

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: P507753

Luminaire Tested: **VERD-S-CA1-80-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1500mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10846 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (A_{in}): 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

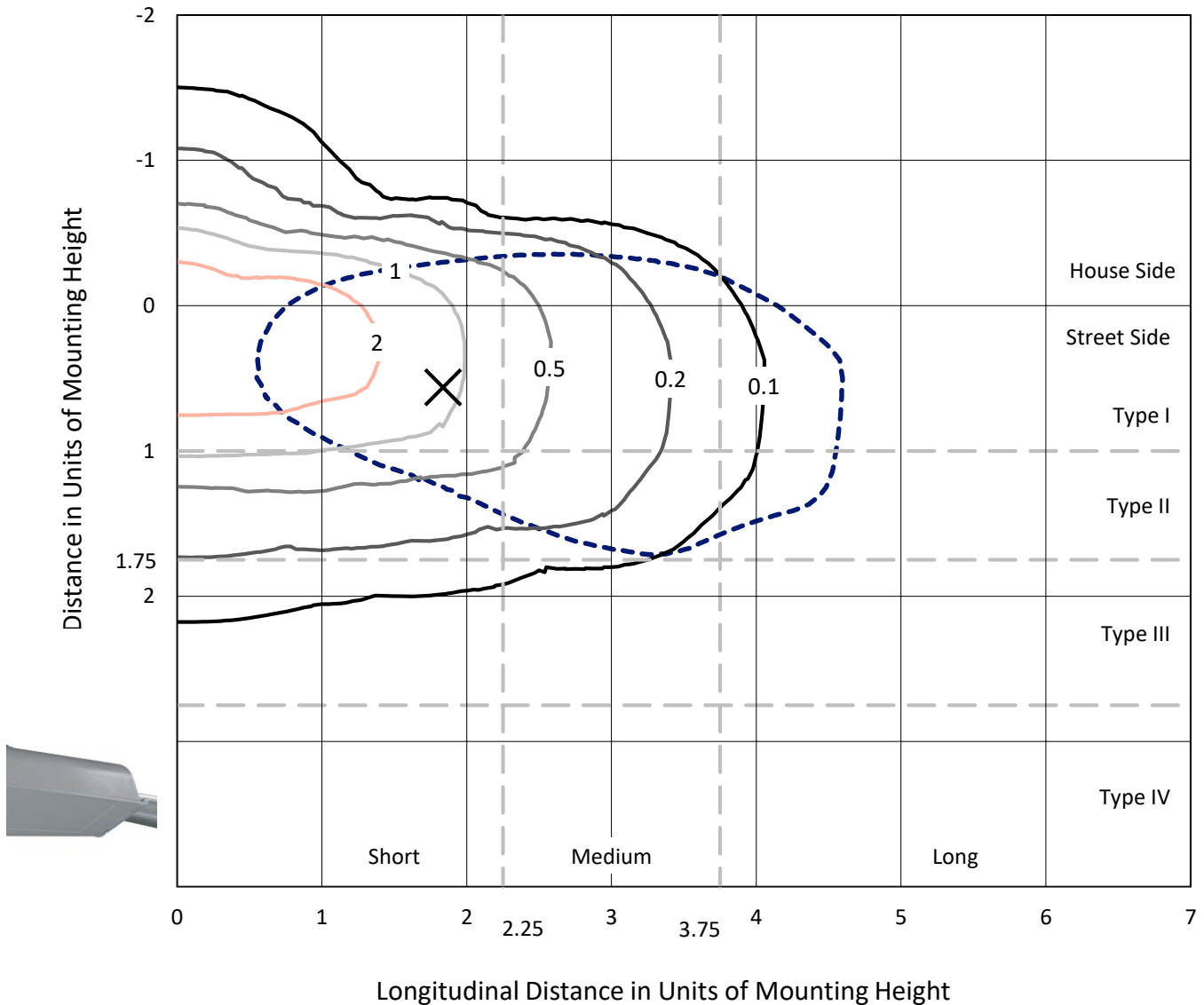


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Iso-Footcandle Lines of Horizontal Illumination

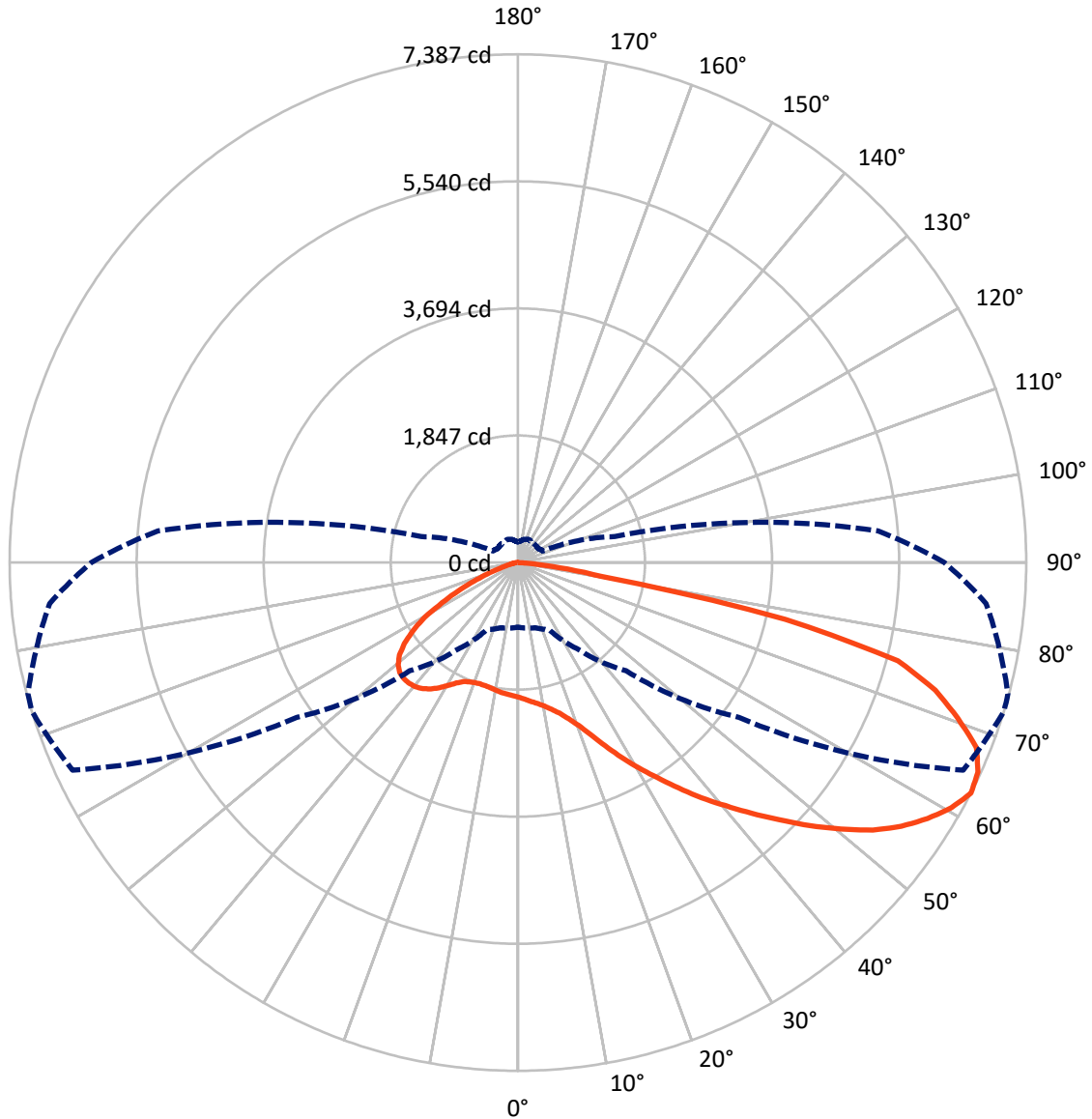
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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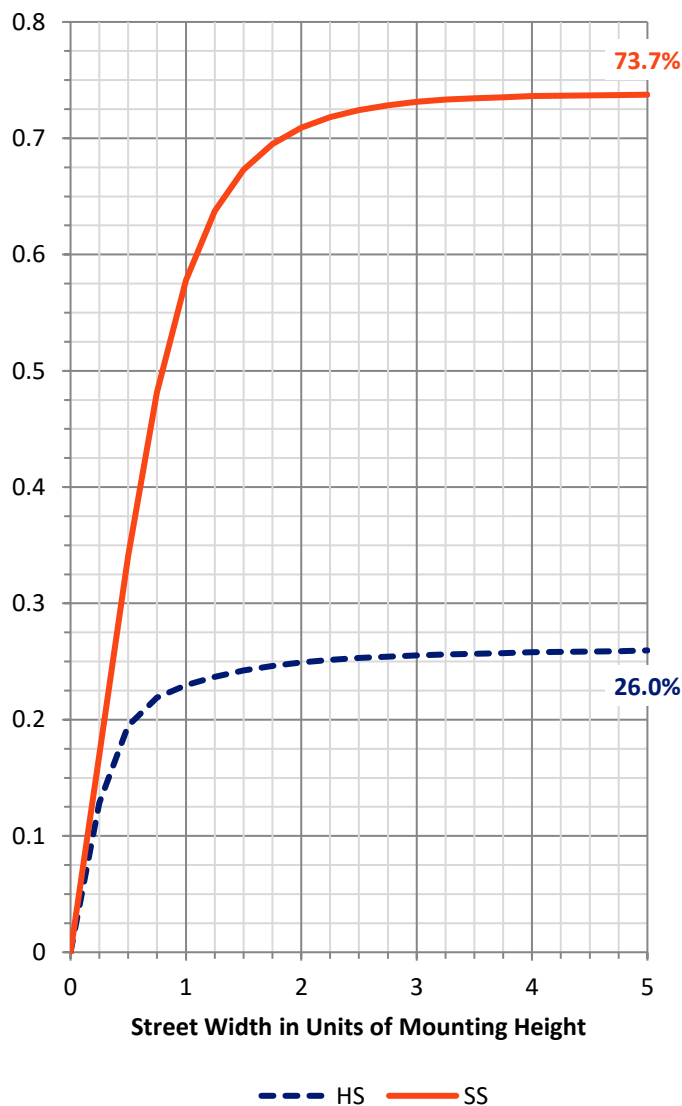
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2857.0	0.0	2857.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	7989.0	0.0	7989.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	10846.0	0.0	10846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	1.7
10°-20°	578.7	5.3
20°-30°	1001.8	9.2
30°-40°	1450.8	13.4
40°-50°	1858.2	17.1
50°-60°	2151.4	19.8
60°-70°	2166.5	20.0
70°-80°	1324.5	12.2
80°-90°	124.7	1.1
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°	10846.0	100.0
0°-180°	10846.0	100.0

Coefficient of Utilization



