

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: P509101

Luminaire Tested: **VERD-CA2-110-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13026 lumens
Efficiency: N/A
Efficacy: 114.7 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

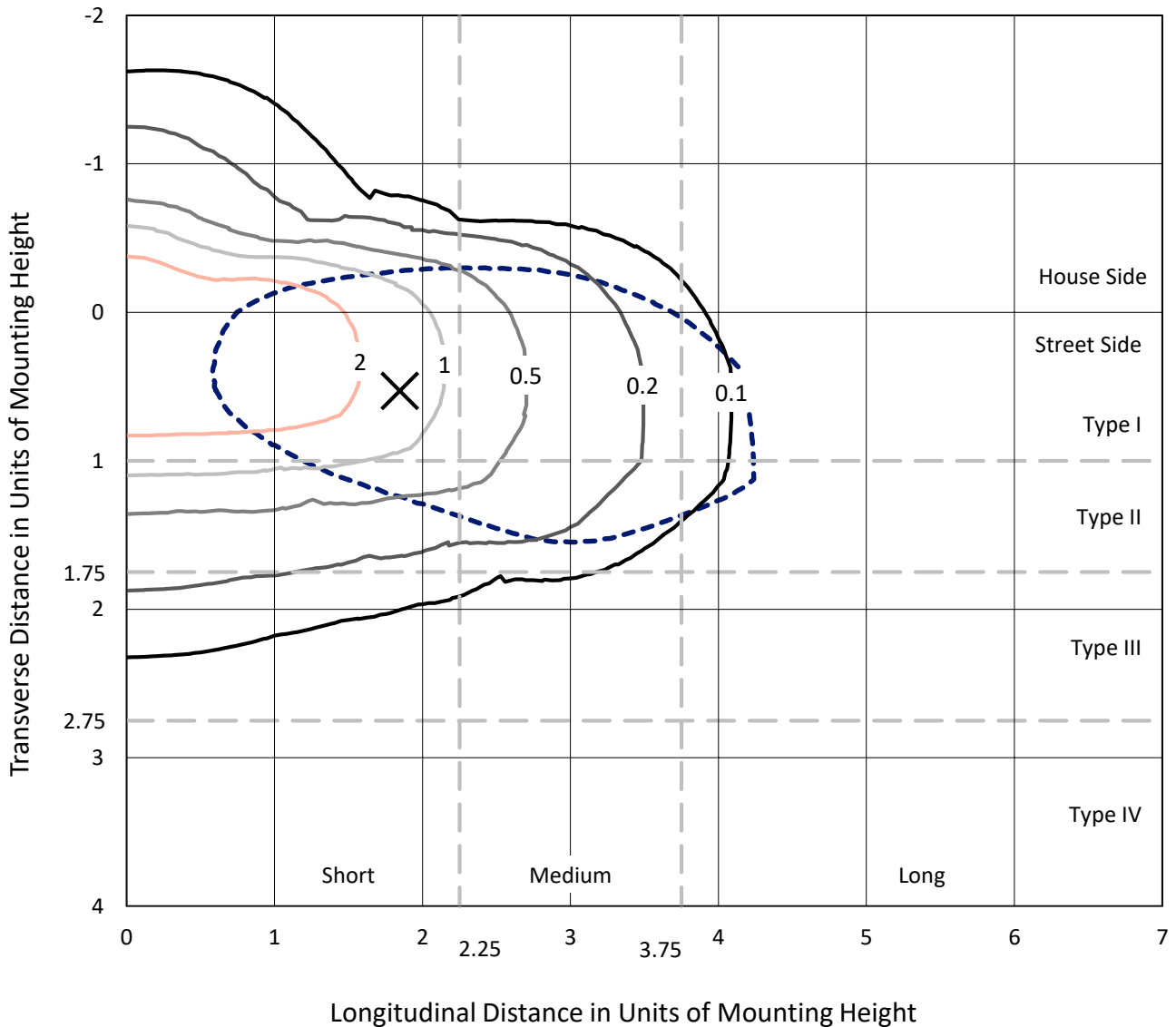
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509101
 CATALOG NUMBER: VERD-CA2-110-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

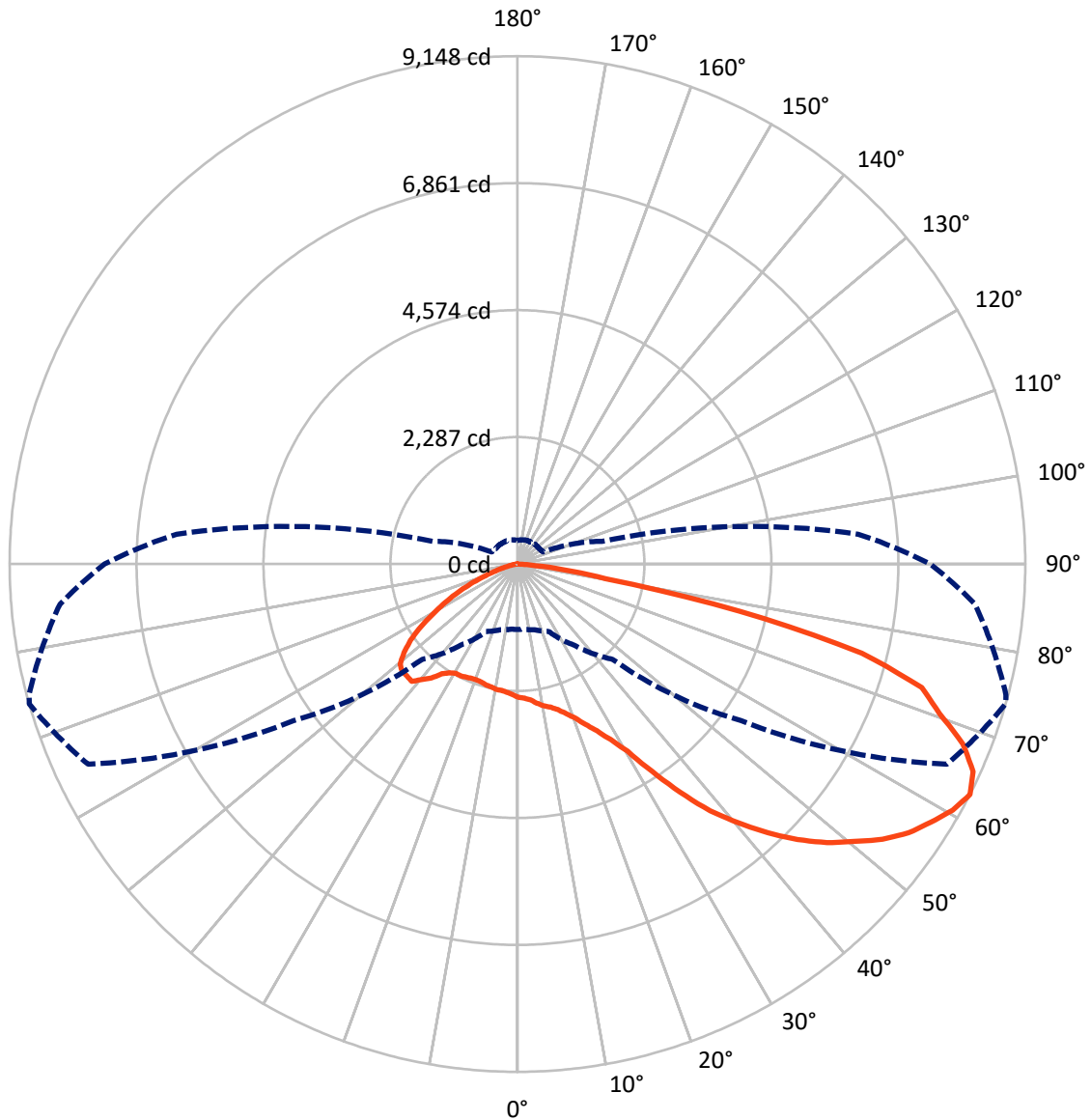
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

REPORT NUMBER: P509101
CATALOG NUMBER: VERD-CA2-110-722-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509101

CATALOG NUMBER: VERD-CA2-110-722-U-T2

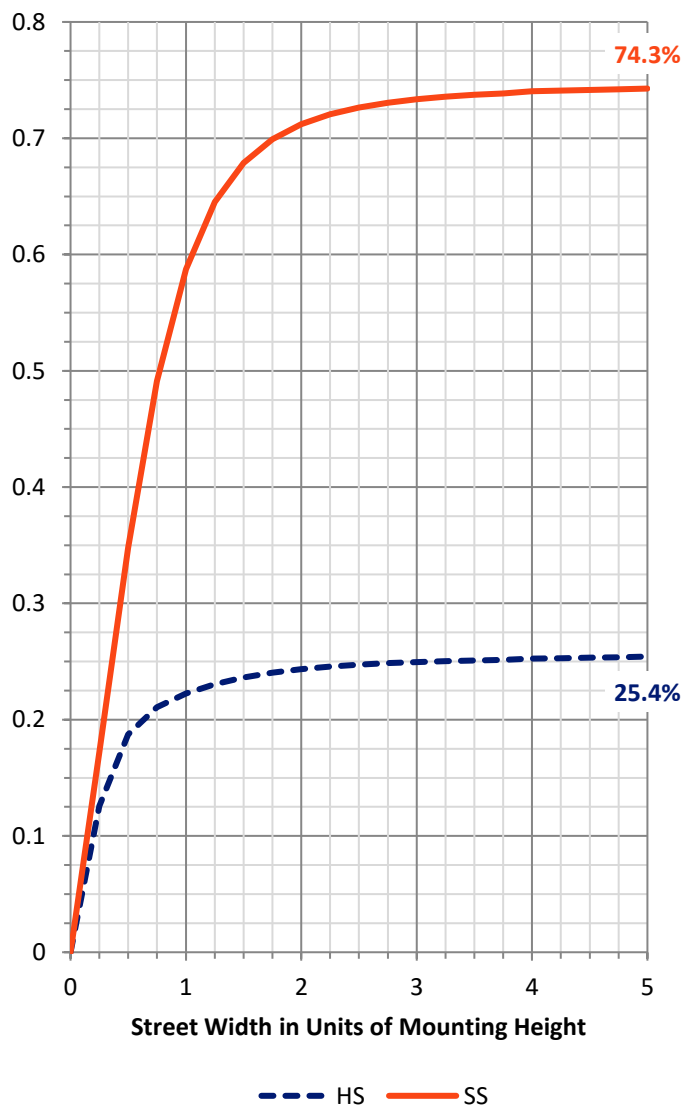
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3363.4	0.0	3363.4
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	9662.6	0.0	9662.6
	% Fixture	74.2	0.0	74.2
Total	Lumens	13026.0	0.0	13026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.8
10°-20°	703.7	5.4
20°-30°	1186.6	9.1
30°-40°	1733.6	13.3
40°-50°	2308.3	17.7
50°-60°	2656.5	20.4
60°-70°	2567.1	19.7
70°-80°	1477.8	11.3
80°-90°	161.7	1.2
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°	13026.0	100.0
