

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: P509052

Luminaire Tested: **VERD-CA2-100-722-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509052  
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-CA2-100-722-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10337 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

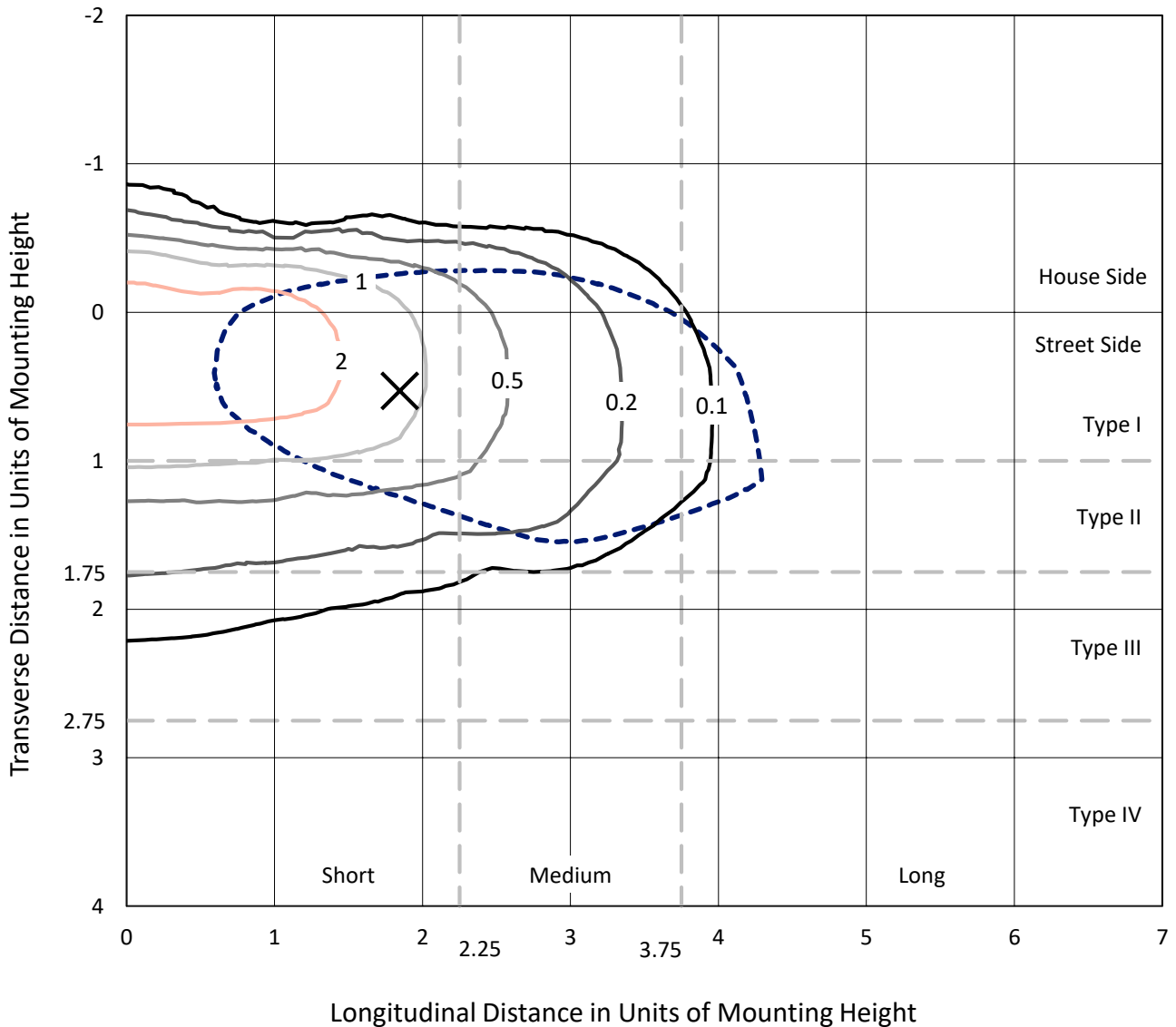
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509052  
 CATALOG NUMBER: VERD-CA2-100-722-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

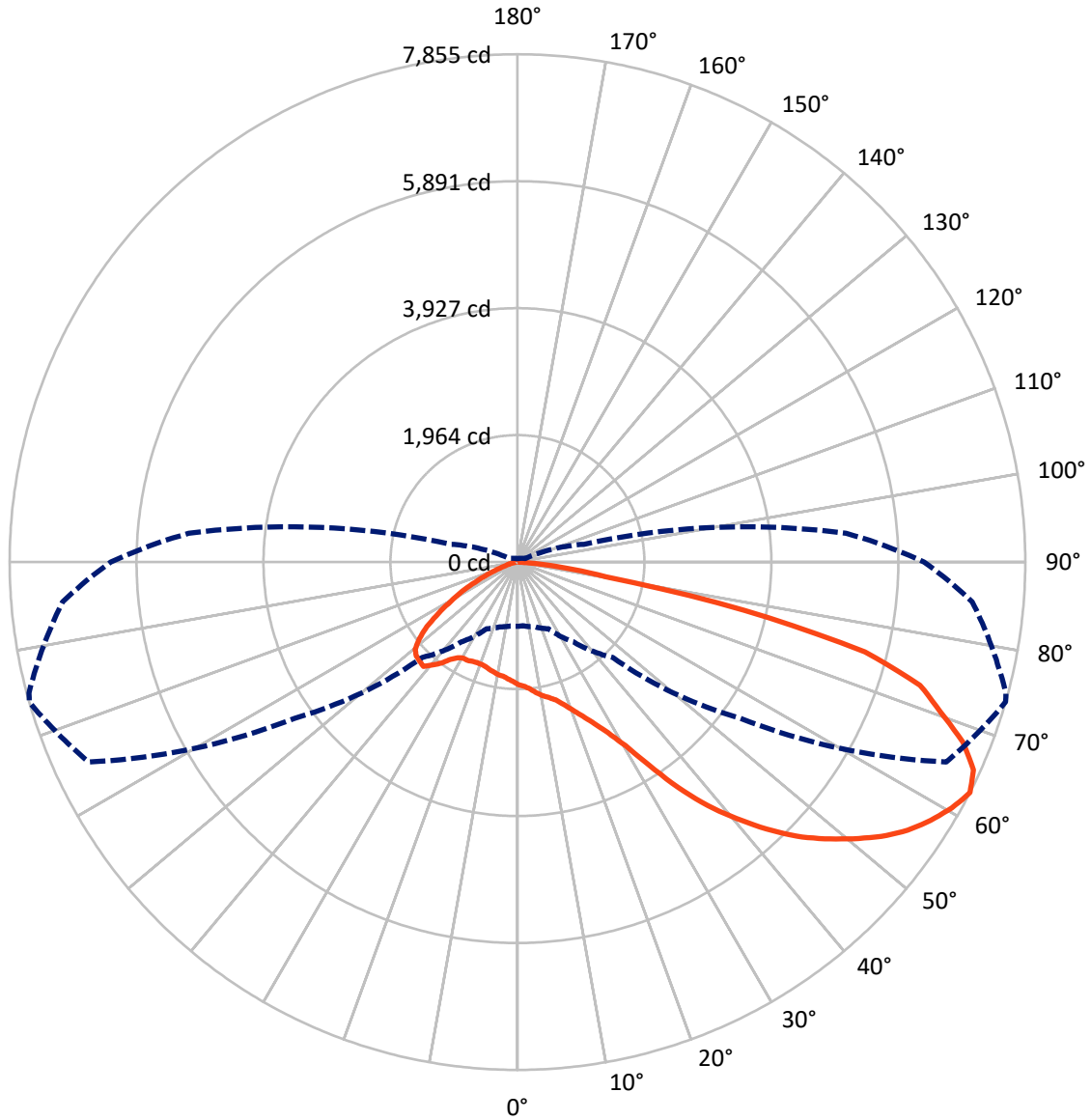
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P509052  
CATALOG NUMBER: VERD-CA2-100-722-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509052  
 CATALOG NUMBER: VERD-CA2-100-722-U-T2-HSS

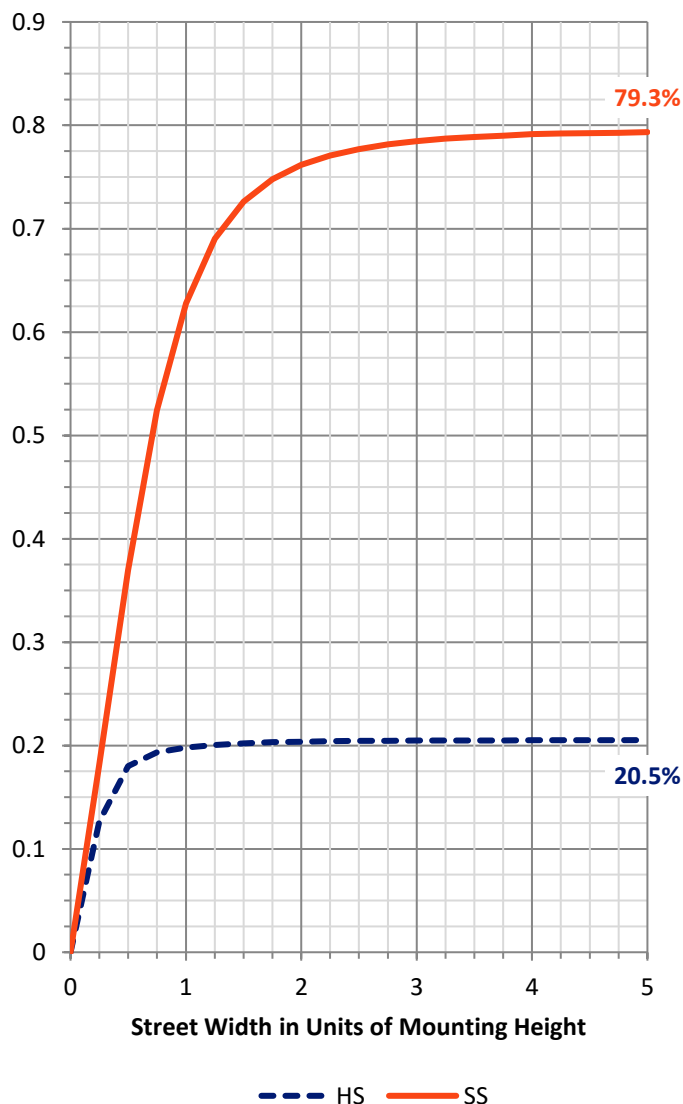
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2146.5	0.0	2146.5
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	8190.5	0.0	8190.5
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	10337.0	0.0	10337.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	1.7
10°-20°	545.6	5.3
20°-30°	921.1	8.9
30°-40°	1370.0	13.3
40°-50°	1854.3	17.9
50°-60°	2133.3	20.6
60°-70°	2059.2	19.9
