

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: P509356

Luminaire Tested: **VERD-CA2-80-730-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509356  
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-CA2-80-730-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1100mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10376 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

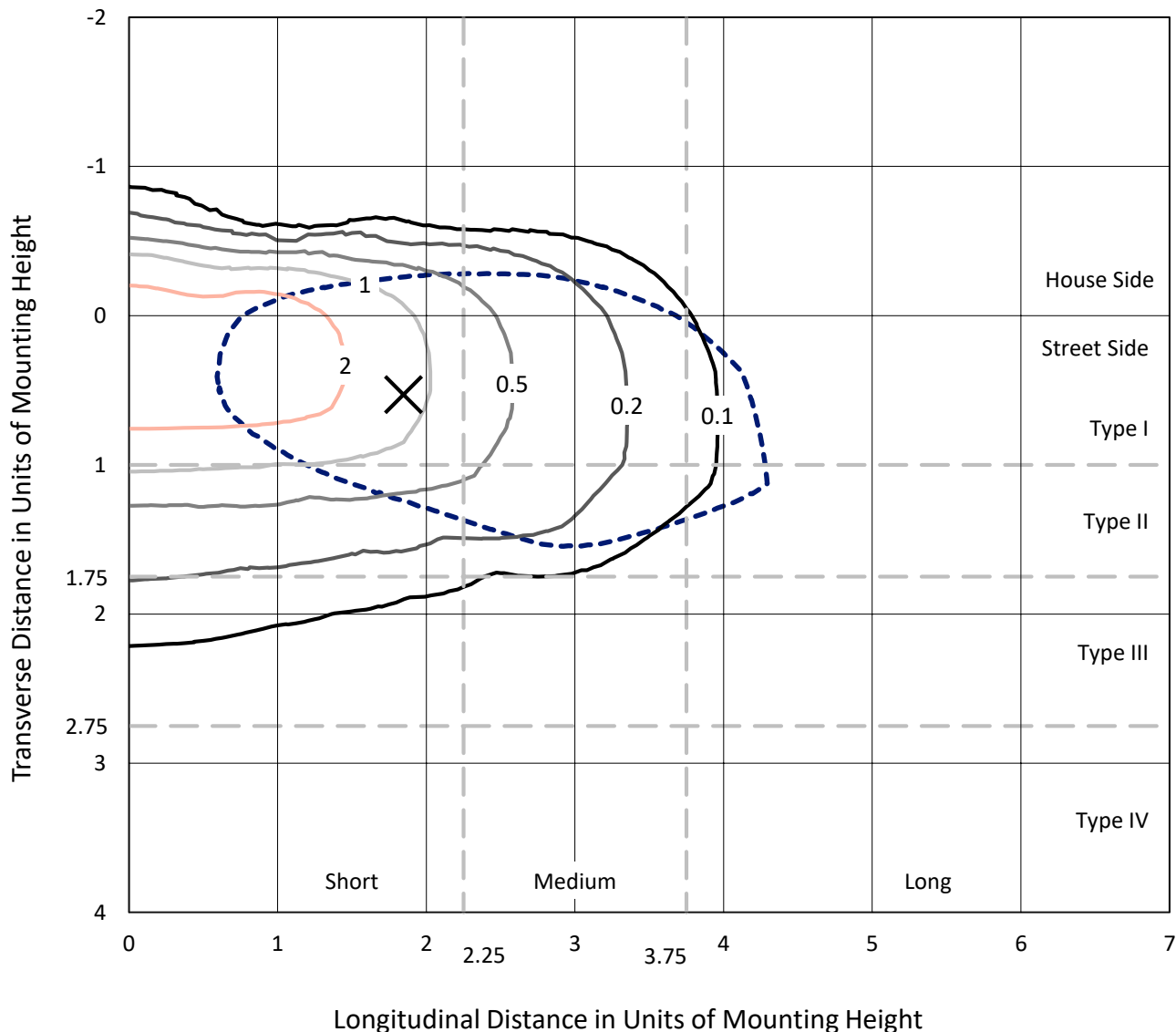
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

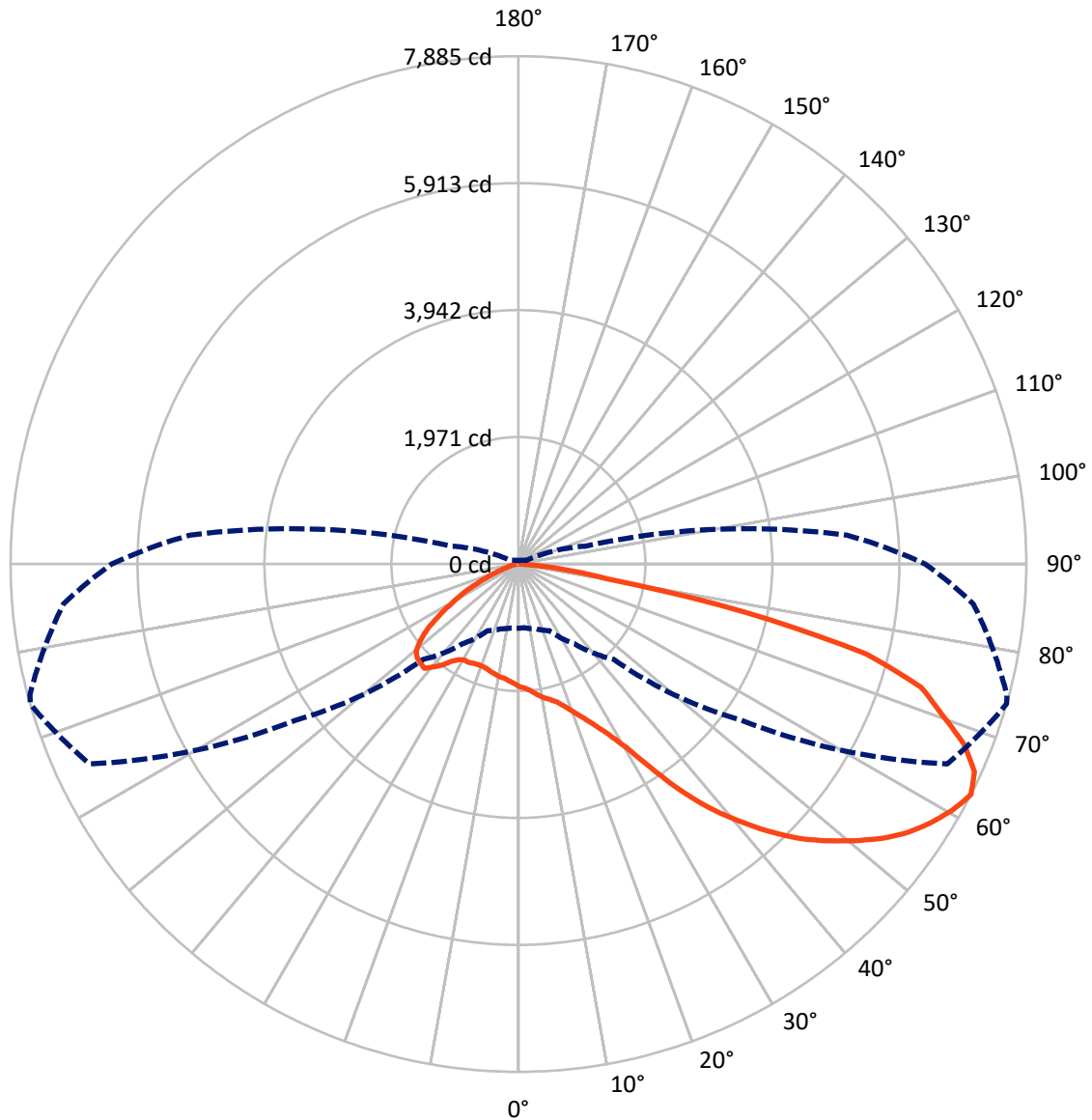
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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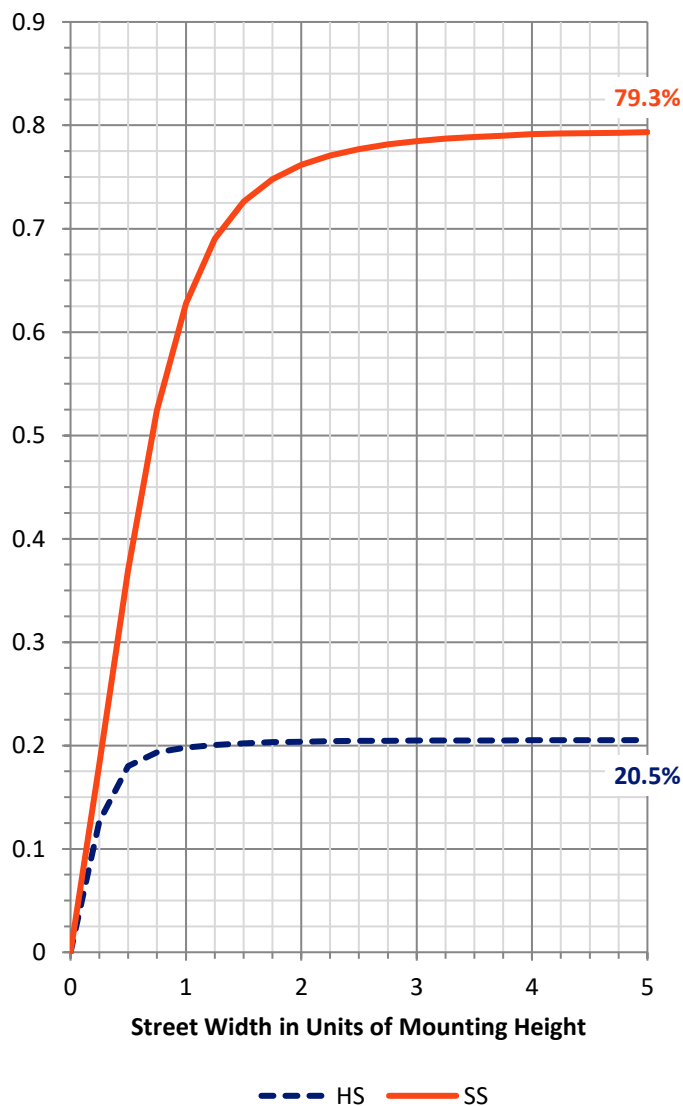
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2154.6	0.0	2154.6
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	8221.4	0.0	8221.4
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	10376.0	0.0	10376.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	1.7
10°-20°	547.6	5.3
20°-30°	924.6	8.9
30°-40°	1375.2	13.3
40°-50°	1861.3	17.9
50°-60°	2141.4	20.6
60°-70°	2067.0	19.9
70°-80°	1170.3	11.3
80°-90°	107.4	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°	10376.0	100.0
0°-180°	10376.0	100.0

