

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: P509332

Luminaire Tested: **VERD-CA2-70-760-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-70-760-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 980mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9537 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

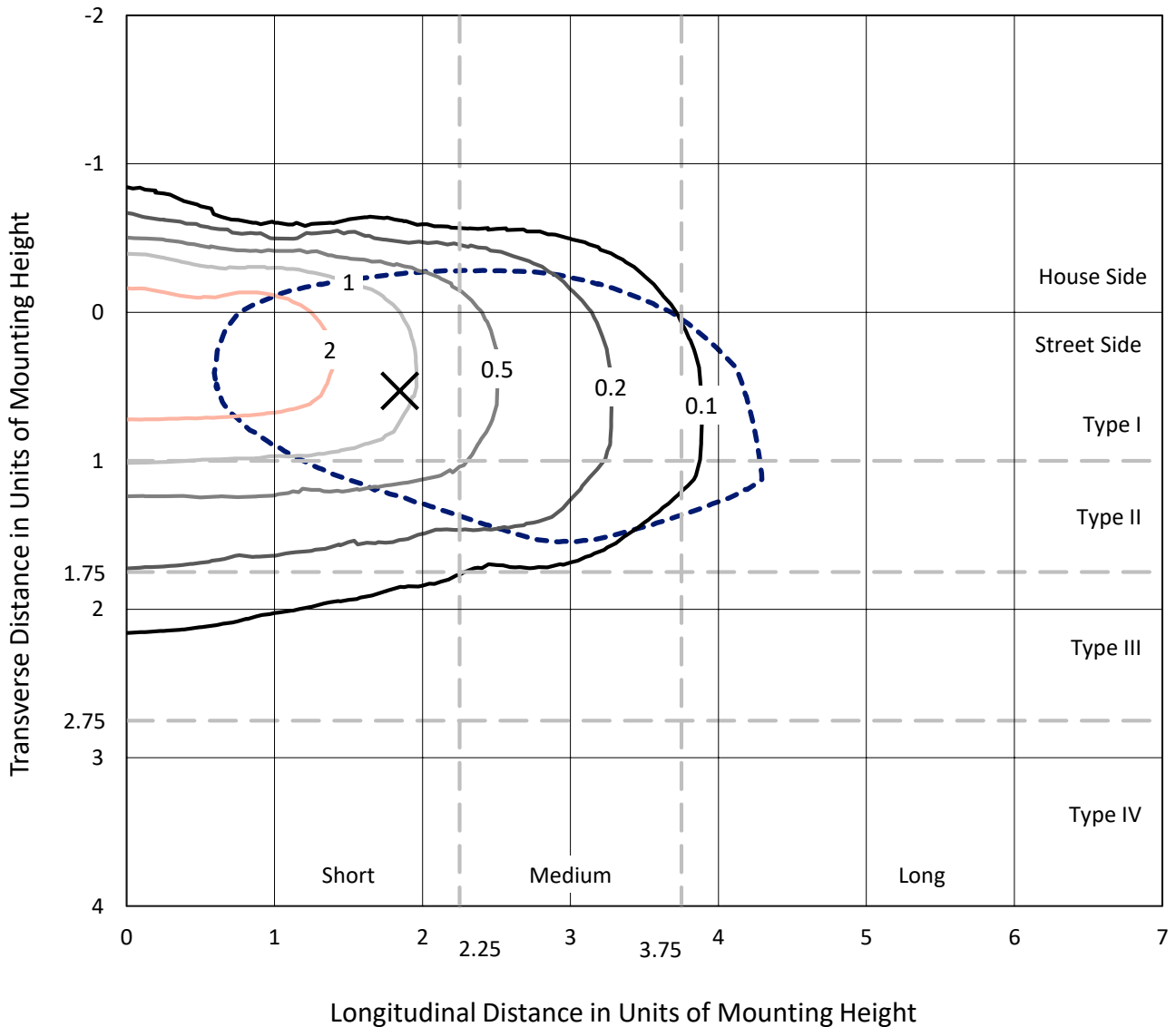
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

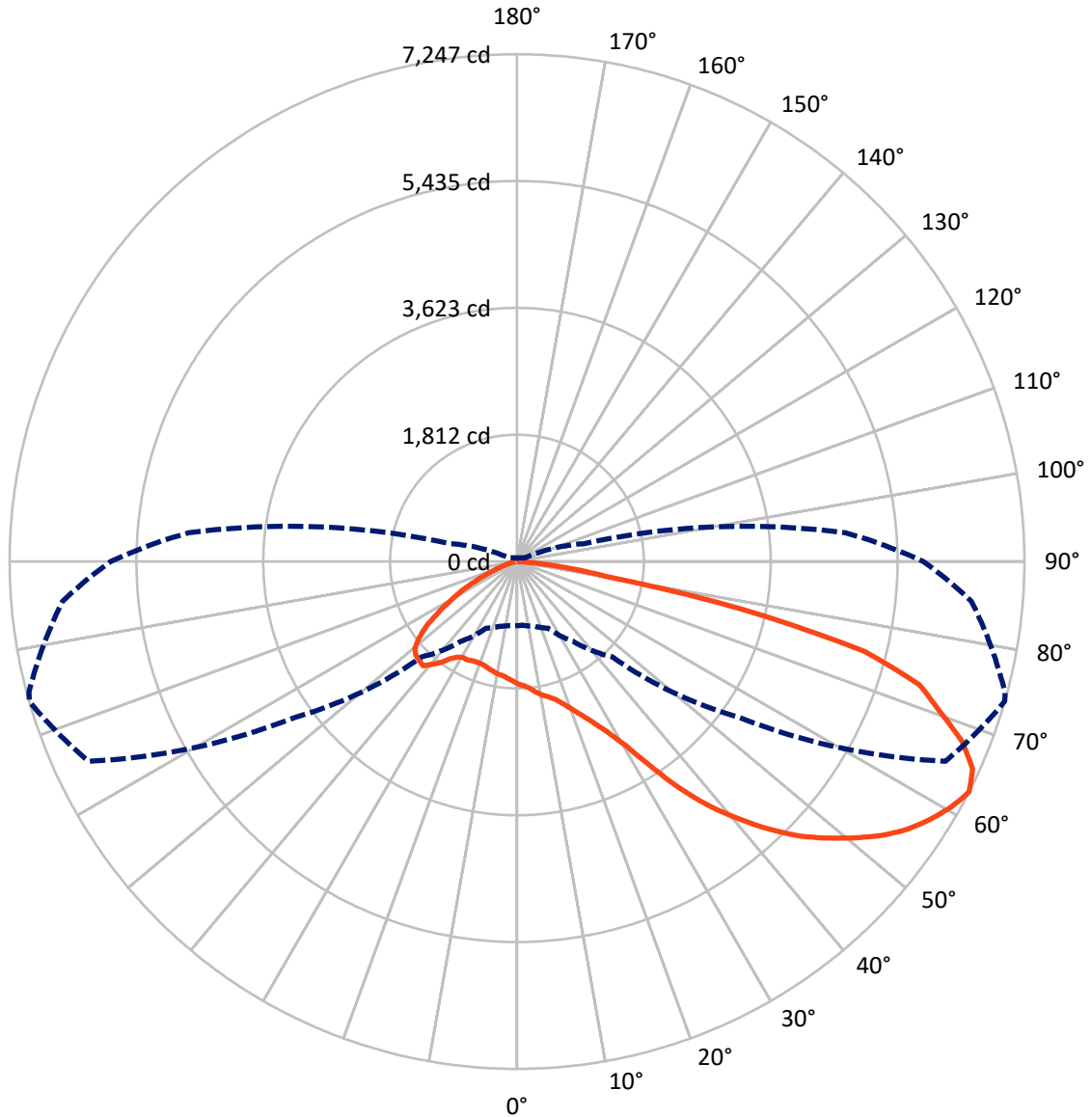
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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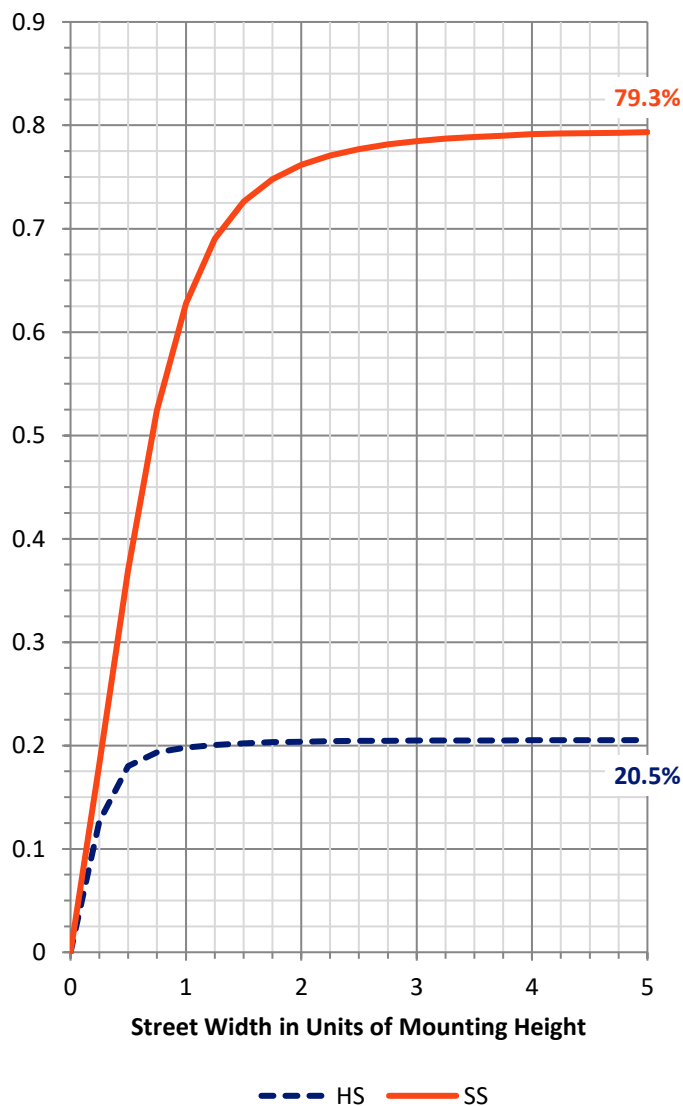
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1980.4	0.0	1980.4
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	7556.6	0.0	7556.6
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	9537.0	0.0	9537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.6	1.7
10°-20°	503.4	5.3
20°-30°	849.8	8.9
30°-40°	1264.0	13.3
40°-50°	1710.8	17.9
50°-60°	1968.2	20.6
60°-70°	1899.8	19.9
70°-80°	1075.6	11.3
80°-90°	98.7	1.0
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°	9537.0	100.0
0°-180°	9537.0	100.0

