

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: P233670

Luminaire Tested: **VERD-C02-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02-D-U-T2-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8797 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

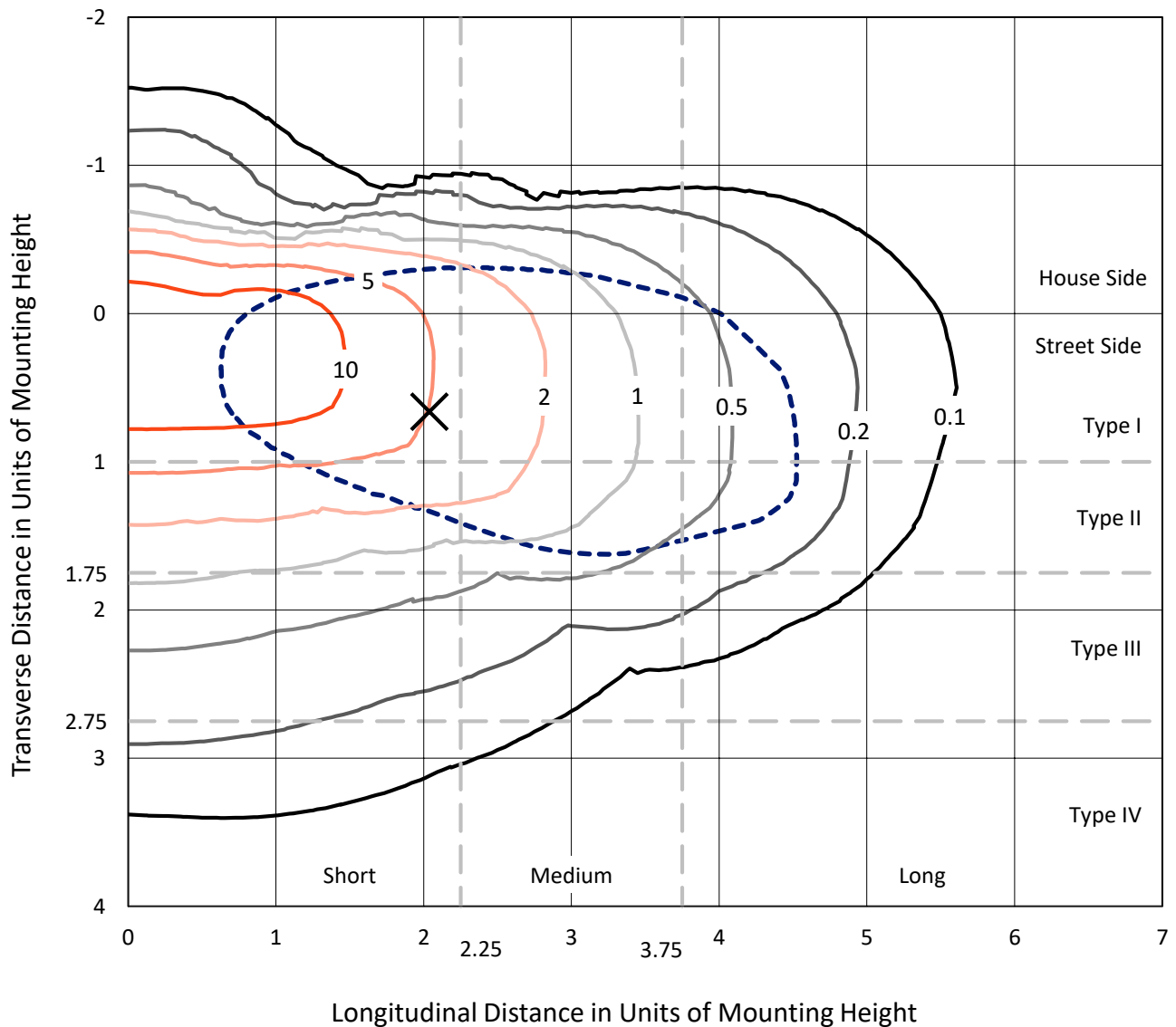
Input Watts (W): 90  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

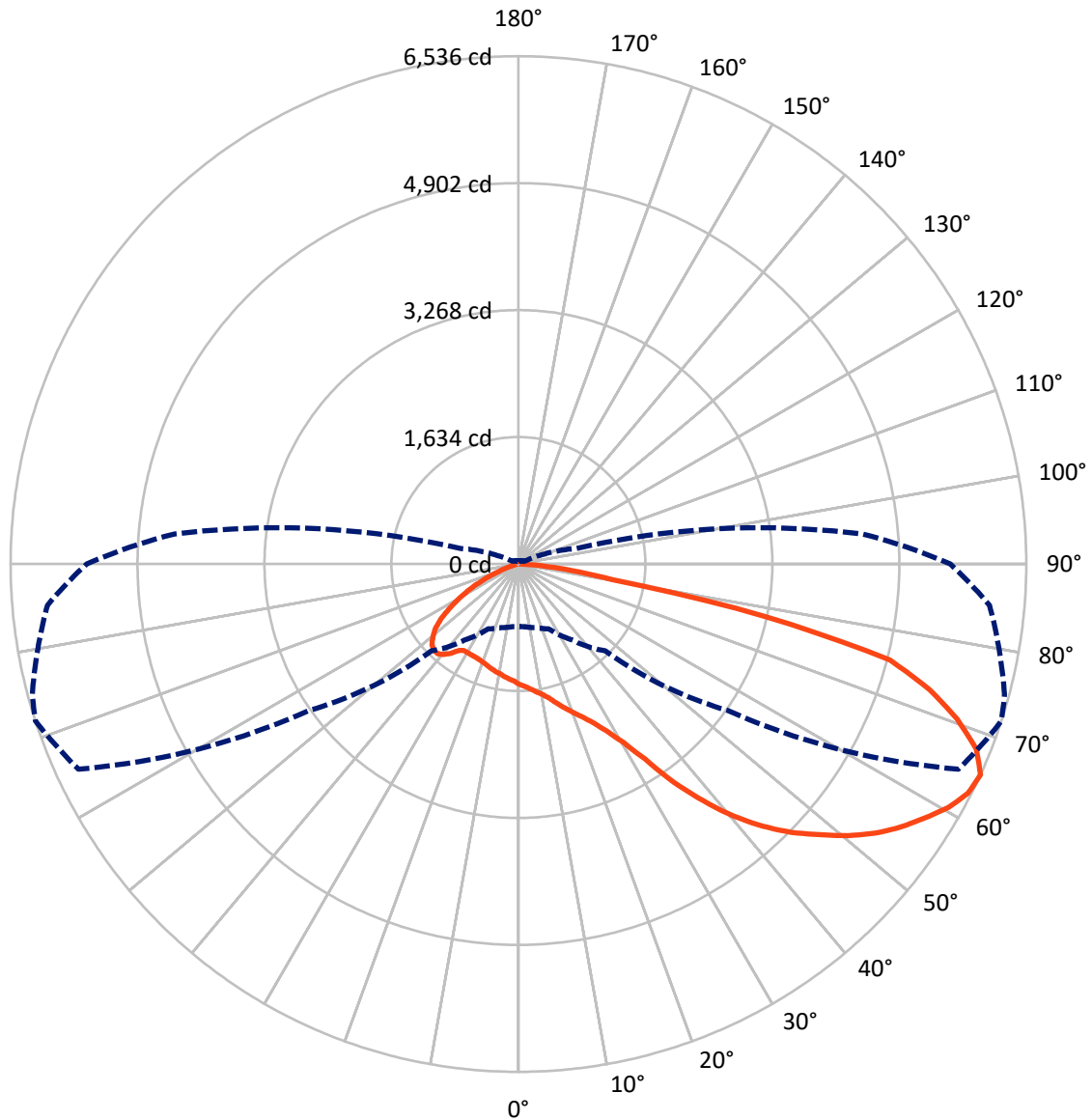
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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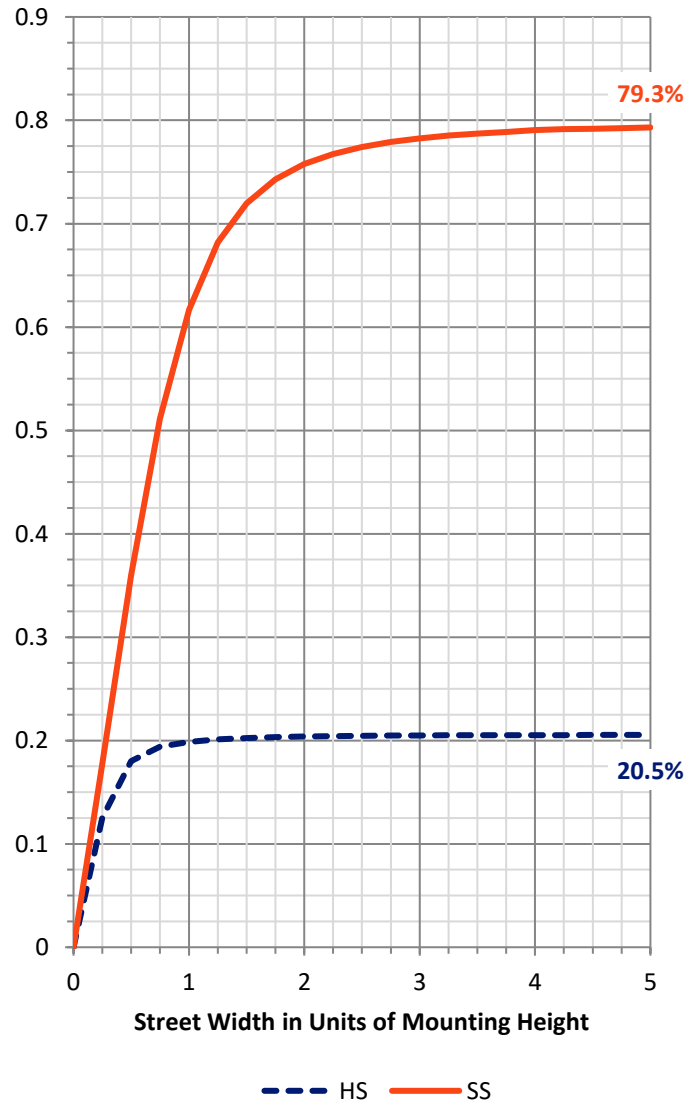
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1828.1	0.0	1828.1
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6968.9	0.0	6968.9
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8797.0	0.0	8797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	1.7
10°-20°	451.1	5.1
20°-30°	753.7	8.6
30°-40°	1115.0	12.7
40°-50°	1541.4	17.5
50°-60°	1803.7	20.5
60°-70°	1792.9	20.4
70°-80°	1073.8	12.2
80°-90°	116.9	1.3
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°	8797.0	100.0
0°-180°	8797.0	100.0

**Coefficient of Utilization**



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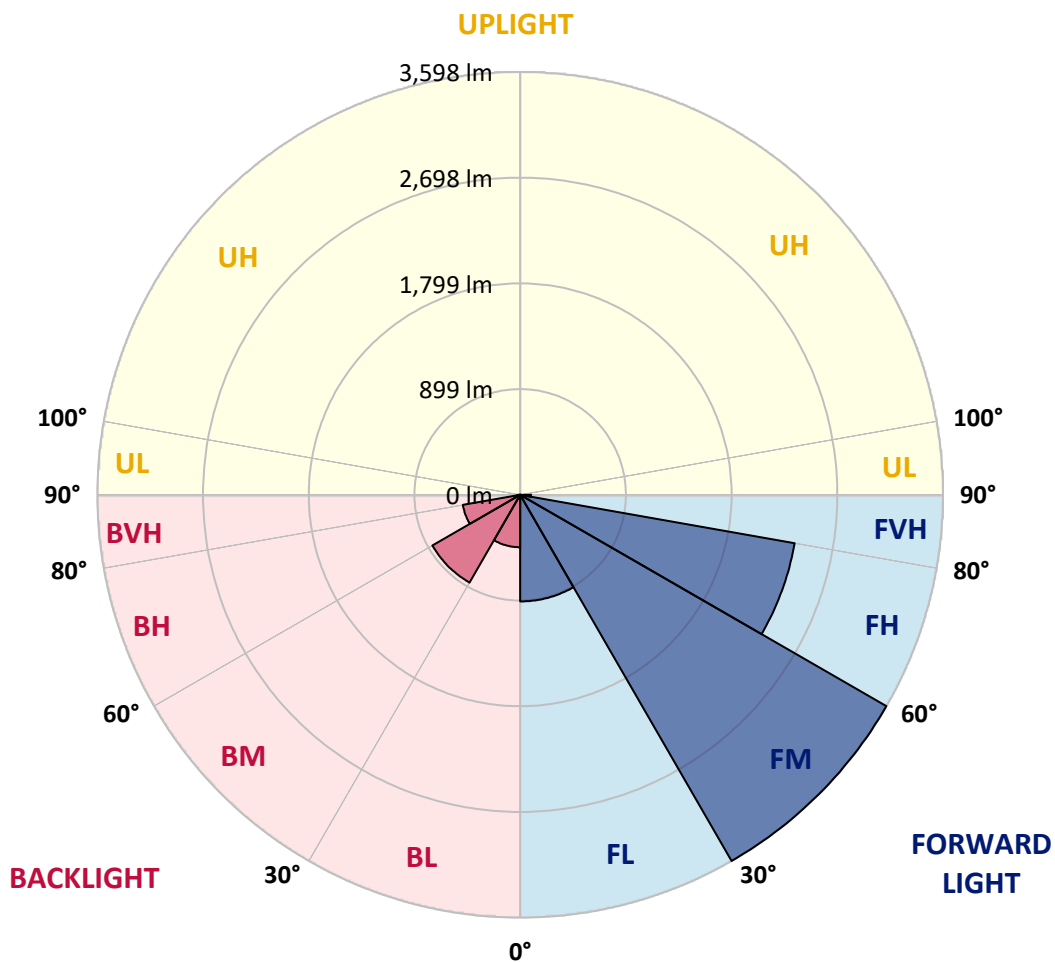