0°-180°	13026.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509101

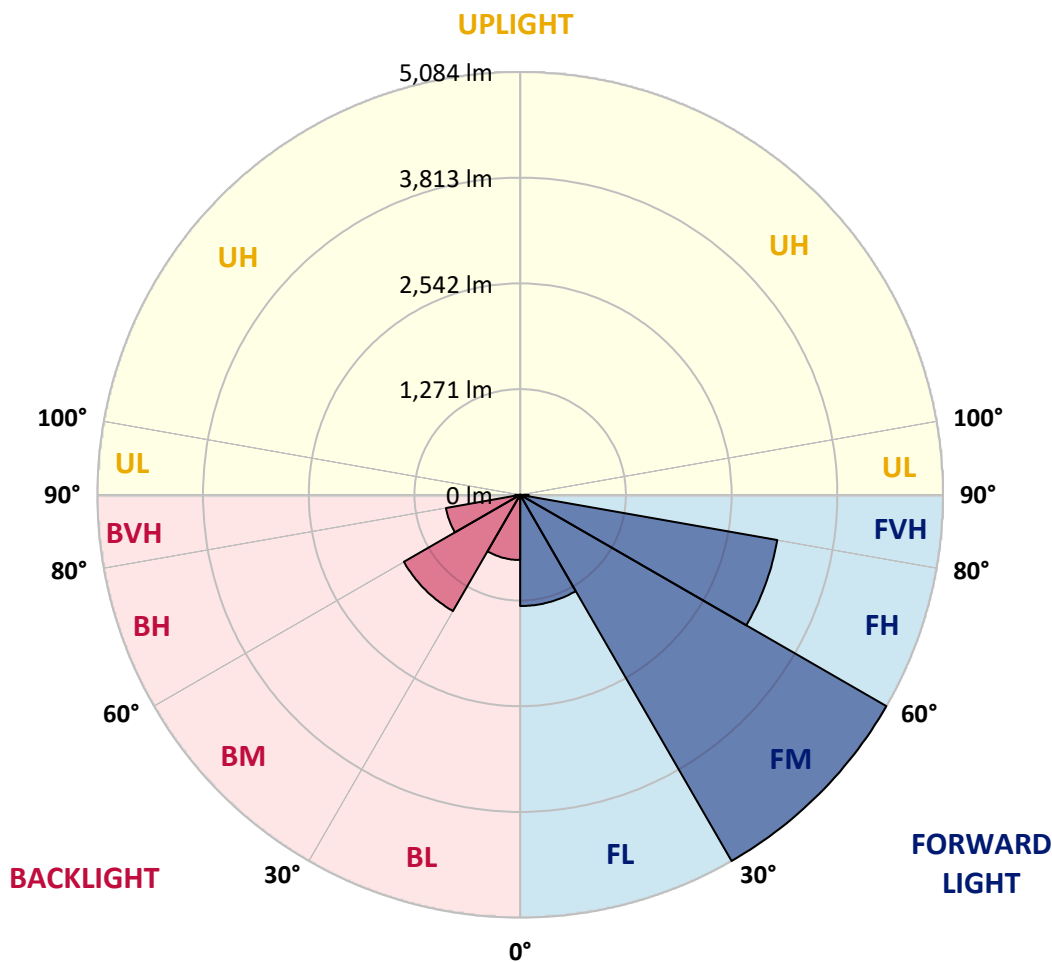
CATALOG NUMBER: VERD-CA2-110-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.9	10.3			
FM (30°-60°)	5084.1	39.0			
FH (60°-80°)	3139.4	24.1			G2/5000
FVH (80°-90°)	102.3	0.8			G2/225
BL (0°-30°)	784.1	6.0	B2/1000		
BM (30°-60°)	1614.4	12.4	B2/2500		
BH (60°-80°)	905.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	59.4	0.5			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: P509101
 CATALOG NUMBER: VERD-CA2-110-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2571.0	2552.5	2541.1	2528.3	2512.7	2507.0	2472.9	2443.1	2419.0	2420.4	2404.8
5°	2664.7	2644.8	2619.2	2615.0	2595.1	2590.8	2558.2	2511.3	2458.7	2451.6	2404.8
7.5°	2769.8	2758.5	2742.8	2722.9	2690.3	2669.0	2622.1	2585.2	2531.2	2524.1	2431.8
10°	2897.7	2889.1	2877.8	2877.8	2835.2	2789.7	2732.9	2640.6	2597.9	2590.8	2478.6
12.5°	3048.2	3022.6	2985.7	2964.4	2924.6	2896.2	2835.2	2737.1	2644.8	2642.0	2522.7
15°	3146.2	3124.9	3100.8	3092.2	3041.1	2994.2	2928.9	2850.8	2721.5	2711.6	2576.6
17.5°	3255.6	3235.7	3207.3	3191.7	3159.0	3105.0	3046.8	2944.5	2829.5	2819.5	2637.7
20°	3316.7	3295.4	3286.8	3289.7	3278.3	3251.3	3181.7	3089.4	2957.3	2944.5	2721.5