**Coefficient of Utilization**



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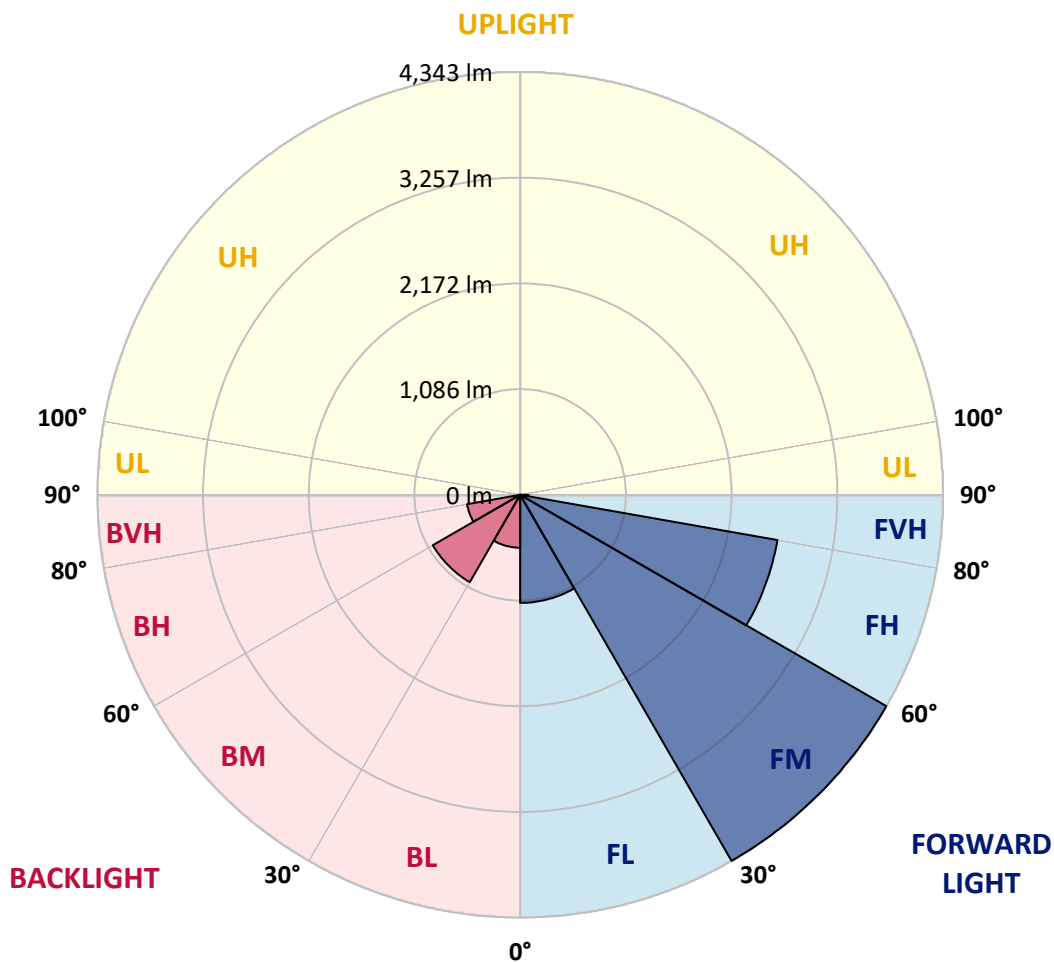
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.2	10.7			
FM (30°-60°)	4343.2	41.9			
FH (60°-80°)	2683.4	25.9			G2/5000
FVH (80°-90°)	84.6	0.8			G1/100
BL (0°-30°)	543.3	5.2	B2/1000		
BM (30°-60°)	1034.7	10.0	B2/2500		
BH (60°-80°)	553.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	22.8	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°	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	2073.8	2060.2	2049.0	2042.8	2025.5	2010.7	1981.0	1950.1	1929.1	1927.8	1908.1
5°	2160.3	2159.1	2134.3	2129.4	2105.9	2098.5	2068.8	2024.3	1972.4	1966.2	1913.0
7.5°	2274.1	2260.5	2233.3	2222.1	2194.9	2175.2	2135.6	2093.5	2041.6	2035.4	1942.7
10°	2384.1	2376.7	2360.6	2361.9	2323.5	2286.4	2227.1	2155.4	2105.9	2098.5	1984.7
12.5°	2511.5	2488.0	2460.8	2446.0	2407.6	2384.1	2327.3	2233.3	2155.4	2147.9	2034.2
15°	2599.3	2586.9	2562.2	2552.3	2515.2	2476.9	2411.3	2338.4	2220.9	2213.5	2084.9
17.5°	2693.3	2687.1	2658.7	2652.5	2616.6	2570.9	2520.2	2424.9	2322.3	2309.9	2145.5
20°	2756.4	2745.2	2741.5	2740.3	2730.4	2701.9	2637.6	2563.4	2449.7	2427.4	2223.4
