

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: P509364

Luminaire Tested: **VERD-CA2-80-740-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509364  
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-CA2-80-740-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10568 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

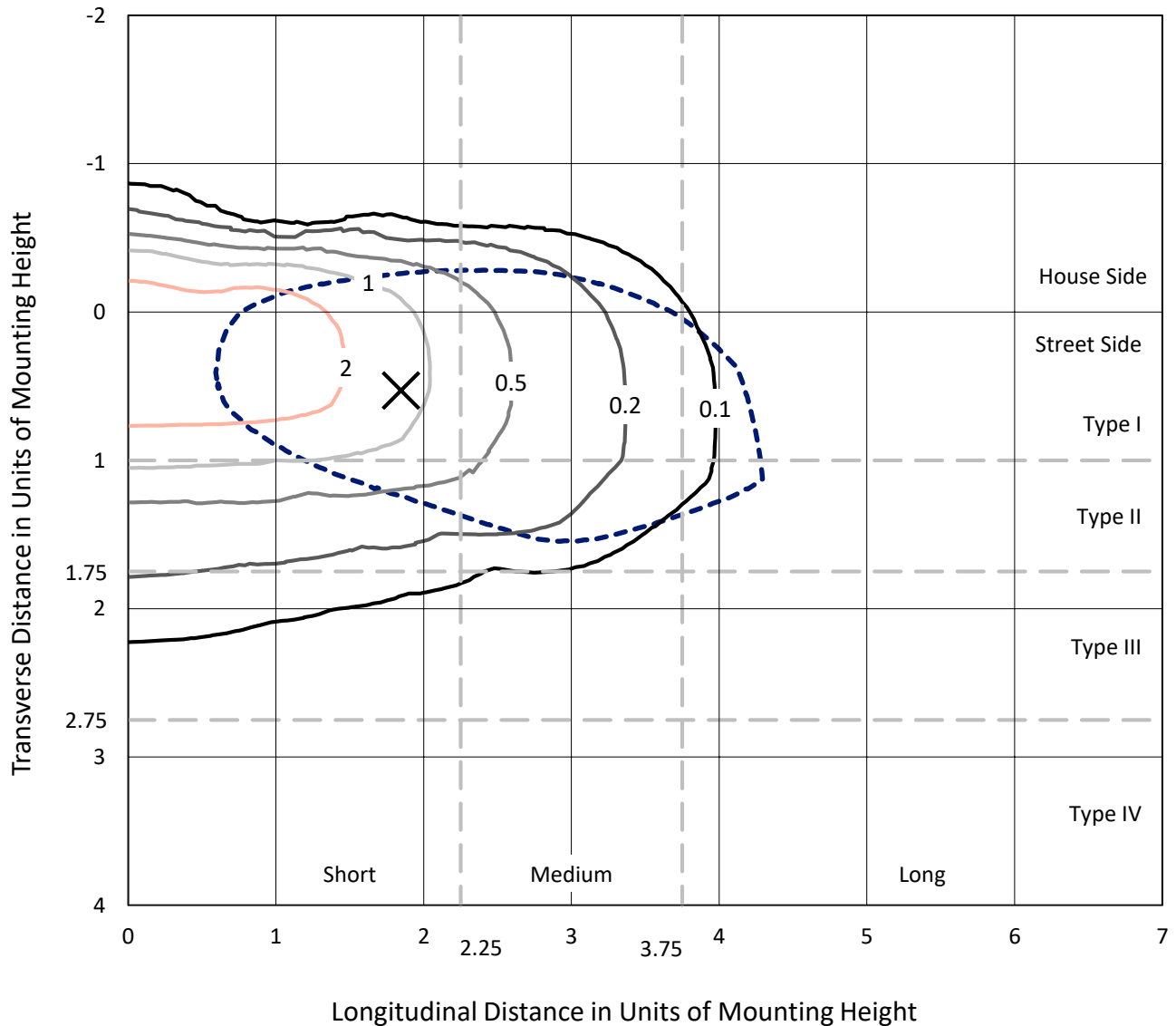
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

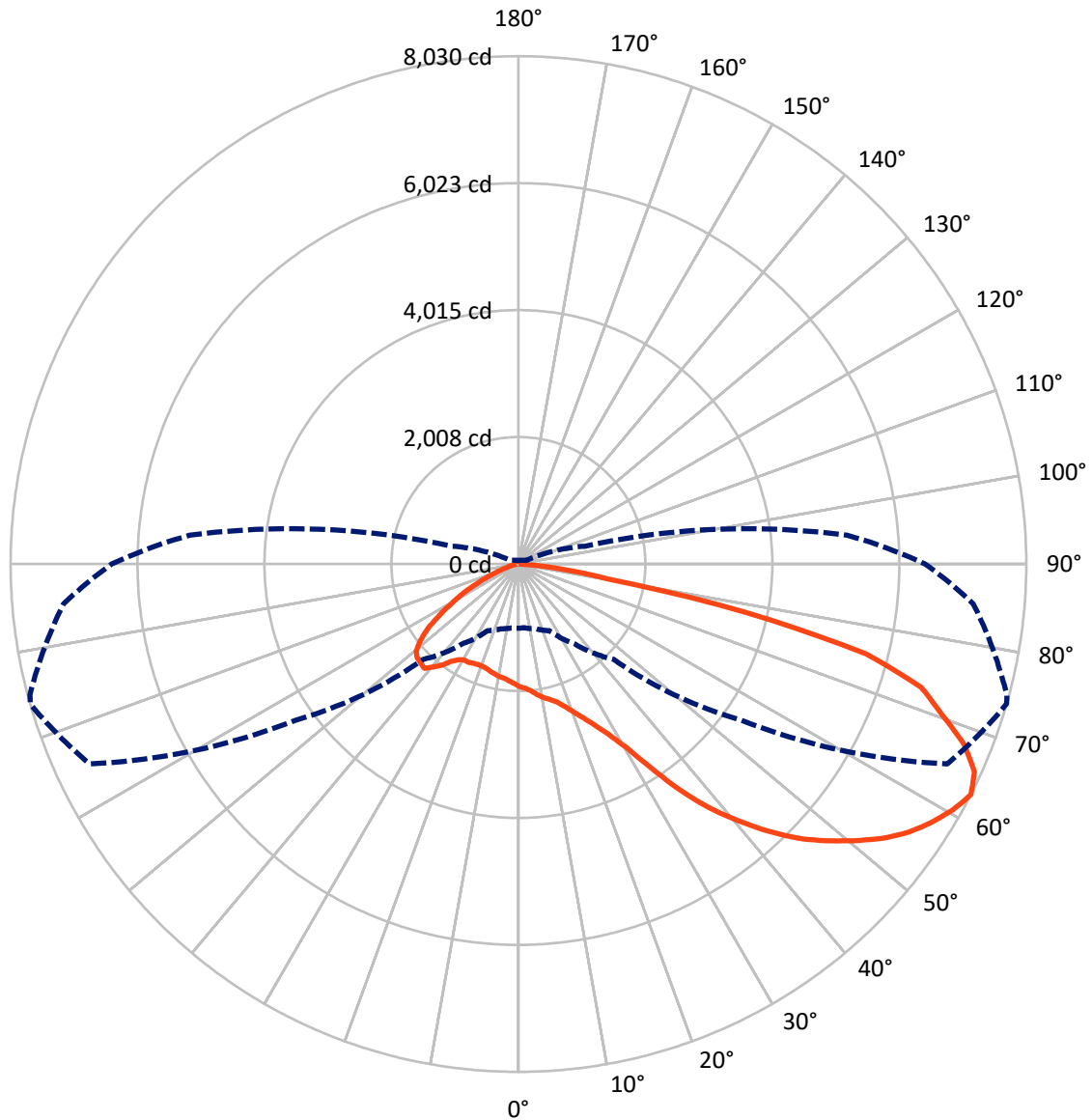
✕ Max cd  
 - - - 1/2 Max cd



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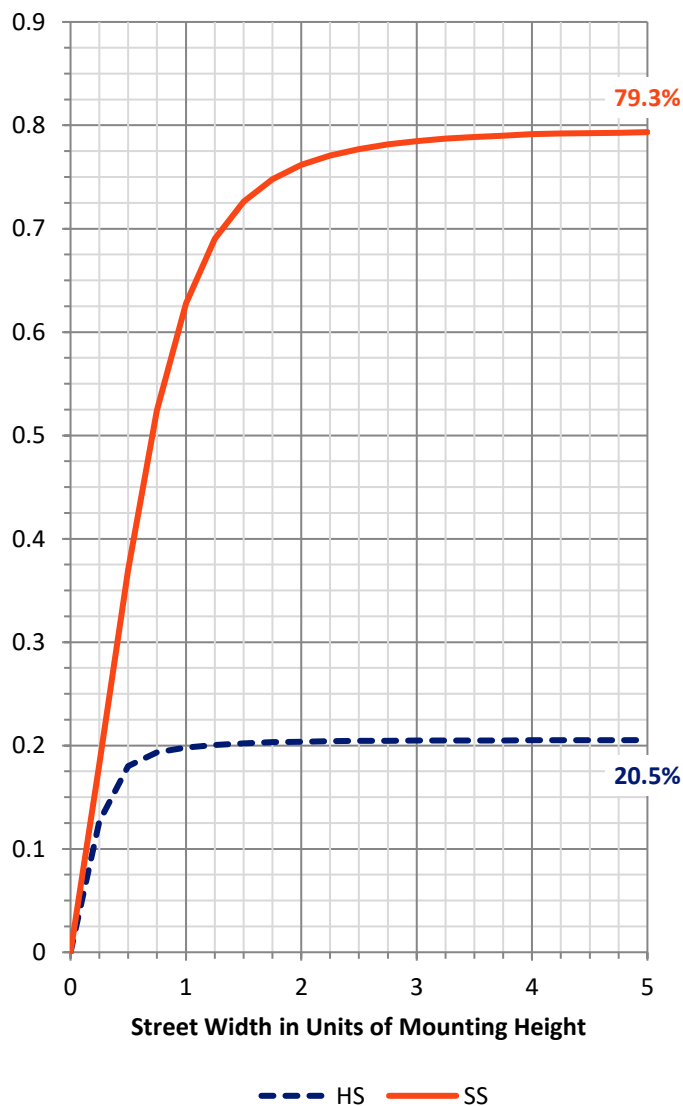
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2194.5	0.0	2194.5
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	8373.5	0.0	8373.5
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	10568.0	0.0	10568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	1.7
10°-20°	557.8	5.3
20°-30°	941.7	8.9
30°-40°	1400.7	13.3
40°-50°	1895.7	17.9
50°-60°	2181.0	20.6
60°-70°	2105.2	19.9
70°-80°	1191.9	11.3
80°-90°	109.3	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°	10568.0	100.0
0°-180°	10568.0	100.0