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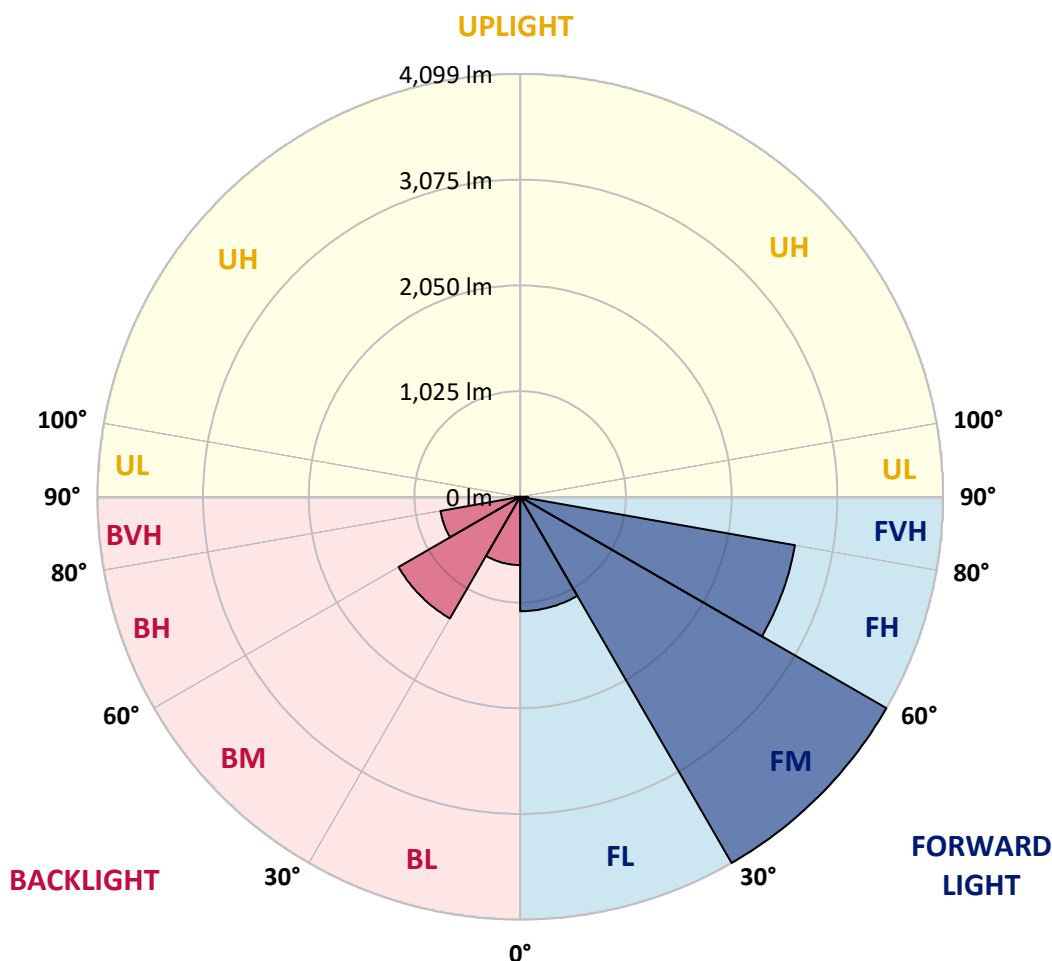
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.5	10.2			
FM (30°-60°)	4099.4	37.8			
FH (60°-80°)	2705.7	24.9			G2/5000
FVH (80°-90°)	75.3	0.7			G1/100
BL (0°-30°)	661.3	6.1	B2/1000		
BM (30°-60°)	1361.0	12.5	B2/2500		
BH (60°-80°)	785.3	7.2	B2/1000		G2/1000
BVH (80°-90°)	49.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1
2.5°	2060.0	2056.9	2050.8	2047.7	2041.6	2026.3	2017.2	2001.9	1989.7	1986.6	1968.3
5°	2160.8	2163.9	2160.8	2151.6	2139.4	2118.0	2087.5	2047.7	2029.4	2023.3	1992.7
7.5°	2255.6	2255.6	2252.5	2240.3	2228.1	2200.5	2157.8	2111.9	2069.1	2056.9	2017.2
10°	2347.3	2347.3	2338.1	2325.9	2307.5	2273.9	2231.1	2173.0	2121.1	2102.7	2035.5
12.5°	2445.1	2442.0	2429.8	2411.4	2387.0	2359.5	2313.6	2249.4	2191.4	2170.0	2075.2
15°	2521.5	2521.5	2512.3	2500.1	2478.7	2445.1	2402.3	2347.3	2270.8	2252.5	2130.3
17.5°	2588.7	2591.8	2585.6	2585.6	2567.3	2542.9	2506.2	2460.3	2387.0	2359.5	2212.8
20°	2643.7	2640.7	2652.9	2662.1	2668.2	2652.9	2631.5	2600.9	2527.6	2500.1	2319.7
22.5°	2668.2	2674.3	2711.0	2756.8	2784.3	2787.4	2784.3	2781.2	2717.1	2680.4	2466.4