22.5°	3384.9	3370.7	3373.5	3394.8	3416.1	3406.2	3352.2	3249.9	3136.3	3116.4	2856.5
25°	3386.3	3374.9	3413.3	3495.6	3541.1	3563.8	3535.4	3451.6	3330.9	3312.4	3028.3
27.5°	3410.4	3393.4	3434.6	3521.2	3659.0	3705.9	3715.8	3684.6	3580.9	3558.1	3234.3
30°	3347.9	3336.6	3399.1	3549.6	3711.6	3867.8	3924.6	3972.9	3914.7	3916.1	3552.5
32.5°	3240.0	3220.1	3315.3	3499.9	3801.0	4014.1	4164.7	4359.3	4448.7	4440.2	4106.4
35°	3034.0	3045.4	3173.2	3455.9	3803.9	4163.2	4458.7	4806.7	5049.6	5043.9	4680.3
37.5°	2887.7	2882.0	3032.6	3332.3	3802.5	4295.3	4744.2	5323.7	5637.6	5629.1	5173.2
40°	2711.6	2713.0	2863.6	3178.9	3735.7	4377.7	5039.6	5813.8	6133.4	6120.6	5644.7
42.5°	2522.7	2528.3	2669.0	2991.4	3643.4	4440.2	5303.8	6309.5	6619.1	6630.5	6022.6
45°	2353.6	2356.5	2495.7	2791.1	3480.0	4447.3	5541.0	6778.2	7079.4	7052.4	6418.9
47.5°	2105.1	2107.9	2313.9	2600.8	3264.1	4389.1	5737.1	7224.2	7499.8	7443.0	6754.1
50°	1649.1	1654.8	1899.1	2403.3	3001.3	4255.6	5891.9	7643.3	7856.3	7832.2	7097.8
52.5°	1522.7	1518.4	1620.7	2167.6	2765.6	4014.1	5989.9	8019.7	8235.6	8232.7	7381.9
55°	1458.8	1454.5	1488.6	1757.1	2534.0	3656.2	5987.1	8312.3	8549.5	8491.3	7641.8
57.5°	1345.1	1336.6	1424.7	1556.8	2275.5	3210.1	5845.0	8575.1	8776.8	8759.7	7876.2