**Coefficient of Utilization**



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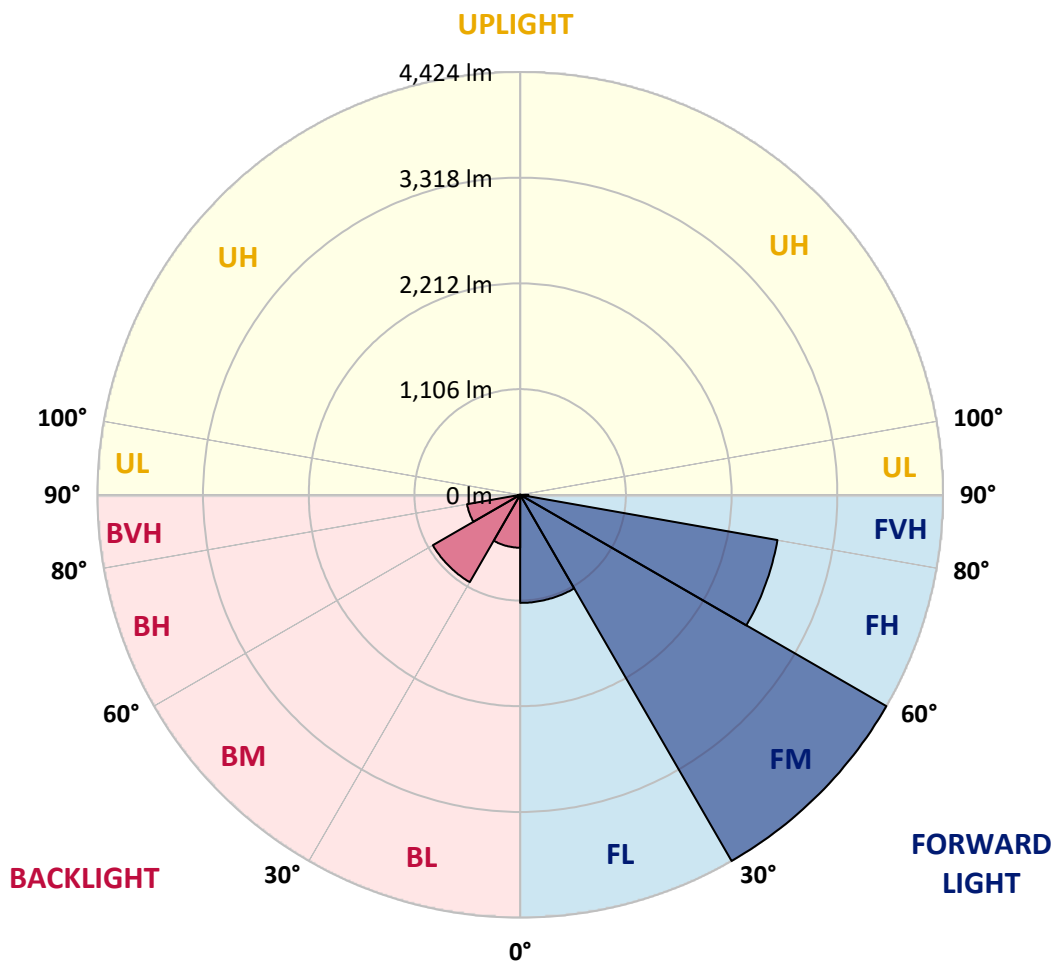
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.8	10.7			
FM (30°-60°)	4423.6	41.9			
FH (60°-80°)	2733.0	25.9			G2/5000
FVH (80°-90°)	86.2	0.8			G1/100
BL (0°-30°)	553.3	5.2	B2/1000		
BM (30°-60°)	1053.8	10.0	B2/2500		
BH (60°-80°)	564.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	23.2	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°	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1
2.5°	2112.1	2098.3	2086.9	2080.6	2063.0	2047.9	2017.7	1986.2	1964.8	1963.5	1943.4
5°	2200.3	2199.0	2173.8	2168.8	2144.9	2137.3	2107.1	2061.7	2008.9	2002.6	1948.4
7.5°	2316.2	2302.3	2274.6	2263.3	2235.6	2215.4	2175.1	2132.3	2079.4	2073.1	1978.6
10°	2428.3	2420.7	2404.3	2405.6	2366.5	2328.8	2268.3	2195.3	2144.9	2137.3	2021.4
12.5°	2558.0	2534.0	2506.3	2491.2	2452.2	2428.3	2370.3	2274.6	2195.3	2187.7	2071.8
15°	2647.4	2634.8	2609.6	2599.5	2561.8	2522.7	2456.0	2381.7	2262.0	2254.4	2123.5
17.5°	2743.1	2736.8	2707.9	2701.6	2665.0	2618.4	2566.8	2469.8	2365.3	2352.7	2185.2
20°	2807.4	2796.0	2792.2	2791.0	2780.9	2751.9	2686.4	2610.9	2495.0	2472.3	2264.5
22.5°	2893.0	2881.7	2886.7	2891.7	2905.6	2893.0	2850.2	2760.8	2646.1	2626.0	2389.2
