

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: P507747

Luminaire Tested: **VERD-S-CA1-80-750-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507747
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-CA1-80-750-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1500mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10999 lumens
Efficiency: N/A
Efficacy: 132.4 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

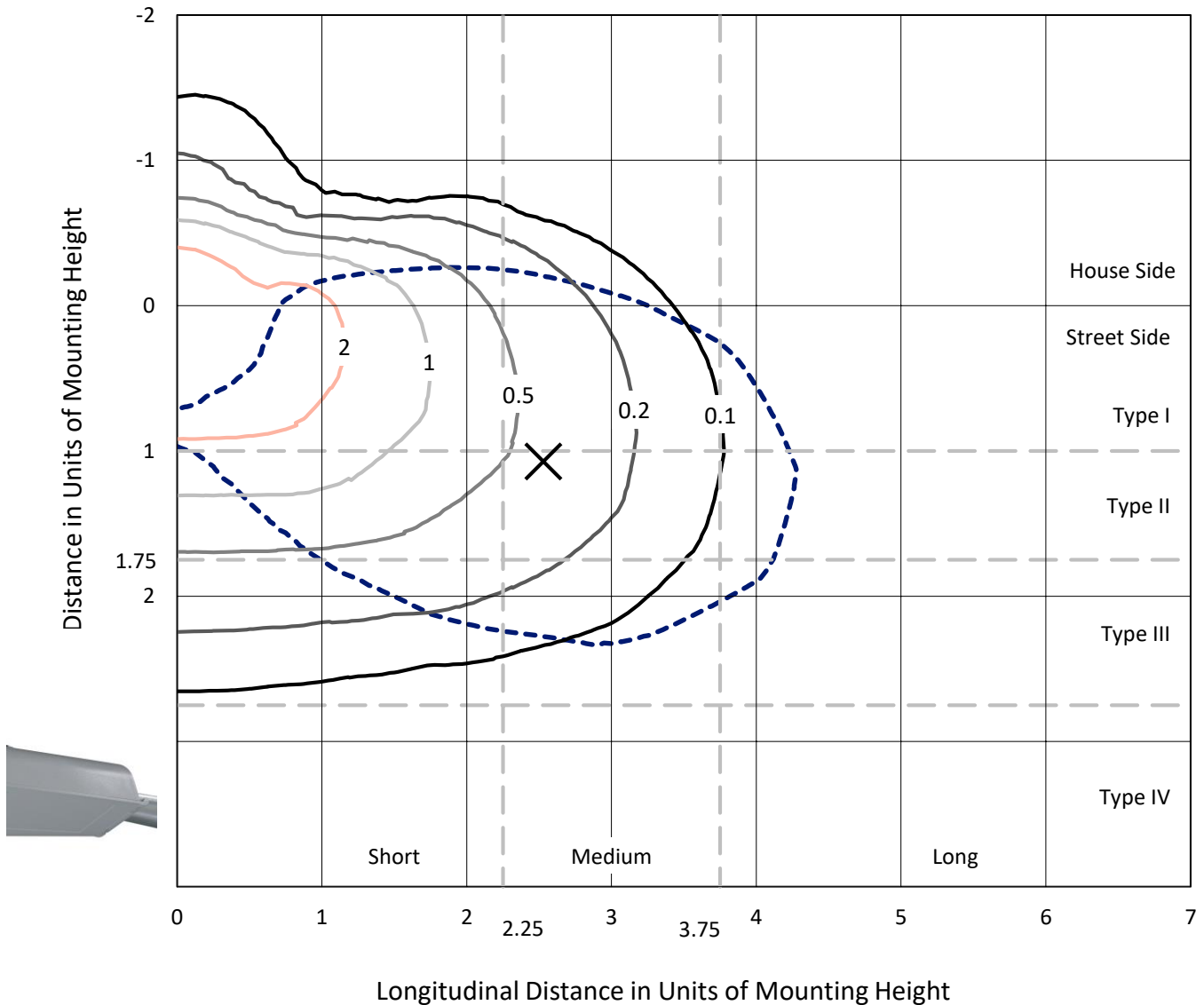


REPORT NUMBER: P507747

CATALOG NUMBER: VERD-S-CA1-80-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