60°	1264.2	1257.1	1316.7	1438.9	1999.9	2757.0	5480.0	8711.4	9005.4	9012.5	8073.7
62.5°	1180.4	1176.1	1227.2	1340.9	1784.0	2426.1	4917.5	8532.4	9147.5	9109.1	8271.1
65°	1085.2	1082.4	1130.7	1223.0	1569.6	2174.7	4366.4	8212.9	9019.7	9063.7	8296.7
67.5°	971.6	970.1	1017.0	1080.9	1335.2	1921.8	3522.6	7836.4	8654.6	8606.3	7968.5
70°	832.4	826.7	884.9	944.6	1117.9	1634.9	2741.4	7167.4	8060.9	8235.6	7315.2
72.5°	700.3	697.4	752.8	796.9	926.1	1335.2	1999.9	6198.7	7616.3	7364.9	6590.7
75°	548.3	534.1	592.3	633.5	730.1	1062.5	1363.6	4140.5	6410.3	6357.8	5536.8
77.5°	221.6	257.1	306.8	343.7	407.7	602.3	713.0	1964.4	4089.4	4269.8	3850.8
80°	85.2	90.9	218.7	247.2	274.1	346.6	274.1	828.1	1613.6	1759.9	2230.1
82.5°	48.3	54.0	108.0	103.7	102.3	88.1	102.3	406.2	842.3	923.3	1076.7
85°	27.0	29.8	44.0	48.3	41.2	35.5	31.2	106.5	210.2	198.9	223.0
87.5°	4.3	5.7	7.1	7.1	4.3	4.3	4.3	5.7	5.7	5.7	7.1
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: P509101
 CATALOG NUMBER: VERD-CA2-110-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2389.1	2373.5	2357.9	2339.4	2316.7	2302.5	2296.8	2303.9	2323.8	2299.7	2279.8
5°	2380.6	2359.3	2323.8	2288.3	2259.9	2235.7	2203.1	2200.2	2205.9	2196.0	2170.4
7.5°	2399.1	2367.8	2295.4	2271.2	2211.6	2154.8	2136.3	2129.2	2112.2	2092.3	2068.1