25°	2680.4	2689.6	2744.6	2824.0	2885.2	2931.0	2979.9	3010.5	2952.4	2924.9	2686.5
27.5°	2692.6	2701.8	2766.0	2863.8	2979.9	3089.9	3187.7	3245.8	3203.0	3169.4	2912.7
30°	2671.2	2680.4	2753.7	2891.3	3056.3	3248.9	3386.4	3468.9	3462.8	3441.4	3172.5
32.5°	2625.4	2634.5	2717.1	2888.2	3135.8	3410.9	3563.7	3701.2	3728.7	3707.3	3432.2
35°	2542.9	2555.1	2649.8	2851.5	3172.5	3545.3	3750.1	3951.8	4022.1	4025.2	3716.5
37.5°	2429.8	2435.9	2552.0	2781.2	3184.7	3640.1	3906.0	4193.3	4336.9	4340.0	4006.8
40°	2277.0	2292.2	2435.9	2692.6	3157.2	3707.3	4061.8	4456.1	4645.6	4624.2	4321.6
42.5°	2102.7	2115.0	2255.6	2552.0	3093.0	3747.0	4205.5	4731.2	4981.8	4969.6	4618.1
45°	1946.9	1965.2	2072.2	2356.4	2970.7	3756.2	4330.8	5006.2	5330.2	5314.9	4920.7
47.5°	1739.0	1784.9	1928.5	2182.2	2787.4	3716.5	4443.9	5379.1	5715.3	5693.9	5238.5
50°	1338.7	1353.9	1656.5	2035.5	2579.5	3618.7	4541.7	5724.5	6088.2	6072.9	5571.7
52.5°	1207.2	1219.5	1317.3	1867.4	2371.7	3444.5	4599.8	6167.6	6461.1	6418.3	5871.2
55°	1133.9	1146.1	1201.1	1491.5	2191.4	3181.6	4612.0	6543.6	6763.6	6723.9	6152.4
57.5°	1066.7	1075.8	1127.8	1277.5	1983.6	2817.9	4547.8	6846.2	7020.4	6980.6	6406.0
60°	996.4	1005.5	1060.5	1161.4	1726.8	2484.8	4336.9	7081.5	7237.4	7197.6	6635.3