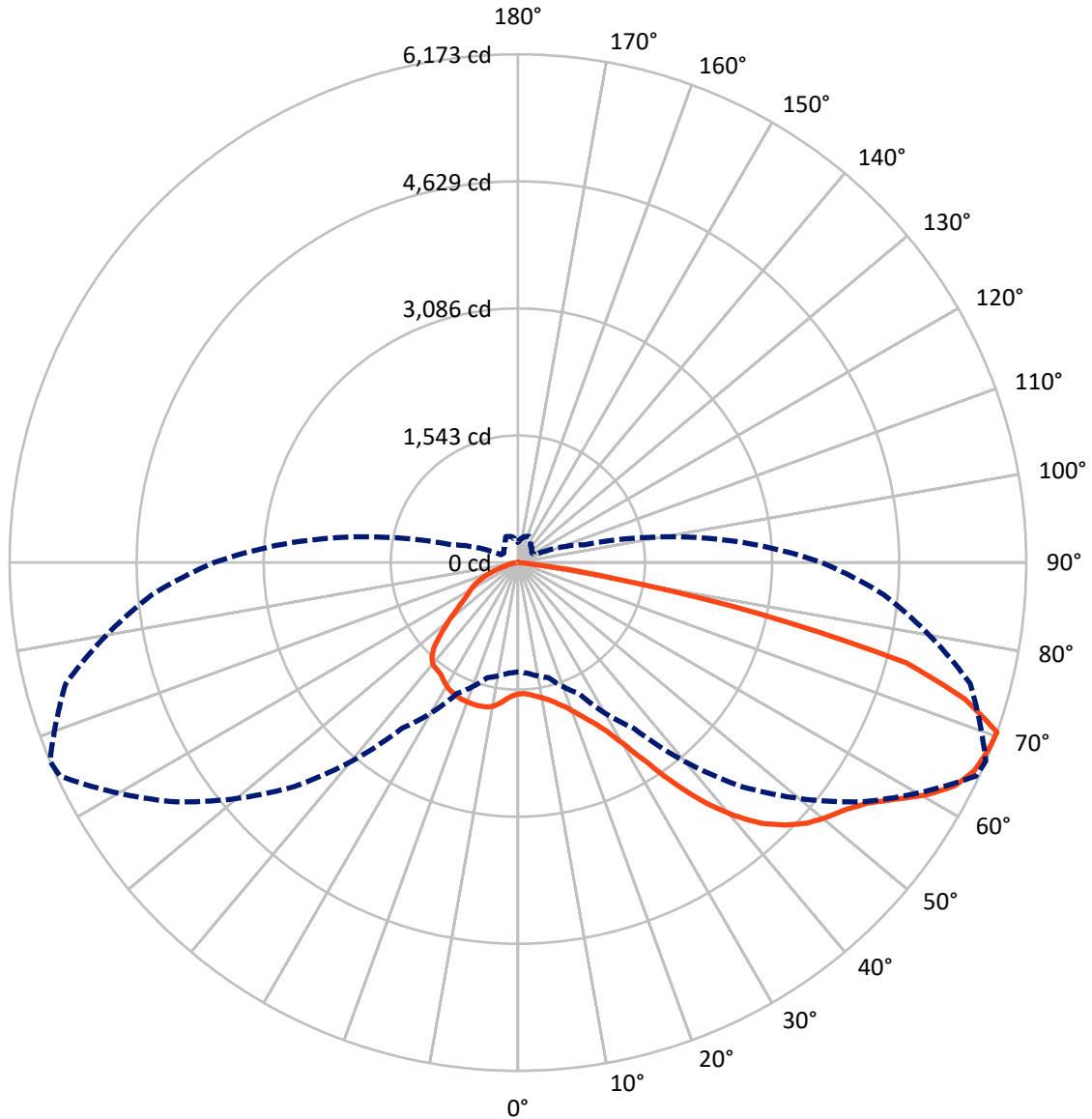
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507747
CATALOG NUMBER: VERD-S-CA1-80-750-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507747