25°	2901.8	2894.3	2928.3	2998.8	3026.5	3040.4	3007.6	2938.3	2827.5	2801.1	2537.8
27.5°	2925.7	2914.4	2950.9	3025.2	3149.9	3171.3	3177.6	3144.9	3051.7	3036.6	2739.3
30°	2882.9	2875.4	2932.0	3059.2	3199.0	3320.0	3366.6	3411.9	3369.1	3342.6	3020.2
32.5°	2778.4	2783.4	2857.7	3026.5	3284.7	3471.1	3592.0	3752.0	3828.8	3823.7	3517.7
35°	2626.0	2623.5	2748.2	2986.2	3292.2	3613.4	3838.9	4163.8	4379.2	4364.1	4040.4
37.5°	2496.3	2490.0	2631.0	2884.2	3298.5	3726.8	4128.5	4613.4	4886.7	4871.6	4467.3
40°	2337.6	2347.6	2473.6	2765.8	3245.6	3811.2	4380.4	5050.5	5330.1	5330.1	4909.4
42.5°	2177.6	2186.4	2311.1	2600.8	3168.8	3872.9	4617.2	5486.2	5770.9	5777.2	5212.9
45°	2037.8	2041.6	2154.9	2415.7	3030.3	3882.9	4835.1	5923.3	6184.0	6167.6	5559.3
47.5°	1792.2	1833.8	2011.4	2249.4	2841.4	3838.9	5019.0	6312.5	6539.2	6505.2	5889.3
50°	1428.2	1428.2	1673.8	2090.7	2624.7	3721.7	5163.8	6667.6	6876.7	6845.2	6177.7
52.5°	1312.4	1314.9	1390.5	1867.8	2405.6	3520.2	5246.9	7020.3	7207.9	7186.5	6451.0
55°	1250.7	1254.4	1289.7	1513.9	2206.6	3211.6	5249.5	7293.6	7488.8	7440.9	6681.5
57.5°	1157.5	1151.2	1225.5	1348.9	1973.6	2813.7	5126.0	7505.2	7706.7	7670.2	6870.4
