

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: P507755

Luminaire Tested: **VERD-S-CA1-80-760-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507755
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-CA1-80-760-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1500mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10766 lumens
Efficiency: N/A
Efficacy: 129.6 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

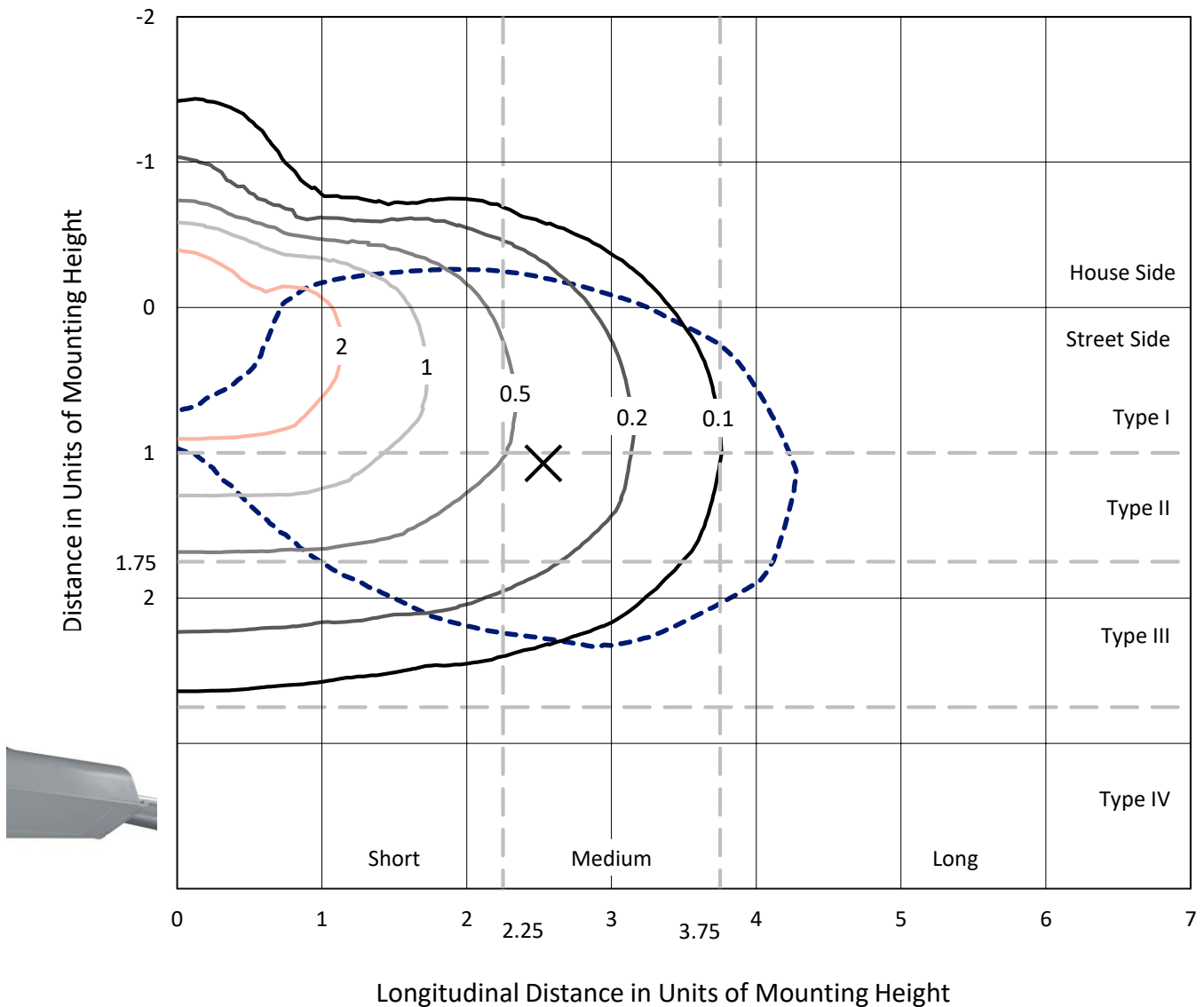


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Iso-Footcandle Lines of Horizontal Illumination

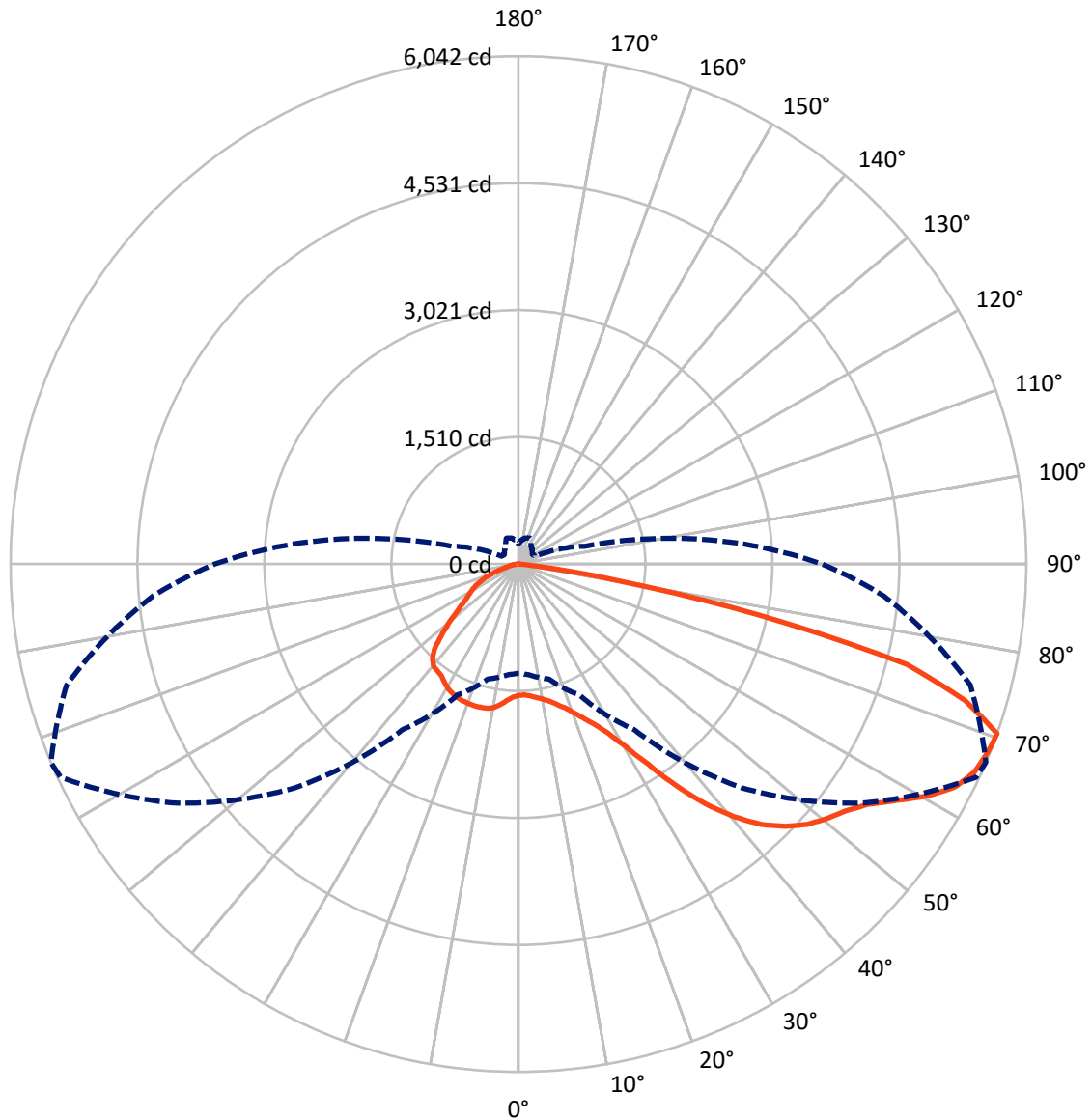
× Max cd
 - - - 1/2 Max cd



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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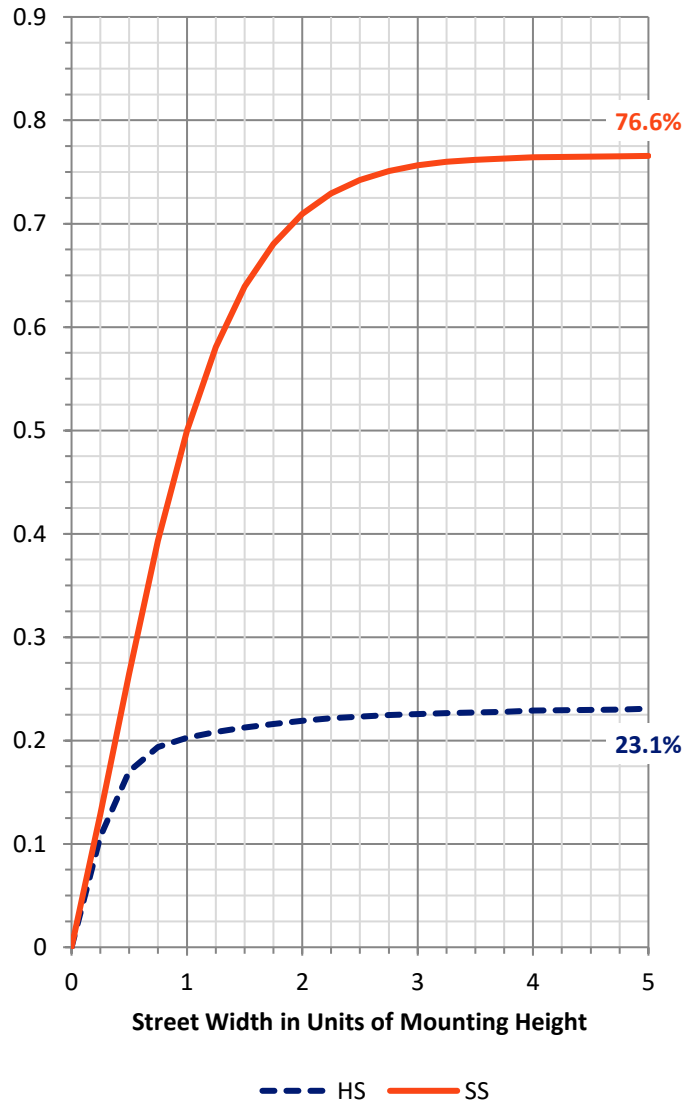
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.0	0.0	2519.0
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	8247.0	0.0	8247.0
	% Fixture	76.6	0.0	76.6
Total	Lumens	10766.0	0.0	10766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	1.5
10°-20°	510.3	4.7
20°-30°	900.0	8.4
30°-40°	1379.6	12.8
40°-50°	1880.6	17.5
50°-60°	2225.3	20.7
60°-70°	2319.9	21.5
70°-80°	1297.7	12.1