CATALOG NUMBER: VERD-S-CA1-80-750-U-T3

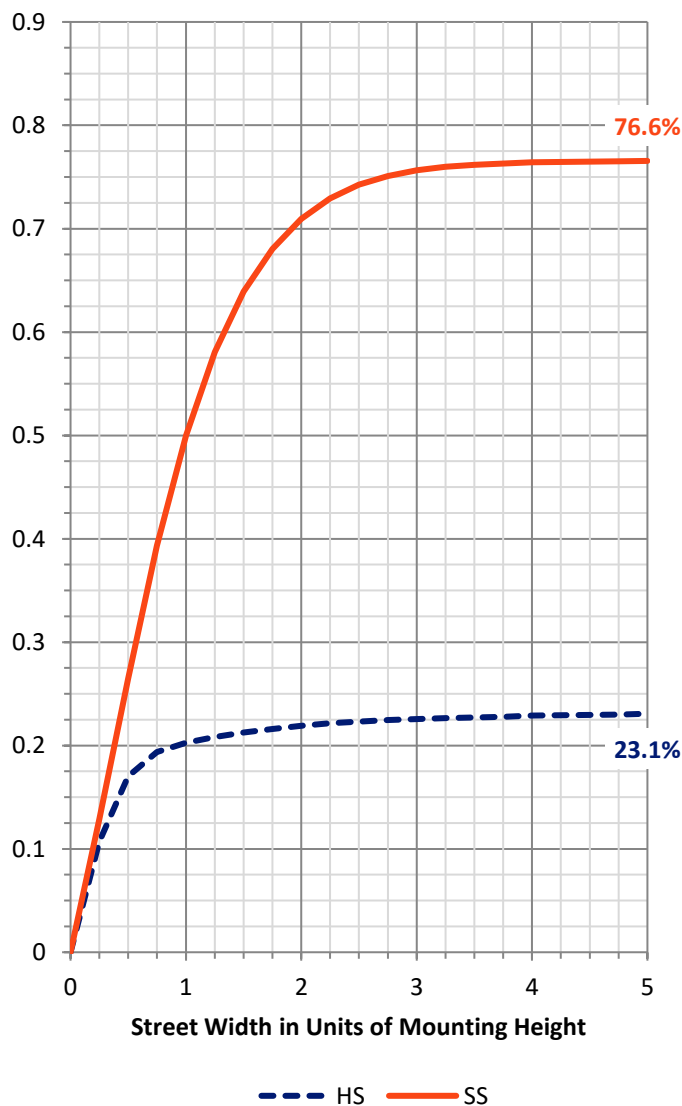
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2573.5	0.0	2573.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	8425.5	0.0	8425.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	10999.0	0.0	10999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.5
10°-20°	521.4	4.7
20°-30°	919.5	8.4
30°-40°	1409.5	12.8
40°-50°	1921.3	17.5
50°-60°	2273.5	20.7
60°-70°	2370.1	21.5
70°-80°	1325.8	12.1
80°-90°	95.9	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°	10999.0	100.0
0°-180°	10999.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507747