62.5°	938.3	953.6	981.1	1075.8	1543.4	2225.0	3924.3	7139.6	7387.1	7371.8	6830.9
65°	868.0	874.1	916.9	993.3	1363.1	2044.7	3481.1	6971.5	7347.4	7374.9	6947.0
67.5°	788.5	791.6	831.3	886.3	1140.0	1867.4	3086.9	6745.3	7188.5	7234.3	6861.4
70°	681.6	684.6	721.3	779.4	944.4	1619.8	2680.4	6412.2	6782.0	6824.8	6531.4
72.5°	568.5	568.5	599.0	663.2	779.4	1341.7	2145.5	5681.7	6344.9	6415.2	5993.4
75°	247.6	256.7	308.7	369.8	504.3	987.2	1464.0	4398.0	5703.1	5752.0	5253.8
77.5°	67.2	67.2	79.5	103.9	146.7	440.1	464.6	1934.6	3973.2	4098.5	3884.6
80°	55.0	55.0	61.1	79.5	100.9	217.0	155.9	623.5	1228.6	1619.8	2014.1
82.5°	30.6	30.6	36.7	45.8	55.0	55.0	55.0	317.9	605.2	644.9	843.5
85°	15.3	18.3	18.3	21.4	21.4	18.3	18.3	64.2	116.1	131.4	201.7
87.5°	6.1	6.1	6.1	6.1	3.1	3.1	6.1	9.2	9.2	12.2	15.3
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°	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1	1959.1
2.5°	1962.2	1953.0	1940.8	1931.6	1913.3	1894.9	1882.7	1873.5	1870.5	1867.4	1867.4
5°	1974.4	1959.1	1925.5	1891.9	1864.4	1839.9	1818.5	1803.2	1797.1	1794.1	1794.1
7.5°	1992.7	1971.3	1916.3	1867.4	1818.5	1781.8	1748.2	1726.8	1714.6	1717.7	1726.8
10°	2001.9	1968.3	1894.9	1846.0	1781.8	1723.8	1684.0	1659.6	1650.4	1650.4	1647.4
