7
10°	1735.3	1735.3	1726.1	1720.0	1707.7	1683.2	1664.8	1646.4	1643.3	1637.2	1646.4
12.5°	1821.2	1821.2	1815.0	1799.7	1781.3	1750.7	1716.9	1686.3	1683.2	1674.0	1692.4
15°	1925.4	1916.2	1913.2	1900.9	1867.2	1827.3	1781.3	1741.5	1741.5	1726.1	1747.6
17.5°	2041.9	2038.9	2035.8	2020.5	1980.6	1922.3	1861.0	1815.0	1805.8	1796.6	1808.9
20°	2183.0	2179.9	2176.8	2152.3	2106.3	2035.8	1962.2	1900.9	1894.8	1885.6	1876.4
22.5°	2345.5	2345.5	2333.2	2314.8	2250.4	2167.6	2078.7	2002.1	2002.1	1992.9	1949.9
25°	2501.8	2495.7	2489.6	2468.1	2416.0	2327.1	2222.8	2133.9	2121.6	2121.6	2048.1
27.5°	2645.9	2645.9	2655.1	2642.8	2590.7	2498.7	2394.5	2293.3	2287.2	2274.9	2161.5
30°	2796.1	2802.3	2805.3	2805.3	2780.8	2710.3	2596.9	2520.2	2532.5	2501.8	2330.1
32.5°	2909.6	2915.7	2955.6	2992.4	2970.9	2931.0	2866.7	2842.1	2854.4	2878.9	2691.9
35°	3016.9	3026.1	3081.3	3157.9	3191.7	3173.3	3182.5	3225.4	3253.0	3351.1	3188.6
37.5°	3096.6	3105.8	3154.9	3249.9	3351.1	3403.2	3489.0	3584.1	3636.2	3761.9	3528.9
40°	3118.1	3133.4	3234.6	3363.3	3516.6	3673.0	3777.2	3899.9	3964.3	4022.5	3758.9
42.5°	3044.5	3059.8	3191.7	3461.5	3676.1	3915.2	4028.7	4197.3	4249.4	4215.7	3936.7
45°	2998.5	3007.7	3142.6	3452.3	3814.0	4148.2	4258.6	4436.4	4467.1	4384.3	4090.0
47.5°	2934.1	2943.3	3087.4	3436.9	3924.4	4350.6	4427.2	4602.0	4641.8	4525.3	4206.5
50°	2839.1	2851.3	3016.9	3409.3	3998.0	4488.5	4571.3	4752.2	4773.7	4651.0	4329.1
52.5°	2725.6	2744.0	2918.8	3351.1	4047.1	4577.5	4684.8	4871.8	4893.3	4813.5	4461.0
55°	2587.7	2606.1	2793.1	3265.2	4031.7	4605.1	4733.8	5025.1	5061.9	4997.5	4574.4
57.5°	2452.8	2465.0	2658.2	3139.5	3945.9	4648.0	4881.0	5273.4	5322.5	5187.6	4666.4
60°	2290.3	2317.9	2504.9	2967.8	3814.0	4690.9	5071.1	5570.8	5616.8	5371.5	4736.9
62.5°	2121.6	2146.2	2311.7	2753.2	3608.6	4651.0	5215.2	5828.4	5856.0	5518.7	4761.4
65°	1925.4	1928.5	2081.8	2480.4	3314.3	4488.5	5227.4	5954.1	5981.7	5610.7	4718.5
67.5°	1664.8	1664.8	1793.6	2133.9	2918.8	4194.2	5117.1	5993.9	6033.8	5672.0	4614.3
70°	1303.0	1324.5	1422.6	1726.1	2416.0	3777.2	4976.0	6024.6	6061.4	5583.1	4378.2
72.5°	910.6	904.5	1005.6	1189.6	1747.6	3013.8	4439.5	5573.9	5573.9	5129.3	3945.9
75°	279.0	312.7	358.7	481.4	797.1	2020.5	3636.2	4724.6	4785.9	4442.6	3253.0
77.5°	92.0	92.0	107.3	131.8	171.7	429.2	1818.1	2894.3	2943.3	2891.2	2014.3
80°	73.6	73.6	82.8	95.0	110.4	220.7	640.8	1085.3	1165.1	1284.6	833.9
82.5°	52.1	52.1	55.2	58.3	55.2	88.9	168.6	288.2	294.3	318.9	269.8
85°	33.7	30.7	30.7	27.6	24.5	24.5	21.5	21.5	24.5	24.5	30.7
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	9.2	9.2	9.2	9.2
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°	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1569.8	1572.8	1582.0	1588.2	1594.3	1600.4	1603.5	1606.6	1606.6	1609.6	1609.6