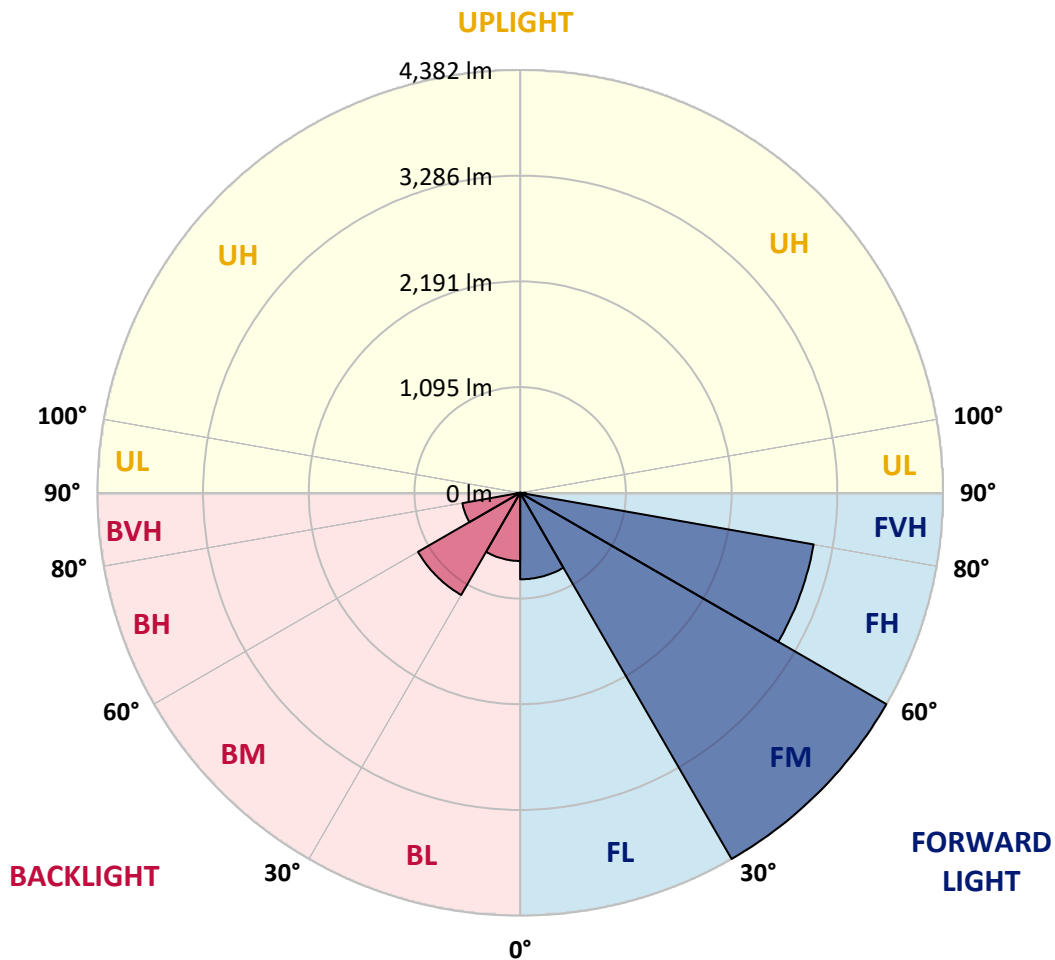
CATALOG NUMBER: VERD-S-CA1-80-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.5	8.2			
FM (30°-60°)	4382.0	39.8			
FH (60°-80°)	3088.3	28.1			G2/5000
FVH (80°-90°)	58.8	0.5			G1/100
BL (0°-30°)	706.4	6.4	B2/1000		
BM (30°-60°)	1222.3	11.1	B2/2500		
BH (60°-80°)	607.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	37.2	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