80°-90°	93.9	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°	10766.0	100.0
0°-180°	10766.0	100.0

Coefficient of Utilization



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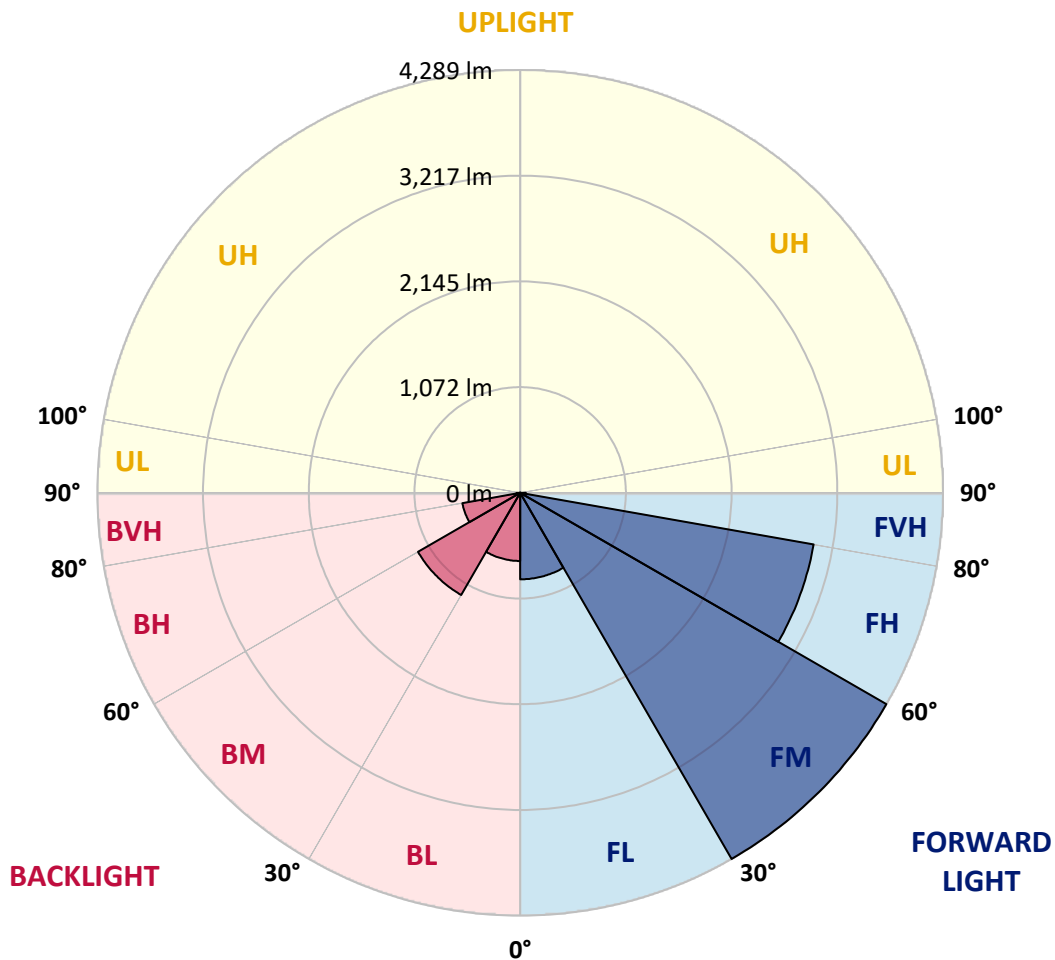
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.5	8.2			
FM	(30°-60°)	4289.1	39.8			
FH	(60°-80°)	3022.9	28.1			G2/5000
FVH	(80°-90°)	57.5	0.5			G1/100
BL	(0°-30°)	691.4	6.4	B2/1000		
BM	(30°-60°)	1196.4	11.1	B2/2500		
BH	(60°-80°)	594.8	5.5	B2/1000		G2/1000
BVH	(80°-90°)	36.4	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°	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1567.7	1567.7	1567.7	1564.7	1564.7	1564.7	1561.6	1558.6	1558.6	1561.6	1561.6
5°	1607.5	1607.5	1604.4	1601.4	1595.2	1589.1	1583.0	1580.0	1580.0	1580.0	1583.0
7.5°	1662.5	1659.4	1653.3	1650.2	1641.1	1631.9	1619.7	1607.5	1607.5	1601.4	1607.5
10°	1729.7	1729.7	1720.5	1714.4	1702.2	1677.8	1659.4	1641.1	1638.0	1631.9	1641.1
12.5°	1815.3	1815.3	1809.2	1793.9	1775.5	1745.0	1711.4	1680.8	1677.8	1668.6	1686.9
15°	1919.2	1910.0	1907.0	1894.7	1861.1	1821.4	1775.5	1735.8	1735.8	1720.5	1741.9
17.5°	2035.3	2032.2	2029.2	2013.9	1974.2	1916.1	1855.0	1809.2	1800.0	1790.8	1803.0
20°	2175.9	2172.8	2169.8	2145.3	2099.5	2029.2	1955.8	1894.7	1888.6	1879.4	1870.3