12.5°	2026.3	1977.4	1879.6	1803.2	1748.2	1668.7	1622.9	1601.5	1589.3	1570.9	1564.8
15°	2063.0	2001.9	1873.5	1772.7	1687.1	1616.8	1555.7	1525.1	1515.9	1491.5	1491.5
17.5°	2130.3	2044.7	1873.5	1739.0	1629.0	1561.8	1482.3	1439.5	1433.4	1418.1	1415.1
20°	2209.7	2102.7	1888.8	1705.4	1567.9	1479.3	1390.6	1347.8	1332.6	1317.3	1317.3
22.5°	2335.0	2191.4	1916.3	1681.0	1503.7	1393.7	1295.9	1234.8	1210.3	1207.2	1201.1
25°	2527.6	2332.0	1959.1	1656.5	1439.5	1298.9	1201.1	1121.7	1081.9	1075.8	1072.8
27.5°	2738.5	2524.5	2044.7	1635.1	1369.2	1192.0	1075.8	990.2	941.3	935.2	932.2
30°	2964.6	2723.2	2157.8	1616.8	1280.6	1069.7	938.3	855.8	809.9	797.7	800.8
32.5°	3212.2	2937.1	2280.0	1601.5	1185.9	910.8	788.5	733.5	684.6	663.2	666.3
35°	3453.6	3126.6	2387.0	1589.3	1060.5	767.1	672.4	614.3	565.4	537.9	537.9
37.5°	3725.7	3349.7	2475.6	1564.8	926.1	669.3	577.6	519.6	482.9	458.4	458.4
40°	3991.6	3572.8	2545.9	1519.0	776.3	589.9	476.8	443.2	418.7	403.4	397.3
42.5°	4251.3	3795.9	2591.8	1442.6	651.0	495.1	397.3	394.3	397.3	382.0	379.0
45°	4520.3	4016.0	2625.4	1320.3	562.4	409.5	354.5	375.9	397.3	391.2	391.2
47.5°	4813.7	4229.9	2652.9	1121.7	476.8	360.6	351.5	372.9	400.4	403.4	403.4