REPORT NUMBER: P507747

CATALOG NUMBER: VERD-S-CA1-80-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4
2.5°	1601.7	1601.7	1601.7	1598.5	1598.5	1598.5	1595.4	1592.3	1592.3	1595.4	1595.4
5°	1642.3	1642.3	1639.1	1636.0	1629.8	1623.5	1617.3	1614.2	1614.2	1614.2	1617.3
7.5°	1698.5	1695.3	1689.1	1686.0	1676.6	1667.2	1654.7	1642.3	1642.3	1636.0	1642.3
10°	1767.1	1767.1	1757.8	1751.5	1739.0	1714.1	1695.3	1676.6	1673.5	1667.2	1676.6
12.5°	1854.6	1854.6	1848.3	1832.7	1814.0	1782.7	1748.4	1717.2	1714.1	1704.7	1723.4
15°	1960.7	1951.3	1948.2	1935.7	1901.4	1860.8	1814.0	1773.4	1773.4	1757.8	1779.6
17.5°	2079.4	2076.2	2073.1	2057.5	2016.9	1957.6	1895.1	1848.3	1838.9	1829.6	1842.1
20°	2223.0	2219.9	2216.7	2191.8	2144.9	2073.1	1998.2	1935.7	1929.5	1920.1	1910.8
22.5°	2388.4	2388.4	2376.0	2357.2	2291.7	2207.4	2116.8	2038.8	2038.8	2029.4	1985.7
25°	2547.7	2541.4	2535.2	2513.3	2460.3	2369.7	2263.6	2173.0	2160.5	2160.5	2085.6
27.5°	2694.4	2694.4	2703.8	2691.3	2638.2	2544.6	2438.4	2335.4	2329.1	2316.6	2201.1
30°	2847.4	2853.6	2856.8	2856.8	2831.8	2760.0	2644.5	2566.4	2578.9	2547.7	2372.8
32.5°	2962.9	2969.2	3009.8	3047.2	3025.4	2984.8	2919.2	2894.2	2906.7	2931.7	2741.3
35°	3072.2	3081.6	3137.8	3215.8	3250.2	3231.4	3240.8	3284.5	3312.6	3412.5	3247.0
37.5°	3153.4	3162.7	3212.7	3309.5	3412.5	3465.6	3553.0	3649.8	3702.9	3830.9	3593.6
40°	3175.2	3190.8	3293.9	3425.0	3581.1	3740.3	3846.5	3971.4	4036.9	4096.3	3827.8
42.5°	3100.3	3115.9	3250.2	3524.9	3743.5	3987.0	4102.5	4274.2	4327.3	4293.0	4008.8
45°	3053.5	3062.8	3200.2	3515.5	3884.0	4224.3	4336.7	4517.8	4549.0	4464.7	4165.0
47.5°	2987.9	2997.3	3144.0	3499.9	3996.4	4430.3	4508.4	4686.4	4726.9	4608.3	4283.6
50°	2891.1	2903.6	3072.2	3471.8	4071.3	4570.8	4655.1	4839.3	4861.2	4736.3	4408.5
52.5°	2775.6	2794.3	2972.3	3412.5	4121.2	4661.4	4770.6	4961.1	4983.0	4901.8	4542.7
55°	2635.1	2653.8	2844.3	3325.1	4105.6	4689.5	4820.6	5117.2	5154.7	5089.1	4658.3
57.5°	2497.7	2510.2	2706.9	3197.1	4018.2	4733.2	4970.5	5370.1	5420.1	5282.7	4751.9
60°	2332.2	2360.3	2550.8	3022.2	3884.0	4776.9	5164.0	5673.0	5719.8	5470.0	4823.7
62.5°	2160.5	2185.5	2354.1	2803.7	3674.8	4736.3	5310.8	5935.2	5963.3	5619.9	4848.7
65°	1960.7	1963.8	2119.9	2525.8	3375.0	4570.8	5323.3	6063.2	6091.3	5713.5	4805.0
67.5°	1695.3	1695.3	1826.5	2173.0	2972.3	4271.1	5210.9	6103.8	6144.4	5776.0	4698.8
70°	1326.9	1348.8	1448.7	1757.8	2460.3	3846.5	5067.3	6135.0	6172.5	5685.4	4458.4
72.5°	927.3	921.0	1024.1	1211.4	1779.6	3069.1	4520.9	5676.1	5676.1	5223.4	4018.2
75°	284.1	318.5	365.3	490.2	811.8	2057.5	3702.9	4811.2	4873.7	4524.0	3312.6
77.5°	93.7	93.7	109.3	134.3	174.8	437.1	1851.4	2947.3	2997.3	2944.2	2051.3
80°	74.9	74.9	84.3	96.8	112.4	224.8	652.5	1105.2	1186.4	1308.2	849.2
82.5°	53.1	53.1	56.2	59.3	56.2	90.5	171.7	293.5	299.7	324.7	274.7
85°	34.3	31.2	31.2	28.1	25.0	25.0	21.9	21.9	25.0	25.0	31.2
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	9.4	9.4	9.4	9.4
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: P507747