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	907.1	10.3			
FM	(30°-60°)	3597.7	40.9			
FH	(60°-80°)	2371.7	27.0			G2/5000
FVH	(80°-90°)	92.4	1.1			G1/100
BL	(0°-30°)	446.3	5.1	B1/500		
BM	(30°-60°)	862.4	9.8	B1/1000		
BH	(60°-80°)	494.9	5.6	B1/500		G1/500
BVH	(80°-90°)	24.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4
2.5°	1681.0	1682.5	1683.2	1656.6	1642.3	1625.8	1610.0	1592.7	1574.8	1568.3	1544.6
5°	1784.4	1785.8	1781.5	1757.1	1730.5	1706.1	1676.0	1645.1	1615.0	1606.4	1566.2
7.5°	1884.2	1883.4	1879.8	1849.0	1816.0	1783.7	1741.3	1699.7	1660.2	1646.6	1587.0
10°	1966.7	1968.1	1970.3	1937.3	1905.0	1866.2	1814.5	1752.8	1707.6	1686.0	1608.5
12.5°	2057.1	2052.8	2058.6	2026.3	1981.8	1946.6	1899.9	1827.4	1773.6	1746.3	1650.2
15°	2160.5	2160.5	2152.6	2126.0	2080.8	2037.8	1991.1	1924.3	1859.7	1818.1	1706.1
17.5°	2231.6	2227.2	2225.1	2202.1	2163.4	2126.0	2090.2	2022.0	1951.6	1900.7	1758.5
20°	2261.7	2263.1	2273.2	2256.7	2235.9	2213.6	2174.1	2121.0	2043.5	1988.9	1814.5
22.5°	2319.8	2321.3	2333.5	2322.0	2316.3	2310.5	2273.9	2227.2	2144.7	2092.3	1884.9