10°	2436.0	2372.1	2298.2	2227.2	2171.8	2110.7	2039.7	2041.1	2034.0	2011.3	1988.6
12.5°	2454.5	2379.2	2271.2	2196.0	2110.7	2035.5	1965.9	1934.6	1947.4	1928.9	1904.8
15°	2488.6	2409.0	2261.3	2150.5	2034.0	1948.8	1896.3	1850.8	1822.4	1826.7	1812.5
17.5°	2552.5	2436.0	2235.7	2100.8	1974.4	1873.5	1772.7	1768.4	1725.8	1701.7	1680.4
20°	2619.2	2484.3	2232.9	2046.8	1877.8	1752.8	1671.8	1626.4	1600.8	1580.9	1565.3
22.5°	2705.9	2551.1	2242.8	2015.6	1791.1	1650.5	1546.8	1485.8	1444.6	1430.4	1419.0
25°	2828.1	2634.9	2269.8	1960.2	1700.2	1538.3	1397.7	1333.8	1286.9	1275.5	1267.0
27.5°	2995.7	2741.4	2296.8	1900.5	1593.7	1380.6	1231.5	1169.0	1116.4	1115.0	1099.4
30°	3259.9	2904.8	2306.8	1848.0	1480.1	1211.6	1062.5	1004.2	964.5	948.8	960.2
32.5°	3752.7	3265.5	2369.3	1767.0	1336.6	1046.8	920.4	873.6	829.5	812.5	823.8
35°	4285.4	3697.3	2474.4	1711.6	1178.9	890.6	804.0	748.6	694.6	686.1	681.8
37.5°	4676.0	4090.8	2673.2	1620.7	1029.8	795.4	681.8	636.3	605.1	588.1	603.7
40°	5119.2	4417.5	2823.8	1524.1	877.8	694.6	568.2	554.0	539.8	528.4	545.4
42.5°	5470.0	4754.1	3002.8	1396.3	755.7	589.5	505.7	517.0	524.1	518.5	519.9
45°	5792.5	5004.1	3014.1	1201.7	644.9	511.4	487.2	509.9	527.0	524.1	522.7