70°-80°	1165.9	11.3
80°-90°	106.9	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°	10337.0	100.0
0°-180°	10337.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509052

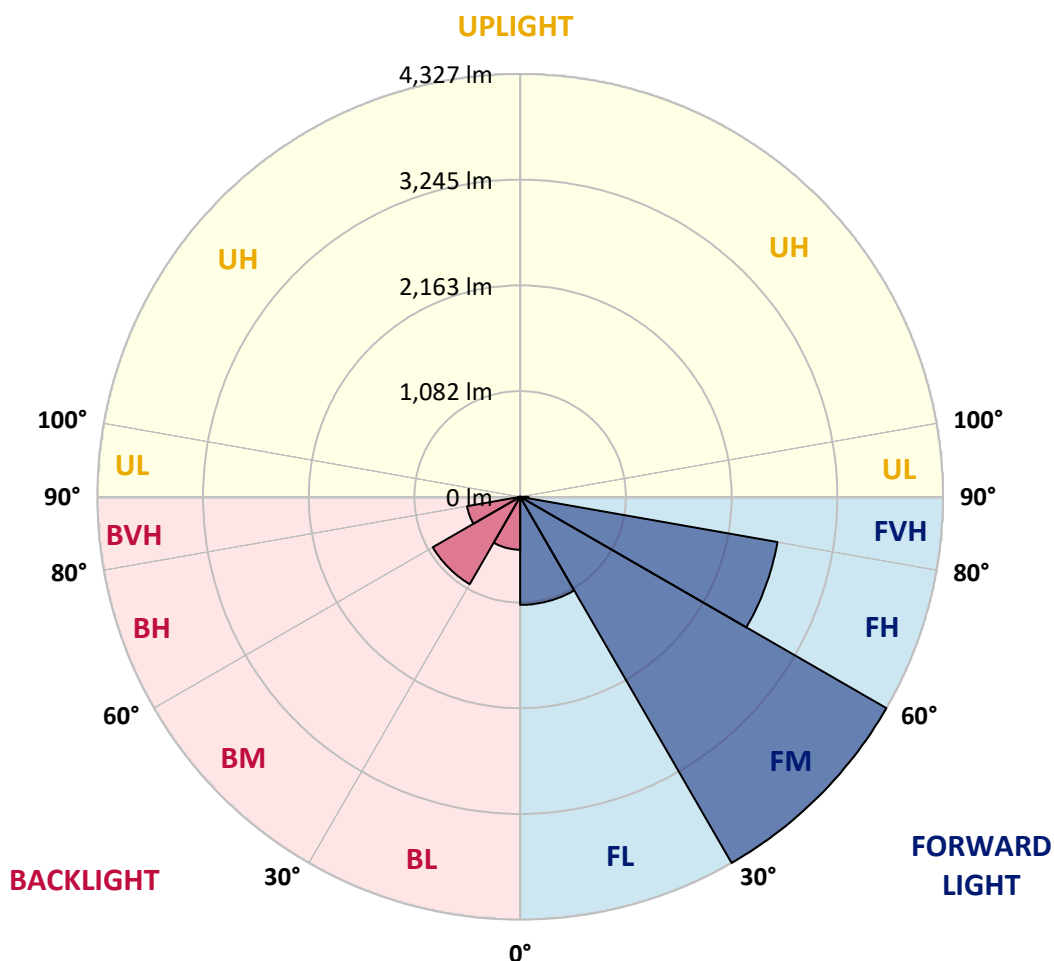
CATALOG NUMBER: VERD-CA2-100-722-U-T2-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.1	10.7			
FM	(30°-60°)	4326.9	41.9			
FH	(60°-80°)	2673.3	25.9			G2/5000
FVH	(80°-90°)	84.3	0.8			G1/100
BL	(0°-30°)	541.2	5.2	B2/1000		
BM	(30°-60°)	1030.8	10.0	B2/2500		
BH	(60°-80°)	551.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	22.7	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





REPORT NUMBER: P509052

CATALOG NUMBER: VERD-CA2-100-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	2066.0	2052.4	2041.3	2035.2	2017.9	2003.1	1973.6	1942.8	1921.8	1920.6	1900.9
5°	2152.2	2151.0	2126.3	2121.4	2098.0	2090.6	2061.0	2016.7	1964.9	1958.8	1905.8
7.5°	2265.5	2252.0	2224.9	2213.8	2186.7	2167.0	2127.6	2085.7	2033.9	2027.8	1935.4
10°	2375.2	2367.8	2351.8	2353.0	2314.8	2277.9	2218.7	2147.3	2098.0	2090.6	1977.3
12.5°	2502.1	2478.7	2451.6	2436.8	2398.6	2375.2	2318.5	2224.9	2147.3	2139.9	2026.5
15°	2589.5	2577.2	2552.6	2542.7	2505.8	2467.6	2402.3	2329.6	2212.6	2205.2	2077.0