CATALOG NUMBER: VERD-S-CA1-80-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4
2.5°	1598.5	1601.7	1611.0	1617.3	1623.5	1629.8	1632.9	1636.0	1636.0	1639.1	1639.1
5°	1620.4	1626.6	1642.3	1657.9	1682.8	1707.8	1729.7	1742.2	1745.3	1757.8	1757.8
7.5°	1648.5	1657.9	1695.3	1723.4	1760.9	1789.0	1814.0	1826.5	1838.9	1845.2	1845.2
10°	1692.2	1704.7	1742.2	1773.4	1804.6	1826.5	1842.1	1851.4	1854.6	1857.7	1857.7
12.5°	1735.9	1751.5	1773.4	1798.4	1817.1	1829.6	1838.9	1842.1	1842.1	1842.1	1842.1
15°	1782.7	1789.0	1795.2	1801.5	1810.8	1814.0	1814.0	1810.8	1804.6	1801.5	1801.5
17.5°	1829.6	1823.3	1814.0	1801.5	1789.0	1779.6	1767.1	1754.6	1745.3	1739.0	1742.2
20°	1885.8	1867.0	1826.5	1795.2	1760.9	1726.6	1698.5	1673.5	1654.7	1651.6	1654.7
22.5°	1951.3	1913.9	1848.3	1782.7	1723.4	1661.0	1601.7	1567.3	1548.6	1533.0	1533.0
25°	2029.4	1970.1	1867.0	1764.0	1670.4	1570.4	1489.3	1436.2	1405.0	1386.2	1392.5
27.5°	2119.9	2045.0	1885.8	1735.9	1592.3	1461.2	1355.0	1270.7	1236.4	1211.4	1214.5
30°	2251.1	2132.4	1907.6	1695.3	1492.4	1326.9	1186.4	1086.5	1027.2	1008.5	1014.7
32.5°	2544.6	2319.8	1932.6	1636.0	1380.0	1167.7	980.4	858.6	796.1	796.1	793.0
35°	3034.7	2710.0	1991.9	1564.2	1255.1	989.7	749.3	636.9	633.8	646.3	649.4
37.5°	3378.2	3069.1	2176.1	1495.5	1117.7	774.3	555.7	524.5	555.7	568.2	565.1
40°	3599.8	3284.5	2388.4	1423.7	924.2	555.7	440.2	418.4	449.6	474.6	493.3
42.5°	3780.9	3434.4	2485.2	1330.0	690.0	399.6	324.7	318.5	365.3	399.6	412.1
45°	3924.5	3571.7	2497.7	1198.9	468.3	296.6	265.4	293.5	349.7	377.8	380.9
47.5°	4040.1	3684.1	2463.4	989.7	312.2	259.1	259.1	296.6	349.7	377.8	377.8
50°	4152.5	3777.8	2376.0	805.5	281.0	252.9	262.3	299.7	346.6	368.4	368.4
52.5°	4246.1	3840.2	2223.0	643.2	271.6	246.7	262.3	299.7	340.3	349.7	343.4
55°	4330.4	3865.2	2085.6	518.3	262.3	243.5	268.5	306.0	337.2	337.2	324.7
57.5°	4377.3	3805.9	1982.6	427.7	252.9	243.5	271.6	312.2	346.6	352.8	343.4
60°	4377.3	3721.6	1870.2	377.8	246.7	243.5	271.6	334.1	412.1	380.9	377.8
62.5°	4317.9	3631.1	1701.6	337.2	237.3	246.7	274.7	371.5	502.7	377.8	362.2
65°	4214.9	3456.2	1479.9	299.7	227.9	249.8	271.6	427.7	599.5	365.3	321.6
67.5°	4021.3	3178.4	1205.2	262.3	215.4	243.5	265.4	393.4	368.4	302.8	271.6
70°	3687.3	2763.1	836.7	227.9	206.1	237.3	265.4	346.6	327.8	277.9	243.5
72.5°	3190.8	2266.7	449.6	187.3	181.1	224.8	259.1	318.5	281.0	227.9	206.1
75°	2450.9	1611.0	274.7	146.7	149.9	199.8	240.4	302.8	268.5	218.6	190.5
77.5°	1414.3	746.2	196.7	109.3	106.2	159.2	215.4	281.0	262.3	212.3	184.2
80°	518.3	309.1	134.3	81.2	71.8	115.5	168.6	227.9	249.8	209.2	187.3
82.5°	221.7	165.5	87.4	56.2	53.1	65.6	103.0	159.2	209.2	168.6	156.1
85°	31.2	31.2	31.2	28.1	31.2	40.6	43.7	78.1	115.5	62.4	62.4
87.5°	12.5	12.5	12.5	12.5	15.6	15.6	12.5	12.5	9.4	9.4	9.4
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)