22.5°	2840.4	2829.3	2834.3	2839.2	2852.8	2840.4	2798.4	2710.6	2598.1	2578.3	2345.8
25°	2849.1	2841.7	2875.1	2944.3	2971.5	2985.1	2953.0	2885.0	2776.1	2750.2	2491.7
27.5°	2872.6	2861.5	2897.3	2970.3	3092.7	3113.7	3119.9	3087.8	2996.2	2981.4	2689.6
30°	2830.5	2823.1	2878.8	3003.7	3140.9	3259.6	3305.4	3349.9	3307.9	3281.9	2965.3
32.5°	2727.9	2732.9	2805.8	2971.5	3225.0	3408.0	3526.7	3683.8	3759.2	3754.3	3453.8
35°	2578.3	2575.8	2698.2	2931.9	3232.4	3547.8	3769.1	4088.2	4299.6	4284.8	3967.0
37.5°	2450.9	2444.7	2583.2	2831.8	3238.6	3659.1	4053.5	4529.6	4798.0	4783.1	4386.2
40°	2295.1	2305.0	2428.7	2715.5	3186.7	3741.9	4300.8	4958.7	5233.2	5233.2	4820.2
42.5°	2138.1	2146.7	2269.1	2553.6	3111.3	3802.5	4533.3	5386.6	5666.0	5672.2	5118.2
45°	2000.8	2004.5	2115.8	2371.8	2975.2	3812.4	4747.3	5815.7	6071.6	6055.6	5458.3
47.5°	1759.7	1800.5	1974.8	2208.5	2789.7	3769.1	4927.8	6197.8	6420.4	6387.0	5782.3
50°	1402.3	1402.3	1643.4	2052.7	2577.0	3654.1	5070.0	6546.5	6751.8	6720.8	6065.5
52.5°	1288.5	1291.0	1365.2	1833.9	2361.9	3456.3	5151.6	6892.7	7077.0	7056.0	6333.8
55°	1227.9	1231.6	1266.3	1486.4	2166.5	3153.3	5154.1	7161.1	7352.7	7305.8	6560.1