17.5°	2683.2	2677.0	2648.7	2642.5	2606.8	2561.2	2510.7	2415.8	2313.6	2301.3	2137.4
20°	2746.0	2734.9	2731.2	2730.0	2720.1	2691.8	2627.7	2553.8	2440.5	2418.3	2215.0
22.5°	2829.8	2818.7	2823.6	2828.5	2842.1	2829.8	2787.9	2700.4	2588.3	2568.6	2337.0
25°	2838.4	2831.0	2864.3	2933.2	2960.3	2973.9	2941.9	2874.1	2765.7	2739.8	2482.4
27.5°	2861.8	2850.7	2886.4	2959.1	3081.1	3102.0	3108.2	3076.1	2985.0	2970.2	2679.5
30°	2819.9	2812.5	2868.0	2992.4	3129.1	3247.4	3293.0	3337.3	3295.4	3269.6	2954.2
32.5°	2717.7	2722.6	2795.3	2960.3	3212.9	3395.2	3513.5	3669.9	3745.1	3740.2	3440.8
35°	2568.6	2566.1	2688.1	2920.9	3220.3	3534.4	3754.9	4072.8	4283.4	4268.7	3952.1
37.5°	2441.7	2435.5	2573.5	2821.1	3226.4	3645.3	4038.3	4512.6	4779.9	4765.1	4369.7
40°	2286.5	2296.3	2419.5	2705.3	3174.7	3727.8	4284.7	4940.1	5213.6	5213.6	4802.1
42.5°	2130.0	2138.6	2260.6	2544.0	3099.6	3788.2	4516.3	5366.3	5644.7	5650.9	5099.0
45°	1993.3	1997.0	2107.8	2362.9	2964.0	3798.1	4729.4	5793.8	6048.8	6032.8	5437.8
47.5°	1753.0	1793.7	1967.4	2200.2	2779.3	3754.9	4909.3	6174.5	6396.2	6363.0	5760.5
50°	1397.0	1397.0	1637.2	2045.0	2567.4	3640.4	5050.9	6521.9	6726.4	6695.6	6042.7
52.5°	1283.7	1286.1	1360.1	1827.0	2353.0	3443.3	5132.3	6866.8	7050.4	7029.4	6310.0