5°	1591.2	1597.4	1612.7	1628.0	1652.5	1677.1	1698.5	1710.8	1713.9	1726.1	1726.1
7.5°	1618.8	1628.0	1664.8	1692.4	1729.2	1756.8	1781.3	1793.6	1805.8	1812.0	1812.0
10°	1661.7	1674.0	1710.8	1741.5	1772.1	1793.6	1808.9	1818.1	1821.2	1824.2	1824.2
12.5°	1704.7	1720.0	1741.5	1766.0	1784.4	1796.6	1805.8	1808.9	1808.9	1808.9	1808.9
15°	1750.7	1756.8	1762.9	1769.1	1778.3	1781.3	1781.3	1778.3	1772.1	1769.1	1769.1
17.5°	1796.6	1790.5	1781.3	1769.1	1756.8	1747.6	1735.3	1723.1	1713.9	1707.7	1710.8
20°	1851.8	1833.4	1793.6	1762.9	1729.2	1695.5	1667.9	1643.3	1625.0	1621.9	1625.0
22.5°	1916.2	1879.4	1815.0	1750.7	1692.4	1631.1	1572.8	1539.1	1520.7	1505.4	1505.4
25°	1992.9	1934.6	1833.4	1732.3	1640.3	1542.2	1462.5	1410.3	1379.7	1361.3	1367.4
27.5°	2081.8	2008.2	1851.8	1704.7	1563.6	1434.9	1330.6	1247.8	1214.1	1189.6	1192.7
30°	2210.5	2094.0	1873.3	1664.8	1465.5	1303.0	1165.1	1067.0	1008.7	990.3	996.4
32.5°	2498.7	2278.0	1897.8	1606.6	1355.1	1146.7	962.7	843.1	781.8	781.8	778.8
35°	2980.1	2661.2	1956.1	1536.0	1232.5	971.9	735.8	625.5	622.4	634.7	637.7
37.5°	3317.4	3013.8	2137.0	1468.6	1097.6	760.4	545.7	515.1	545.7	558.0	554.9
40°	3535.0	3225.4	2345.5	1398.1	907.5	545.7	432.3	410.8	441.5	466.0	484.4
42.5°	3712.9	3372.5	2440.5	1306.1	677.6	392.4	318.9	312.7	358.7	392.4	404.7
45°	3853.9	3507.4	2452.8	1177.3	459.9	291.3	260.6	288.2	343.4	371.0	374.0
47.5°	3967.3	3617.8	2419.0	971.9	306.6	254.5	254.5	291.3	343.4	371.0	371.0
50°	4077.7	3709.8	2333.2	791.0	275.9	248.3	257.5	294.3	340.3	361.8	361.8
52.5°	4169.7	3771.1	2183.0	631.6	266.7	242.2	257.5	294.3	334.2	343.4	337.3
55°	4252.5	3795.6	2048.1	508.9	257.5	239.1	263.7	300.5	331.1	331.1	318.9
57.5°	4298.5	3737.4	1946.9	420.0	248.3	239.1	266.7	306.6	340.3	346.5	337.3
60°	4298.5	3654.6	1836.5	371.0	242.2	239.1	266.7	328.1	404.7	374.0	371.0
62.5°	4240.2	3565.7	1670.9	331.1	233.0	242.2	269.8	364.8	493.6	371.0	355.7
65°	4139.0	3394.0	1453.3	294.3	223.8	245.3	266.7	420.0	588.7	358.7	315.8
67.5°	3948.9	3121.1	1183.5	257.5	211.6	239.1	260.6	386.3	361.8	297.4	266.7
70°	3620.9	2713.4	821.7	223.8	202.4	233.0	260.6	340.3	321.9	272.9	239.1
72.5°	3133.4	2225.9	441.5	184.0	177.8	220.7	254.5	312.7	275.9	223.8	202.4
75°	2406.8	1582.0	269.8	144.1	147.2	196.2	236.1	297.4	263.7	214.6	187.0
77.5°	1388.9	732.8	193.2	107.3	104.2	156.4	211.6	275.9	257.5	208.5	180.9
80°	508.9	303.5	131.8	79.7	70.5	113.4	165.6	223.8	245.3	205.4	184.0
82.5°	217.7	162.5	85.8	55.2	52.1	64.4	101.2	156.4	205.4	165.6	153.3
85°	30.7	30.7	30.7	27.6	30.7	39.9	42.9	76.6	113.4	61.3	61.3
87.5°	12.3	12.3	12.3	12.3	15.3	15.3	12.3	12.3	9.2	9.2	9.2
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)