60°	1092.0	1081.9	1132.3	1243.1	1723.0	2401.8	4797.3	7658.8	7893.1	7914.5	7055.5
62.5°	1015.1	1011.4	1059.2	1163.7	1537.8	2132.3	4303.6	7480.0	8030.4	7996.4	7219.3
65°	938.3	930.7	976.1	1058.0	1359.0	1911.9	3806.1	7215.5	7924.6	7954.8	7252.0
67.5°	837.5	836.3	879.1	939.6	1163.7	1665.0	3085.7	6867.9	7597.1	7575.7	6954.8
70°	715.4	715.4	758.2	811.1	972.3	1420.7	2369.1	6272.2	7093.3	7218.0	6446.0
72.5°	578.1	580.6	623.4	683.9	802.3	1157.5	1746.9	5454.8	6656.3	6456.0	5728.1
75°	308.6	277.1	488.7	550.4	647.4	923.2	1195.2	3546.7	5676.4	5537.9	4752.0
77.5°	74.3	78.1	153.7	285.9	345.1	511.3	588.2	1642.3	3660.0	3880.4	3389.2
80°	49.1	54.2	83.1	202.8	230.5	272.0	233.0	715.4	1419.4	1512.6	1967.3
82.5°	25.2	27.7	51.6	80.6	81.9	70.5	88.2	360.2	750.6	813.6	945.9
85°	8.8	13.9	26.4	35.3	32.7	26.4	21.4	89.4	177.6	197.7	205.3
87.5°	0.0	0.0	3.8	3.8	2.5	2.5	3.8	3.8	5.0	3.8	3.8
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°	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1
2.5°	1927.0	1913.1	1891.7	1869.1	1845.1	1825.0	1813.6	1819.9	1827.5	1803.6	1794.7
5°	1923.2	1899.3	1859.0	1811.1	1774.6	1738.1	1695.2	1685.2	1675.1	1662.5	1648.6