22.5°	2337.9	2337.9	2325.6	2307.3	2243.1	2160.6	2072.0	1995.6	1995.6	1986.4	1943.6
25°	2493.7	2487.6	2481.5	2460.1	2408.1	2319.5	2215.6	2127.0	2114.8	2114.8	2041.4
27.5°	2637.3	2637.3	2646.5	2634.3	2582.3	2490.7	2386.7	2285.9	2279.8	2267.6	2154.5
30°	2787.1	2793.2	2796.3	2796.3	2771.8	2701.5	2588.4	2512.0	2524.3	2493.7	2322.6
32.5°	2900.2	2906.3	2946.0	2982.7	2961.3	2921.5	2857.4	2832.9	2845.1	2869.6	2683.2
35°	3007.1	3016.3	3071.3	3147.7	3181.3	3163.0	3172.1	3214.9	3242.4	3340.2	3178.3
37.5°	3086.6	3095.7	3144.6	3239.4	3340.2	3392.2	3477.7	3572.5	3624.4	3749.7	3517.5
40°	3108.0	3123.2	3224.1	3352.4	3505.2	3661.1	3765.0	3887.2	3951.4	4009.5	3746.7
42.5°	3034.6	3049.9	3181.3	3450.2	3664.2	3902.5	4015.6	4183.7	4235.6	4202.0	3923.9
45°	2988.8	2997.9	3132.4	3441.1	3801.7	4134.8	4244.8	4422.1	4452.6	4370.1	4076.7
47.5°	2924.6	2933.8	3077.4	3425.8	3911.7	4336.5	4412.9	4587.1	4626.8	4510.7	4192.9
50°	2829.9	2842.1	3007.1	3398.3	3985.0	4474.0	4556.5	4736.8	4758.2	4636.0	4315.1
52.5°	2716.8	2735.1	2909.3	3340.2	4033.9	4562.6	4669.6	4856.0	4877.4	4797.9	4446.5
55°	2579.3	2597.6	2784.0	3254.7	4018.7	4590.1	4718.5	5008.8	5045.5	4981.3	4559.6
57.5°	2444.8	2457.0	2649.6	3129.4	3933.1	4632.9	4865.2	5256.3	5305.2	5170.8	4651.3