57.5°	1136.4	1130.2	1203.2	1324.4	1937.7	2762.5	5032.9	7368.8	7566.7	7530.8	6745.6
60°	1072.1	1062.2	1111.7	1220.5	1691.6	2358.2	4710.2	7519.7	7749.7	7770.7	6927.4
62.5°	996.7	993.0	1040.0	1142.6	1509.9	2093.5	4225.4	7344.1	7884.5	7851.1	7088.1
65°	921.3	913.8	958.4	1038.7	1334.3	1877.1	3737.0	7084.4	7780.6	7810.3	7120.3
67.5°	822.3	821.1	863.1	922.5	1142.6	1634.8	3029.6	6743.1	7459.1	7438.1	6828.4
70°	702.4	702.4	744.4	796.4	954.6	1394.9	2326.0	6158.2	6964.5	7086.9	6328.8
72.5°	567.6	570.1	612.1	671.5	787.7	1136.4	1715.1	5355.7	6535.4	6338.7	5624.0
75°	303.0	272.0	479.8	540.4	635.6	906.4	1173.5	3482.2	5573.3	5437.3	4665.6
77.5°	73.0	76.7	150.9	280.7	338.8	502.1	577.5	1612.5	3593.5	3809.9	3327.7
80°	48.2	53.2	81.6	199.1	226.3	267.1	228.8	702.4	1393.6	1485.1	1931.5
82.5°	24.7	27.2	50.7	79.1	80.4	69.2	86.6	353.7	737.0	798.8	928.7
85°	8.7	13.6	26.0	34.6	32.2	26.0	21.0	87.8	174.4	194.1	201.6
87.5°	0.0	0.0	3.7	3.7	2.5	2.5	3.7	3.7	4.9	3.7	3.7
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°	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1892.0	1878.4	1857.4	1835.1	1811.6	1791.8	1780.7	1786.9	1794.3	1770.8	1762.1
5°	1888.3	1864.8	1825.2	1778.2	1742.3	1706.5	1664.4	1654.6	1644.7	1632.3	1618.7