25°	2323.4	2324.9	2357.9	2376.5	2406.0	2419.6	2394.5	2354.3	2270.3	2219.4	1989.7
27.5°	2334.2	2338.5	2372.2	2423.9	2501.4	2528.7	2514.4	2512.9	2441.9	2388.0	2126.0
30°	2324.9	2329.2	2378.0	2449.8	2557.4	2637.8	2654.3	2696.7	2668.0	2627.8	2315.5
32.5°	2258.8	2274.6	2332.8	2446.9	2605.5	2751.2	2804.3	2949.3	2992.4	2996.7	2696.0
35°	2139.0	2147.6	2253.1	2413.9	2637.8	2858.2	3004.6	3272.3	3454.6	3446.7	3117.3
37.5°	2047.8	2050.7	2159.1	2357.9	2655.8	2973.0	3232.8	3661.4	3870.9	3880.3	3497.7
40°	1930.8	1951.6	2055.7	2290.4	2645.7	3069.9	3459.7	4023.8	4267.9	4257.8	3831.5
42.5°	1821.7	1833.9	1937.3	2184.9	2609.1	3143.8	3682.2	4374.8	4614.6	4581.5	4151.6
45°	1708.3	1729.1	1823.9	2048.5	2536.6	3185.5	3883.9	4707.9	4927.5	4886.6	4433.7
47.5°	1594.9	1610.0	1710.5	1923.6	2400.2	3184.0	4082.0	5020.1	5205.3	5176.6	4700.7
50°	1213.8	1246.8	1510.9	1793.0	2208.6	3123.7	4242.0	5316.5	5496.7	5452.2	4961.2
52.5°	1112.5	1123.3	1197.2	1641.5	2004.0	2980.2	4366.9	5595.0	5753.7	5702.7	5206.7
55°	1051.5	1064.5	1094.6	1334.3	1836.1	2744.0	4418.6	5854.9	5973.3	5921.6	5425.6
57.5°	970.4	983.3	1042.9	1149.2	1660.9	2384.4	4342.5	6085.3	6167.8	6111.1	5628.8