60°	2282.8	2310.3	2496.8	2958.2	3801.7	4675.7	5054.6	5552.8	5598.6	5354.1	4721.5
62.5°	2114.8	2139.2	2304.2	2744.3	3596.9	4636.0	5198.3	5809.5	5837.0	5500.8	4746.0
65°	1919.2	1922.2	2075.0	2472.3	3303.6	4474.0	5210.5	5934.8	5962.3	5592.5	4703.2
67.5°	1659.4	1659.4	1787.8	2127.0	2909.3	4180.6	5100.5	5974.5	6014.2	5653.6	4599.3
70°	1298.8	1320.2	1418.0	1720.5	2408.1	3765.0	4959.9	6005.1	6041.7	5565.0	4364.0
72.5°	907.6	901.5	1002.4	1185.7	1741.9	3004.1	4425.1	5555.8	5555.8	5112.7	3933.1
75°	278.1	311.7	357.6	479.8	794.6	2013.9	3624.4	4709.3	4770.4	4428.2	3242.4
77.5°	91.7	91.7	107.0	131.4	171.1	427.8	1812.2	2884.9	2933.8	2881.8	2007.8
80°	73.3	73.3	82.5	94.7	110.0	220.0	638.7	1081.8	1161.3	1280.5	831.2
82.5°	52.0	52.0	55.0	58.1	55.0	88.6	168.1	287.3	293.4	317.8	268.9
85°	33.6	30.6	30.6	27.5	24.4	24.4	21.4	21.4	24.4	24.4	30.6
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°	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1564.7	1567.7	1576.9	1583.0	1589.1	1595.2	1598.3	1601.4	1601.4	1604.4	1604.4
5°	1586.1	1592.2	1607.5	1622.7	1647.2	1671.6	1693.0	1705.3	1708.3	1720.5	1720.5
7.5°	1613.6	1622.7	1659.4	1686.9	1723.6	1751.1	1775.5	1787.8	1800.0	1806.1	1806.1