7.5°	1905.6	1871.0	1790.6	1747.3	1671.9	1605.1	1568.0	1540.8	1516.1	1493.8	1480.2
10°	1937.7	1873.4	1783.2	1695.4	1612.5	1530.9	1450.5	1434.4	1429.5	1397.3	1373.8
12.5°	1958.8	1879.6	1757.2	1650.8	1532.1	1444.3	1364.0	1318.2	1314.5	1299.7	1283.6
15°	1992.1	1904.3	1739.9	1595.2	1450.5	1357.8	1283.6	1224.2	1194.5	1193.3	1180.9
17.5°	2052.7	1932.8	1712.7	1538.3	1385.0	1281.1	1174.8	1152.5	1103.0	1074.6	1067.2
20°	2114.6	1974.8	1705.3	1481.4	1299.7	1171.0	1089.4	1027.6	988.0	958.4	939.8
22.5°	2194.9	2035.4	1707.7	1448.0	1230.4	1088.2	981.8	890.3	817.4	781.5	764.2
25°	2311.2	2105.9	1726.3	1397.3	1148.8	999.2	844.6	723.4	620.8	594.8	582.4
27.5°	2459.6	2204.8	1752.2	1345.4	1073.4	879.2	678.9	542.9	457.5	437.8	425.4
30°	2687.1	2353.2	1756.0	1313.3	1005.3	723.4	508.2	401.9	335.1	314.1	316.6
32.5°	3115.0	2671.0	1805.4	1246.5	884.2	555.2	373.4	293.1	242.4	235.0	247.3
35°	3612.1	3045.7	1900.6	1211.9	745.7	401.9	267.1	215.2	183.0	192.9	197.9
37.5°	3932.3	3375.9	2052.7	1132.7	583.7	295.5	186.7	168.2	162.0	168.2	179.3
40°	4305.8	3644.2	2182.6	1052.3	414.3	202.8	149.6	153.3	145.9	144.7	149.6
42.5°	4608.8	3920.0	2321.1	920.0	288.1	150.9	137.3	139.7	134.8	128.6	128.6