55°	1223.3	1227.0	1261.5	1480.8	2158.4	3141.4	5134.7	7134.2	7325.1	7278.3	6535.4
57.5°	1132.2	1126.0	1198.7	1319.4	1930.4	2752.1	5014.0	7341.1	7538.2	7502.5	6720.2
60°	1068.1	1058.2	1107.5	1215.9	1685.3	2349.3	4692.5	7491.4	7720.6	7741.5	6901.3
62.5°	992.9	989.2	1036.1	1138.3	1504.2	2085.7	4209.5	7316.5	7854.8	7821.6	7061.5
65°	917.8	910.4	954.8	1034.8	1329.3	1870.1	3722.9	7057.8	7751.4	7780.9	7093.5
67.5°	819.2	818.0	859.9	919.0	1138.3	1628.6	3018.2	6717.8	7431.1	7410.1	6802.8
70°	699.7	699.7	741.6	793.4	951.1	1389.6	2317.3	6135.1	6938.3	7060.2	6305.1
72.5°	565.5	567.9	609.8	668.9	784.7	1132.2	1708.7	5335.5	6510.8	6314.9	5602.9
75°	301.8	271.0	478.0	538.4	633.2	903.0	1169.1	3469.1	5552.3	5416.8	4648.1
77.5°	72.7	76.4	150.3	279.6	337.6	500.2	575.3	1606.4	3580.0	3795.6	3315.1
80°	48.0	53.0	81.3	198.3	225.4	266.1	227.9	699.7	1388.4	1479.6	1924.3
82.5°	24.6	27.1	50.5	78.8	80.1	69.0	86.2	352.3	734.2	795.8	925.2
85°	8.6	13.6	25.9	34.5	32.0	25.9	20.9	87.5	173.7	193.4	200.8
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



REPORT NUMBER: P509052

CATALOG NUMBER: VERD-CA2-100-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1884.9	1871.3	1850.4	1828.2	1804.8	1785.1	1774.0	1780.2	1787.5	1764.1	1755.5