**Coefficient of Utilization**



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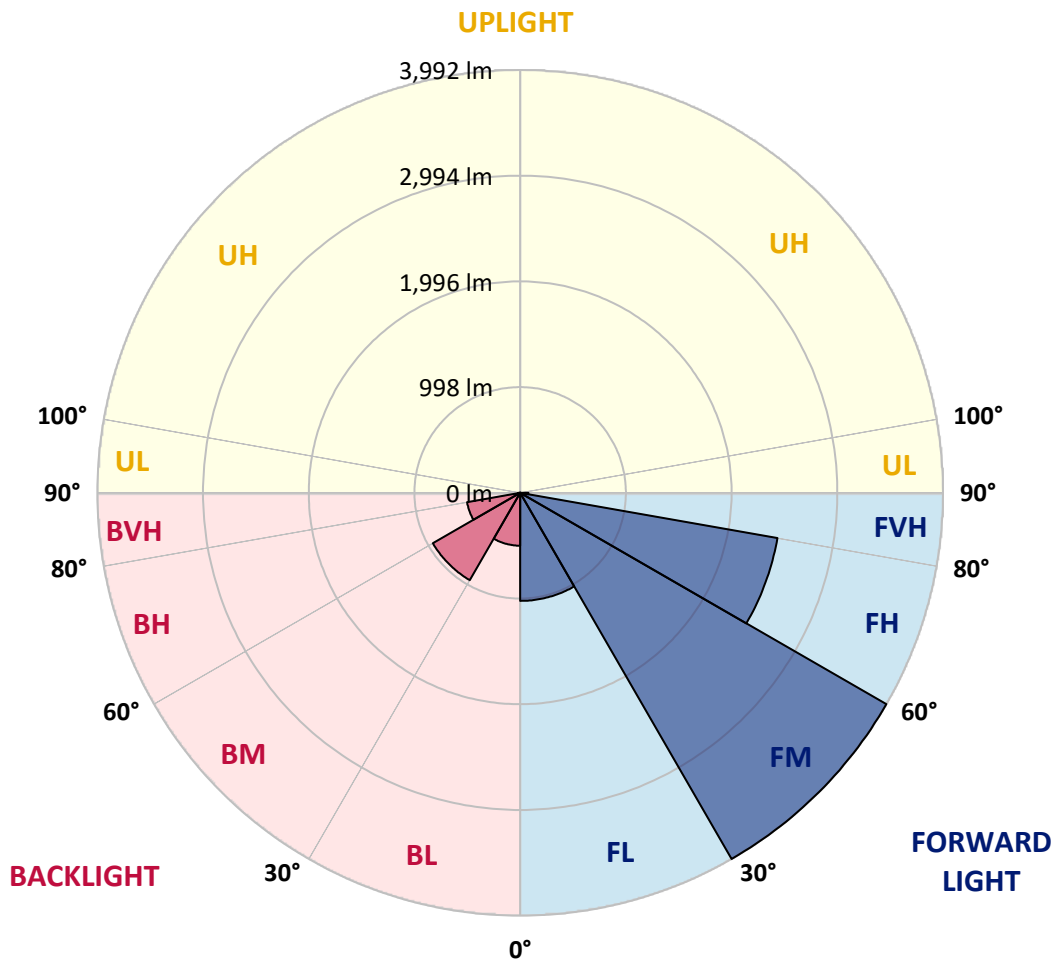
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.5	10.7			
FM (30°-60°)	3992.0	41.9			
FH (60°-80°)	2466.4	25.9			G2/5000
FVH (80°-90°)	77.8	0.8			G1/100
BL (0°-30°)	499.4	5.2	B1/500		
BM (30°-60°)	951.0	10.0	B1/1000		
BH (60°-80°)	509.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	20.9	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1
2.5°	1906.1	1893.6	1883.3	1877.7	1861.7	1848.1	1820.8	1792.4	1773.1	1772.0	1753.8
5°	1985.6	1984.5	1961.8	1957.2	1935.6	1928.8	1901.5	1860.6	1812.9	1807.2	1758.3
7.5°	2090.2	2077.7	2052.7	2042.5	2017.5	1999.3	1962.9	1924.3	1876.5	1870.8	1785.6
10°	2191.4	2184.5	2169.8	2170.9	2135.7	2101.6	2047.0	1981.1	1935.6	1928.8	1824.2
12.5°	2308.4	2286.8	2261.8	2248.2	2213.0	2191.4	2139.1	2052.7	1981.1	1974.3	1869.7
15°	2389.1	2377.8	2355.0	2345.9	2311.8	2276.6	2216.4	2149.3	2041.3	2034.5	1916.3
17.5°	2475.5	2469.8	2443.7	2438.0	2405.0	2363.0	2316.4	2228.9	2134.5	2123.2	1972.0
20°	2533.5	2523.2	2519.8	2518.7	2509.6	2483.5	2424.4	2356.2	2251.6	2231.1	2043.6
22.5°	2610.8	2600.5	2605.1	2609.6	2622.1	2610.8	2572.1	2491.4	2388.0	2369.8	2156.1