50°	5094.9	4446.9	2643.7	868.0	418.7	357.6	354.5	360.6	397.3	406.5	400.4
52.5°	5357.7	4633.4	2570.4	632.7	391.2	363.7	363.7	357.6	388.2	394.3	397.3
55°	5623.6	4807.6	2405.3	501.2	375.9	363.7	379.0	363.7	372.9	375.9	382.0
57.5°	5865.1	4984.9	2160.8	449.3	372.9	363.7	379.0	369.8	369.8	357.6	354.5
60°	6051.5	5131.6	1864.4	427.9	363.7	366.8	372.9	372.9	363.7	336.2	327.0
62.5°	6198.2	5253.8	1457.9	400.4	357.6	360.6	357.6	369.8	348.4	308.7	299.5
65°	6280.7	5275.2	1115.6	369.8	342.3	354.5	345.4	342.3	324.0	281.2	262.8
67.5°	6189.0	5125.4	779.4	339.3	324.0	345.4	330.1	317.9	296.5	256.7	232.3
70°	5834.5	4691.4	513.5	299.5	299.5	324.0	311.7	293.4	265.9	235.3	207.8
72.5°	5168.2	4043.5	308.7	247.6	265.9	296.5	290.4	265.9	186.4	143.6	125.3
75°	4370.5	3322.2	198.7	186.4	217.0	265.9	269.0	238.4	158.9	128.4	128.4
77.5°	3175.5	2182.2	116.1	103.9	143.6	213.9	229.2	174.2	171.2	238.4	174.2
80°	1629.0	1057.5	88.6	64.2	76.4	158.9	128.4	131.4	259.8	192.5	122.3
82.5°	706.0	418.7	55.0	45.8	48.9	79.5	82.5	217.0	201.7	113.1	76.4
85°	149.8	79.5	30.6	30.6	30.6	36.7	45.8	235.3	125.3	58.1	24.5
87.5°	15.3	15.3	15.3	15.3	15.3	15.3	12.2	12.2	12.2	9.2	9.2
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)