7.5°	1940.8	1905.6	1823.7	1779.6	1702.8	1634.8	1597.0	1569.3	1544.1	1521.4	1507.6
10°	1973.6	1908.1	1816.2	1726.7	1642.3	1559.2	1477.4	1461.0	1455.9	1423.2	1399.3
12.5°	1995.0	1914.4	1789.7	1681.4	1560.5	1471.1	1389.2	1342.6	1338.8	1323.7	1307.3
15°	2029.0	1939.6	1772.1	1624.7	1477.4	1382.9	1307.3	1246.9	1216.6	1215.4	1202.8
17.5°	2090.7	1968.5	1744.4	1566.8	1410.6	1304.8	1196.5	1173.8	1123.4	1094.5	1086.9
20°	2153.7	2011.4	1736.8	1508.8	1323.7	1192.7	1109.6	1046.6	1006.3	976.1	957.2
22.5°	2235.6	2073.1	1739.3	1474.8	1253.2	1108.3	1000.0	906.8	832.5	796.0	778.4
25°	2353.9	2144.9	1758.2	1423.2	1170.0	1017.7	860.2	736.8	632.3	605.8	593.2
27.5°	2505.1	2245.6	1784.7	1370.3	1093.2	895.5	691.4	552.9	466.0	445.9	433.3
30°	2736.8	2396.8	1788.4	1337.6	1023.9	736.8	517.6	409.3	341.3	319.9	322.4
32.5°	3172.6	2720.5	1838.8	1269.5	900.5	565.5	380.4	298.5	246.9	239.3	251.9
35°	3678.9	3102.1	1935.8	1234.3	759.5	409.3	272.0	219.1	186.4	196.5	201.5
37.5°	4005.1	3438.3	2090.7	1153.7	594.5	301.0	190.2	171.3	165.0	171.3	182.6
40°	4385.5	3711.7	2223.0	1071.8	421.9	206.6	152.4	156.2	148.6	147.4	152.4
42.5°	4694.0	3992.5	2364.0	937.0	293.5	153.7	139.8	142.3	137.3	131.0	131.0
45°	4987.5	4235.6	2362.8	755.7	194.0	136.0	128.5	133.5	132.2	123.4	122.2