25°	2618.7	2611.9	2642.6	2706.2	2731.2	2743.7	2714.2	2651.7	2551.7	2527.8	2290.2
27.5°	2640.3	2630.1	2663.0	2730.1	2842.6	2861.9	2867.6	2838.1	2754.0	2740.3	2472.1
30°	2601.7	2594.8	2646.0	2760.8	2887.0	2996.1	3038.1	3079.0	3040.4	3016.5	2725.6
32.5°	2507.3	2511.9	2578.9	2731.2	2964.2	3132.5	3241.6	3385.9	3455.3	3450.7	3174.5
35°	2369.8	2367.5	2480.1	2694.9	2971.1	3260.9	3464.3	3757.6	3951.9	3938.3	3646.2
37.5°	2252.7	2247.1	2374.3	2602.8	2976.7	3363.2	3725.8	4163.4	4410.0	4396.4	4031.5
40°	2109.5	2118.6	2232.3	2496.0	2929.0	3439.3	3953.1	4557.8	4810.1	4810.1	4430.5
42.5°	1965.2	1973.1	2085.7	2347.1	2859.7	3495.0	4166.8	4951.0	5207.9	5213.6	4704.4
45°	1839.0	1842.4	1944.7	2180.0	2734.7	3504.1	4363.4	5345.4	5580.7	5565.9	5016.9
47.5°	1617.4	1654.9	1815.1	2030.0	2564.2	3464.3	4529.3	5696.6	5901.2	5870.5	5314.7
50°	1288.9	1288.9	1510.5	1886.7	2368.7	3358.6	4660.0	6017.1	6205.8	6177.4	5575.0
52.5°	1184.3	1186.6	1254.8	1685.6	2170.9	3176.8	4735.1	6335.4	6504.7	6485.4	5821.6
55°	1128.6	1132.0	1163.9	1366.2	1991.3	2898.3	4737.3	6582.0	6758.2	6715.0	6029.6
57.5°	1044.5	1038.8	1105.9	1217.3	1781.0	2539.2	4625.9	6773.0	6954.8	6921.9	6200.1