60°	914.4	920.2	977.6	1060.9	1469.3	2021.2	4088.4	6272.6	6358.7	6291.3	5829.7
62.5°	862.8	869.2	910.1	992.7	1310.7	1755.0	3692.9	6318.5	6494.4	6442.0	6013.5
65°	803.2	808.9	846.3	919.5	1187.9	1581.3	3285.2	6248.2	6536.0	6476.5	6084.6
67.5°	724.2	732.1	761.6	827.6	1027.1	1384.6	2678.7	6118.3	6353.7	6292.0	5938.8
70°	626.6	630.2	665.4	725.0	867.8	1201.6	2100.9	5656.0	5992.7	5924.5	5528.3
72.5°	506.0	512.5	550.5	613.0	712.7	989.8	1500.9	4887.3	5535.5	5509.6	4930.4
75°	338.1	363.2	453.6	516.8	589.3	773.0	1007.8	3430.2	4941.9	4962.0	4211.9
77.5°	64.6	66.8	190.2	282.8	344.5	472.3	623.7	1685.3	3257.3	3609.7	3176.1
80°	42.3	45.9	81.1	198.1	228.3	234.0	320.1	738.6	1227.4	1552.5	1831.8
82.5°	22.3	26.6	48.8	114.8	104.8	58.1	104.8	381.1	680.4	781.7	923.8
85°	9.3	10.8	23.7	39.5	29.4	24.4	24.4	152.2	301.5	348.8	362.5
87.5°	1.4	1.4	5.0	7.2	4.3	2.9	2.2	0.7	0.7	0.7	0.7
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°	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4	1550.4
2.5°	1544.6	1531.7	1513.8	1493.0	1477.9	1470.0	1463.5	1446.3	1440.6	1452.1	1449.2
5°	1551.1	1536.0	1495.1	1461.4	1427.6	1406.8	1383.9	1353.7	1340.8	1348.0	1345.8