45°	4896.9	4158.6	2319.8	742.0	190.4	133.6	126.1	131.1	129.8	121.2	119.9
47.5°	5149.1	4399.8	2321.1	539.2	144.7	122.4	117.5	122.4	122.4	115.0	113.8
50°	5462.0	4600.1	2284.0	345.0	132.3	113.8	112.5	111.3	116.2	106.3	103.9
52.5°	5653.7	4746.0	2117.0	232.5	122.4	107.6	105.1	102.6	105.1	96.5	96.5
55°	5863.9	4927.8	1899.4	184.3	116.2	100.2	98.9	96.5	96.5	86.6	87.8
57.5°	6092.7	5076.2	1606.3	162.0	111.3	95.2	92.7	89.0	84.1	76.7	75.4
60°	6258.4	5107.1	1314.5	147.2	107.6	92.7	82.9	77.9	69.2	64.3	63.1
62.5°	6314.0	5123.2	1065.9	132.3	101.4	85.3	74.2	65.5	55.6	51.9	51.9
65°	6268.3	4937.7	798.8	119.9	94.0	79.1	65.5	53.2	43.3	39.6	38.3
67.5°	5973.9	4596.4	581.2	107.6	82.9	71.7	56.9	43.3	34.6	30.9	30.9
70°	5438.5	4194.5	393.2	90.3	71.7	63.1	53.2	34.6	28.4	24.7	23.5
72.5°	4854.8	3556.4	251.0	73.0	55.6	49.5	38.3	29.7	23.5	18.5	18.5
75°	3839.6	2793.4	174.4	53.2	39.6	37.1	29.7	24.7	19.8	14.8	14.8
77.5°	2672.3	1815.3	137.3	40.8	27.2	24.7	22.3	18.5	16.1	12.4	11.1
80°	1549.4	1091.9	82.9	27.2	18.5	16.1	14.8	14.8	12.4	8.7	8.7
82.5°	769.2	455.1	35.9	17.3	12.4	11.1	9.9	8.7	8.7	6.2	6.2
85°	150.9	77.9	13.6	8.7	6.2	6.2	4.9	4.9	3.7	2.5	2.5
87.5°	4.9	3.7	3.7	3.7	2.5	2.5	1.2	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)