60°	985.4	976.3	1021.8	1121.8	1554.9	2167.5	4329.3	6911.6	7123.0	7142.4	6367.2
62.5°	916.1	912.7	955.9	1050.2	1387.8	1924.3	3883.7	6750.2	7246.9	7216.2	6515.0
65°	846.8	839.9	880.9	954.7	1226.4	1725.4	3434.8	6511.6	7151.5	7178.7	6544.5
67.5°	755.8	754.7	793.3	847.9	1050.2	1502.6	2784.7	6197.9	6855.9	6836.6	6276.3
70°	645.6	645.6	684.2	732.0	877.5	1282.1	2137.9	5660.2	6401.3	6513.8	5817.1
72.5°	521.7	524.0	562.6	617.2	724.0	1044.5	1576.5	4922.6	6006.9	5826.2	5169.2
75°	278.5	250.1	441.0	496.7	584.2	833.1	1078.6	3200.7	5122.6	4997.6	4288.4
77.5°	67.1	70.5	138.7	258.0	311.4	461.5	530.8	1482.1	3302.9	3501.9	3058.6
80°	44.3	48.9	75.0	183.0	208.0	245.5	210.3	645.6	1280.9	1365.1	1775.4
82.5°	22.7	25.0	46.6	72.7	73.9	63.6	79.6	325.1	677.4	734.2	853.6
85°	8.0	12.5	23.9	31.8	29.6	23.9	19.3	80.7	160.3	178.4	185.3
87.5°	0.0	0.0	3.4	3.4	2.3	2.3	3.4	3.4	4.5	3.4	3.4
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°	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1	1748.1
2.5°	1739.0	1726.5	1707.2	1686.7	1665.1	1646.9	1636.7	1642.4	1649.2	1627.6	1619.6
5°	1735.6	1714.0	1677.6	1634.4	1601.5	1568.5	1529.9	1520.8	1511.7	1500.3	1487.8
7.5°	1751.5	1719.7	1645.8	1606.0	1536.7	1475.3	1441.2	1416.2	1393.5	1373.0	1360.5