7.5°	1555.4	1536.8	1475.7	1423.3	1366.6	1327.2	1297.0	1257.5	1238.2	1245.3	1236.7
10°	1561.9	1533.9	1452.8	1383.1	1309.2	1251.8	1207.3	1161.4	1141.3	1147.0	1139.8
12.5°	1589.1	1543.9	1442.0	1348.7	1258.3	1186.5	1130.5	1081.7	1053.0	1058.7	1053.0
15°	1633.6	1564.0	1426.2	1304.9	1204.4	1122.6	1058.0	1002.0	969.0	976.9	969.7
17.5°	1680.3	1588.4	1411.9	1256.1	1147.0	1055.8	988.4	941.0	887.9	892.9	882.1
20°	1720.5	1611.4	1404.0	1210.2	1093.2	984.8	903.7	871.4	798.2	779.5	767.3
22.5°	1776.5	1645.1	1397.5	1172.8	1026.4	913.7	817.5	757.2	678.3	638.8	635.2
25°	1856.2	1695.4	1396.8	1143.4	966.1	839.1	704.9	603.6	534.0	487.4	480.9
27.5°	1957.4	1762.1	1404.7	1114.0	905.8	745.0	566.3	454.3	391.9	356.0	349.6
30°	2103.1	1849.7	1414.7	1080.2	838.4	623.0	422.1	334.5	282.8	257.0	251.9
32.5°	2415.3	2074.4	1429.8	1045.1	757.2	469.4	306.5	242.6	203.1	187.3	195.2
35°	2791.4	2379.4	1497.3	999.9	651.0	334.5	221.1	173.0	145.7	149.3	153.6
37.5°	3120.2	2670.8	1648.7	941.7	508.9	245.5	152.2	129.2	129.2	140.7	150.7
40°	3430.2	2933.5	1784.4	862.8	356.7	169.4	117.7	119.9	117.7	124.9	122.7
42.5°	3723.1	3182.6	1890.6	768.7	233.3	117.0	106.9	111.3	107.7	109.1	102.6
45°	4000.1	3440.3	1949.5	630.2	155.0	101.9	98.3	105.5	104.8	103.4	96.9