5°	1881.2	1857.8	1818.3	1771.5	1735.8	1700.1	1658.2	1648.3	1638.5	1626.2	1612.6
7.5°	1898.4	1863.9	1783.8	1740.7	1665.6	1599.1	1562.1	1535.0	1510.4	1488.2	1474.6
10°	1930.4	1866.4	1776.5	1689.0	1606.4	1525.1	1445.1	1429.0	1424.1	1392.1	1368.7
12.5°	1951.4	1872.5	1750.6	1644.6	1526.4	1438.9	1358.8	1313.2	1309.6	1294.8	1278.8
15°	1984.7	1897.2	1733.3	1589.2	1445.1	1352.7	1278.8	1219.6	1190.1	1188.8	1176.5
17.5°	2045.0	1925.5	1706.2	1532.5	1379.8	1276.3	1170.3	1148.2	1098.9	1070.6	1063.2
20°	2106.6	1967.4	1698.8	1475.9	1294.8	1166.6	1085.3	1023.7	984.3	954.8	936.3
22.5°	2186.7	2027.8	1701.3	1442.6	1225.8	1084.1	978.2	887.0	814.3	778.6	761.3
25°	2302.5	2098.0	1719.8	1392.1	1144.5	995.4	841.4	720.7	618.4	592.6	580.2
27.5°	2450.3	2196.5	1745.7	1340.3	1069.3	875.9	676.3	540.8	455.8	436.1	423.8
30°	2677.0	2344.4	1749.4	1308.3	1001.6	720.7	506.3	400.4	333.9	312.9	315.4
32.5°	3103.3	2661.0	1798.6	1241.8	880.8	553.1	372.0	292.0	241.5	234.1	246.4
35°	3598.5	3034.3	1893.5	1207.3	742.9	400.4	266.1	214.4	182.3	192.2	197.1
37.5°	3917.6	3363.2	2045.0	1128.5	581.5	294.4	186.0	167.5	161.4	167.5	178.6
40°	4289.6	3630.5	2174.4	1048.4	412.7	202.0	149.1	152.8	145.4	144.1	149.1