10°	1781.0	1721.9	1639.0	1558.3	1482.1	1407.1	1333.2	1318.5	1313.9	1284.4	1262.8
12.5°	1800.4	1727.6	1615.1	1517.4	1408.2	1327.5	1253.7	1211.6	1208.2	1194.6	1179.8
15°	1831.1	1750.4	1599.2	1466.2	1333.2	1248.0	1179.8	1125.2	1098.0	1096.8	1085.4
17.5°	1886.7	1776.5	1574.2	1413.9	1273.0	1177.5	1079.8	1059.3	1013.8	987.7	980.9
20°	1943.6	1815.1	1567.4	1361.6	1194.6	1076.4	1001.3	944.5	908.1	880.9	863.8
22.5°	2017.5	1870.8	1569.6	1331.0	1130.9	1000.2	902.5	818.3	751.3	718.3	702.4
25°	2124.3	1935.6	1586.7	1284.4	1055.9	918.4	776.3	664.9	570.6	546.7	535.3
27.5°	2260.7	2026.6	1610.6	1236.6	986.6	808.1	624.0	499.0	420.5	402.4	391.0
30°	2469.8	2162.9	1614.0	1207.1	924.1	664.9	467.1	369.4	308.0	288.7	291.0
32.5°	2863.1	2455.0	1659.4	1145.7	812.7	510.3	343.3	269.4	222.8	216.0	227.3
35°	3320.0	2799.4	1746.9	1113.9	685.4	369.4	245.5	197.8	168.2	177.3	181.9
37.5°	3614.4	3102.9	1886.7	1041.1	536.5	271.6	171.6	154.6	148.9	154.6	164.8
40°	3957.6	3349.5	2006.1	967.2	380.8	186.4	137.5	140.9	134.1	133.0	137.5
42.5°	4236.1	3603.0	2133.4	845.6	264.8	138.7	126.2	128.4	123.9	118.2	118.2
45°	4500.9	3822.4	2132.3	682.0	175.0	122.8	115.9	120.5	119.3	111.4	110.2