47.5°	4256.4	3667.1	1978.9	454.3	106.9	91.9	92.6	97.6	99.8	98.3	94.7
50°	4507.6	3893.2	1952.3	272.0	96.2	84.0	89.0	89.0	93.3	85.4	82.5
52.5°	4748.1	4120.0	1868.4	165.1	88.3	78.2	82.5	81.1	83.3	75.4	73.9
55°	4974.2	4288.7	1702.6	129.9	83.3	74.6	75.4	76.8	73.2	64.6	67.5
57.5°	5213.2	4432.2	1471.4	117.7	81.1	69.6	71.1	70.3	64.6	56.7	56.7
60°	5409.8	4536.3	1239.6	106.9	79.7	68.2	63.2	61.7	53.1	48.8	48.1
62.5°	5545.5	4565.7	1013.5	95.5	75.4	63.2	56.7	52.4	44.5	40.2	38.8
65°	5556.3	4440.1	771.6	86.1	71.1	58.9	52.4	43.1	35.2	31.6	30.1
67.5°	5335.9	4091.3	544.1	79.0	63.9	54.6	45.9	34.5	28.0	25.1	24.4
70°	4875.1	3657.8	333.0	68.9	58.1	51.0	47.4	28.0	23.0	19.4	19.4
72.5°	4277.9	3168.2	195.2	58.9	48.8	40.9	31.6	23.7	19.4	15.1	15.1
75°	3666.4	2515.1	119.9	44.5	35.9	32.3	24.4	20.1	15.8	11.5	11.5
77.5°	2640.0	1856.9	93.3	28.7	22.3	23.0	17.9	15.8	12.9	9.3	9.3
80°	1620.0	1130.5	66.8	19.4	12.9	12.9	12.9	12.2	9.3	7.9	7.2
82.5°	821.1	516.8	33.0	11.5	7.9	7.9	7.9	8.6	7.2	5.7	5.7
85°	288.5	145.0	10.0	5.7	5.0	5.0	4.3	4.3	3.6	2.9	2.9
87.5°	0.7	1.4	1.4	2.2	2.9	2.9	2.2	1.4	0.7	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)