

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: P553496

Luminaire Tested: **VERD-G-CA2-140-722-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-722-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1290mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15352 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

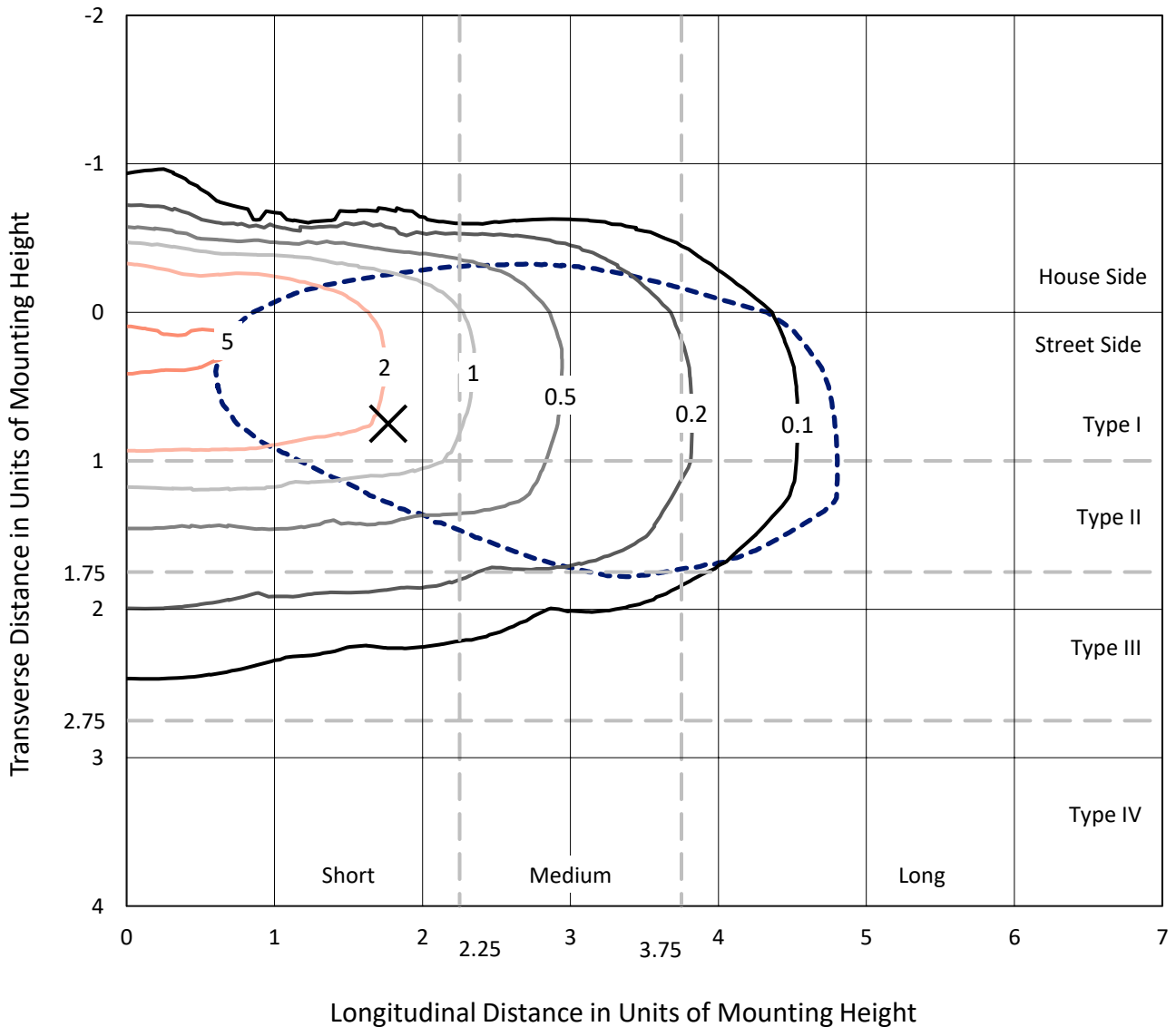
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553496
 CATALOG NUMBER: VERD-G-CA2-140-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