42.5°	4591.4	3905.2	2312.3	916.6	287.0	150.3	136.7	139.2	134.3	128.1	128.1
45°	4878.5	4143.0	2311.1	739.2	189.7	133.0	125.7	130.6	129.4	120.7	119.5
47.5°	5129.8	4383.2	2312.3	537.1	144.1	122.0	117.0	122.0	122.0	114.6	113.3
50°	5441.5	4582.8	2275.4	343.7	131.8	113.3	112.1	110.9	115.8	105.9	103.5
52.5°	5632.4	4728.2	2109.1	231.6	122.0	107.2	104.7	102.3	104.7	96.1	96.1
55°	5841.9	4909.3	1892.3	183.6	115.8	99.8	98.6	96.1	96.1	86.2	87.5
57.5°	6069.8	5057.1	1600.3	161.4	110.9	94.9	92.4	88.7	83.8	76.4	75.1
60°	6234.8	5087.9	1309.6	146.6	107.2	92.4	82.5	77.6	69.0	64.1	62.8
62.5°	6290.3	5103.9	1061.9	131.8	101.0	85.0	73.9	65.3	55.4	51.7	51.7
65°	6244.7	4919.1	795.8	119.5	93.6	78.8	65.3	53.0	43.1	39.4	38.2
67.5°	5951.5	4579.1	579.0	107.2	82.5	71.5	56.7	43.1	34.5	30.8	30.8
70°	5418.1	4178.7	391.8	89.9	71.5	62.8	53.0	34.5	28.3	24.6	23.4
72.5°	4836.6	3543.1	250.1	72.7	55.4	49.3	38.2	29.6	23.4	18.5	18.5
75°	3825.2	2782.9	173.7	53.0	39.4	37.0	29.6	24.6	19.7	14.8	14.8
77.5°	2662.2	1808.5	136.7	40.7	27.1	24.6	22.2	18.5	16.0	12.3	11.1
80°	1543.6	1087.8	82.5	27.1	18.5	16.0	14.8	14.8	12.3	8.6	8.6
82.5°	766.3	453.4	35.7	17.2	12.3	11.1	9.9	8.6	8.6	6.2	6.2
85°	150.3	77.6	13.6	8.6	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)