47.5°	4732.8	4044.0	2133.4	495.6	133.0	112.5	108.0	112.5	112.5	105.7	104.6
50°	5020.3	4228.1	2099.3	317.1	121.6	104.6	103.4	102.3	106.8	97.7	95.5
52.5°	5196.5	4362.3	1945.9	213.7	112.5	98.9	96.6	94.3	96.6	88.7	88.7
55°	5389.7	4529.3	1745.8	169.4	106.8	92.1	90.9	88.7	88.7	79.6	80.7
57.5°	5600.0	4665.7	1476.4	148.9	102.3	87.5	85.2	81.8	77.3	70.5	69.3
60°	5752.3	4694.1	1208.2	135.3	98.9	85.2	76.2	71.6	63.6	59.1	58.0
62.5°	5803.5	4708.9	979.7	121.6	93.2	78.4	68.2	60.2	51.1	47.7	47.7
65°	5761.4	4538.4	734.2	110.2	86.4	72.7	60.2	48.9	39.8	36.4	35.2
67.5°	5490.9	4224.7	534.2	98.9	76.2	65.9	52.3	39.8	31.8	28.4	28.4
70°	4998.7	3855.3	361.4	83.0	65.9	58.0	48.9	31.8	26.1	22.7	21.6
72.5°	4462.3	3268.9	230.7	67.1	51.1	45.5	35.2	27.3	21.6	17.0	17.0
75°	3529.1	2567.6	160.3	48.9	36.4	34.1	27.3	22.7	18.2	13.6	13.6
77.5°	2456.2	1668.5	126.2	37.5	25.0	22.7	20.5	17.0	14.8	11.4	10.2
80°	1424.2	1003.6	76.2	25.0	17.0	14.8	13.6	13.6	11.4	8.0	8.0
82.5°	707.0	418.3	33.0	15.9	11.4	10.2	9.1	8.0	8.0	5.7	5.7
85°	138.7	71.6	12.5	8.0	5.7	5.7	4.5	4.5	3.4	2.3	2.3
87.5°	4.5	3.4	3.4	3.4	2.3	2.3	1.1	0.0	0.0	0.0	0.0
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)