10°	1656.4	1668.6	1705.3	1735.8	1766.4	1787.8	1803.0	1812.2	1815.3	1818.3	1818.3
12.5°	1699.1	1714.4	1735.8	1760.3	1778.6	1790.8	1800.0	1803.0	1803.0	1803.0	1803.0
15°	1745.0	1751.1	1757.2	1763.3	1772.5	1775.5	1775.5	1772.5	1766.4	1763.3	1763.3
17.5°	1790.8	1784.7	1775.5	1763.3	1751.1	1741.9	1729.7	1717.5	1708.3	1702.2	1705.3
20°	1845.8	1827.5	1787.8	1757.2	1723.6	1690.0	1662.5	1638.0	1619.7	1616.6	1619.7
22.5°	1910.0	1873.3	1809.2	1745.0	1686.9	1625.8	1567.7	1534.1	1515.8	1500.5	1500.5
25°	1986.4	1928.3	1827.5	1726.6	1635.0	1537.2	1457.7	1405.8	1375.2	1356.9	1363.0
27.5°	2075.0	2001.7	1845.8	1699.1	1558.6	1430.2	1326.3	1243.8	1210.2	1185.7	1188.8
30°	2203.4	2087.3	1867.2	1659.4	1460.8	1298.8	1161.3	1063.5	1005.4	987.1	993.2
32.5°	2490.7	2270.6	1891.7	1601.4	1350.8	1142.9	959.6	840.4	779.3	779.3	776.2
35°	2970.4	2652.6	1949.7	1531.1	1228.5	968.8	733.4	623.4	620.4	632.6	635.7
37.5°	3306.6	3004.1	2130.0	1463.8	1094.1	757.9	544.0	513.4	544.0	556.2	553.1
40°	3523.6	3214.9	2337.9	1393.5	904.6	544.0	430.9	409.5	440.1	464.5	482.9
42.5°	3700.8	3361.6	2432.6	1301.9	675.4	391.2	317.8	311.7	357.6	391.2	403.4
45°	3841.4	3496.1	2444.8	1173.5	458.4	290.3	259.8	287.3	342.3	369.8	372.8
47.5°	3954.5	3606.1	2411.2	968.8	305.6	253.6	253.6	290.3	342.3	369.8	369.8