47.5°	5244.4	4481.2	2364.0	549.1	147.4	124.7	119.6	124.7	124.7	117.1	115.9
50°	5563.1	4685.2	2326.2	351.4	134.8	115.9	114.6	113.4	118.4	108.3	105.8
52.5°	5758.3	4833.8	2156.2	236.8	124.7	109.6	107.1	104.5	107.1	98.2	98.2
55°	5972.4	5019.0	1934.5	187.7	118.4	102.0	100.8	98.2	98.2	88.2	89.4
57.5°	6205.4	5170.1	1636.0	165.0	113.4	97.0	94.5	90.7	85.6	78.1	76.8
60°	6374.2	5201.6	1338.8	149.9	109.6	94.5	84.4	79.3	70.5	65.5	64.2
62.5°	6430.8	5218.0	1085.7	134.8	103.3	86.9	75.6	66.8	56.7	52.9	52.9
65°	6384.2	5029.1	813.6	122.2	95.7	80.6	66.8	54.2	44.1	40.3	39.0
67.5°	6084.5	4681.4	591.9	109.6	84.4	73.0	57.9	44.1	35.3	31.5	31.5
70°	5539.1	4272.1	400.5	91.9	73.0	64.2	54.2	35.3	29.0	25.2	23.9
72.5°	4944.7	3622.2	255.7	74.3	56.7	50.4	39.0	30.2	23.9	18.9	18.9
75°	3910.6	2845.1	177.6	54.2	40.3	37.8	30.2	25.2	20.2	15.1	15.1
77.5°	2721.7	1848.9	139.8	41.6	27.7	25.2	22.7	18.9	16.4	12.6	11.3
80°	1578.1	1112.1	84.4	27.7	18.9	16.4	15.1	15.1	12.6	8.8	8.8
82.5°	783.4	463.5	36.5	17.6	12.6	11.3	10.1	8.8	8.8	6.3	6.3
85°	153.7	79.3	13.9	8.8	6.3	6.3	5.0	5.0	3.8	2.5	2.5
87.5°	5.0	3.8	3.8	3.8	2.5	2.5	1.3	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)