47.5°	6107.8	5302.4	3041.1	995.7	565.3	491.5	488.6	505.7	528.4	532.7	532.7
50°	6433.1	5529.7	2999.9	801.1	535.5	494.3	492.9	491.5	519.9	521.3	525.6
52.5°	6677.4	5714.3	2805.3	661.9	534.1	502.8	500.0	485.8	498.6	508.5	501.4
55°	6935.9	5944.4	2559.6	609.4	531.2	505.7	517.0	492.9	484.4	475.8	484.4
57.5°	7181.6	6105.0	2237.2	578.1	519.9	501.4	524.1	491.5	473.0	448.9	440.3
60°	7370.5	6141.9	1877.8	545.4	505.7	491.5	492.9	481.5	457.4	427.5	414.8
62.5°	7434.5	6163.2	1579.5	514.2	477.3	475.8	464.5	460.2	450.3	431.8	426.1
65°	7380.5	5921.7	1261.3	475.8	453.1	454.5	437.5	423.3	400.6	370.7	367.9
67.5°	7009.8	5497.0	967.3	427.5	416.2	430.4	411.9	387.8	362.2	342.3	345.2
70°	6374.8	4994.2	679.0	360.8	373.6	399.1	392.0	360.8	332.4	315.3	318.2
72.5°	5668.9	4231.4	461.6	281.2	304.0	357.9	357.9	336.6	308.2	285.5	279.8
75°	4471.5	3323.8	298.3	186.1	200.3	292.6	316.8	284.1	252.8	238.6	232.9
77.5°	3035.4	2164.7	190.3	106.5	133.5	191.8	250.0	254.3	299.7	301.1	288.3
80°	1784.0	1238.6	116.5	62.5	66.8	110.8	200.3	251.4	318.2	224.4	206.0
82.5°	887.8	528.4	52.6	38.4	39.8	55.4	108.0	288.3	245.7	140.6	134.9
85°	197.4	86.6	21.3	19.9	22.7	28.4	55.4	238.6	150.6	113.6	110.8
87.5°	7.1	5.7	5.7	5.7	4.3	4.3	11.4	78.1	59.7	49.7	46.9
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)