50°	4064.5	3697.8	2325.6	788.5	275.0	247.5	256.7	293.4	339.2	360.6	360.6
52.5°	4156.2	3758.9	2175.9	629.5	265.9	241.4	256.7	293.4	333.1	342.3	336.2
55°	4238.7	3783.3	2041.4	507.3	256.7	238.4	262.8	299.5	330.0	330.0	317.8
57.5°	4284.5	3725.3	1940.6	418.7	247.5	238.4	265.9	305.6	339.2	345.3	336.2
60°	4284.5	3642.8	1830.6	369.8	241.4	238.4	265.9	327.0	403.4	372.8	369.8
62.5°	4226.5	3554.1	1665.5	330.0	232.3	241.4	268.9	363.7	492.0	369.8	354.5
65°	4125.6	3383.0	1448.6	293.4	223.1	244.5	265.9	418.7	586.8	357.6	314.8
67.5°	3936.1	3111.0	1179.6	256.7	210.9	238.4	259.8	385.1	360.6	296.4	265.9
70°	3609.2	2704.6	819.0	223.1	201.7	232.3	259.8	339.2	320.9	272.0	238.4
72.5°	3123.2	2218.7	440.1	183.4	177.2	220.0	253.6	311.7	275.0	223.1	201.7
75°	2399.0	1576.9	268.9	143.6	146.7	195.6	235.3	296.4	262.8	213.9	186.4
77.5°	1384.4	730.4	192.5	107.0	103.9	155.9	210.9	275.0	256.7	207.8	180.3
80°	507.3	302.5	131.4	79.5	70.3	113.1	165.0	223.1	244.5	204.8	183.4
82.5°	217.0	162.0	85.6	55.0	52.0	64.2	100.8	155.9	204.8	165.0	152.8
85°	30.6	30.6	30.6	27.5	30.6	39.7	42.8	76.4	113.1	61.1	61.1
87.5°	12.2	12.2	12.2	12.2	15.3	15.3	12.2	12.2	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

(END OF REPORT)