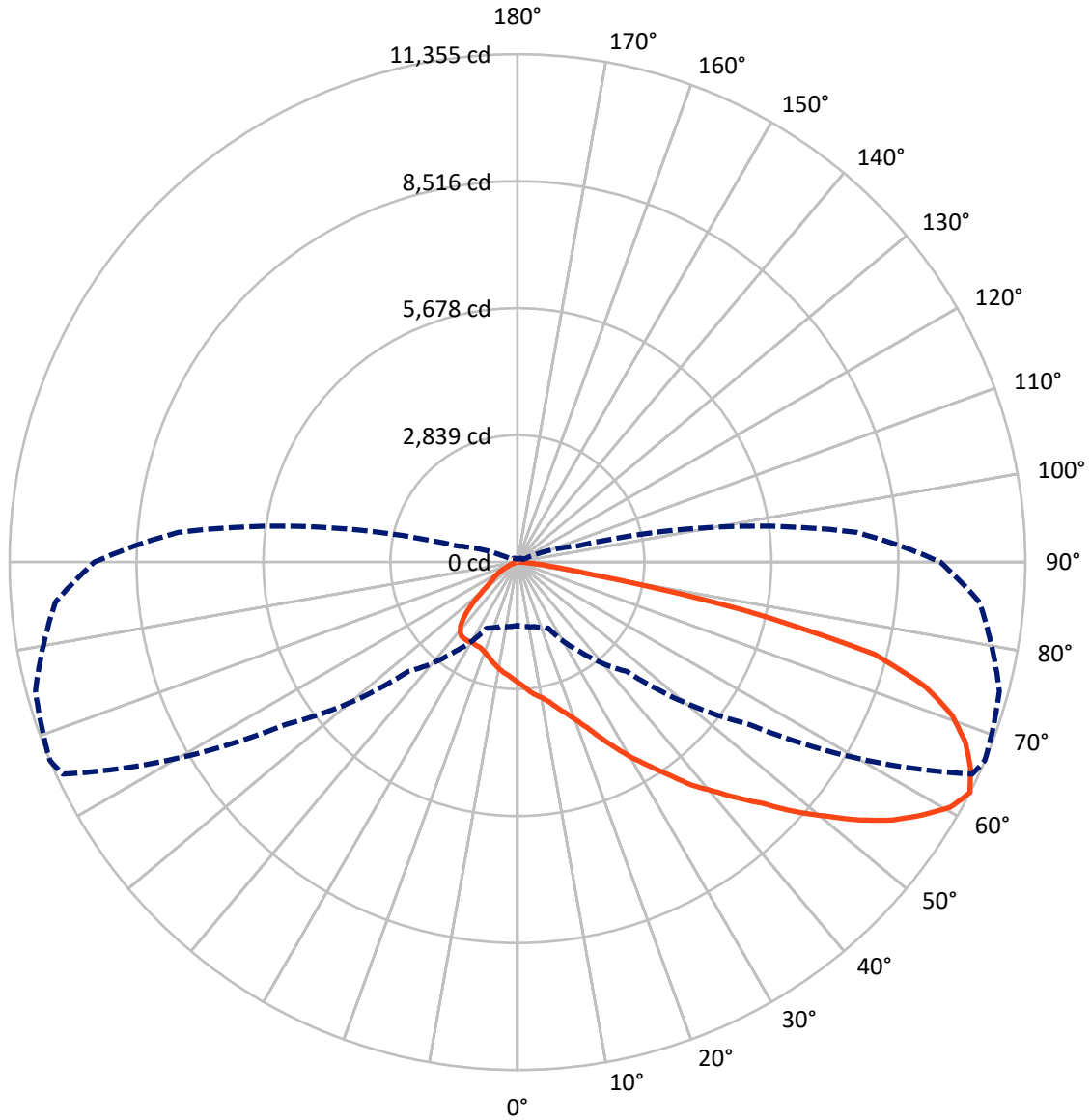
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P553496
CATALOG NUMBER: VERD-G-CA2-140-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P553496
 CATALOG NUMBER: VERD-G-CA2-140-722-U-T2-HSS

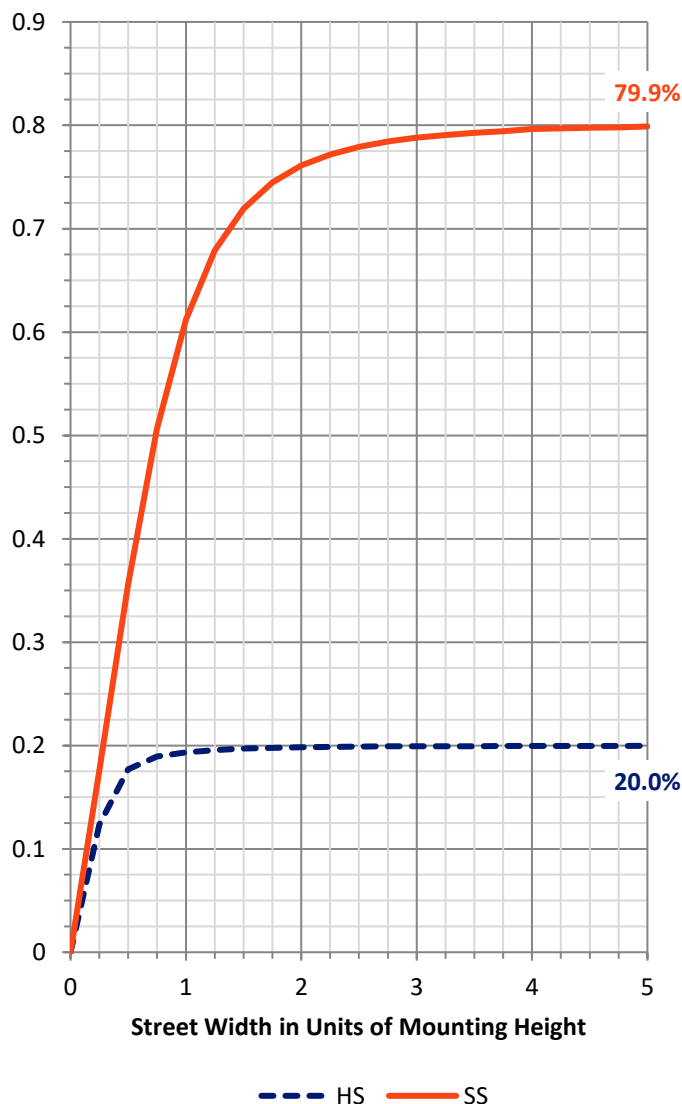
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3102.3	0.0	3102.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12249.7	0.0	12249.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	15352.0	0.0	15352.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	1.7
10°-20°	786.1	5.1
20°-30°	1340.9	8.7
30°-40°	1964.4	12.8
40°-50°	2592.4	16.9
50°-60°	3050.8	19.9
60°-70°	3137.8	20.4
70°-80°	2032.9	13.2
80°-90°	186.1	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°	15352.0	100.0
0°-180°	15352.0	100.0



REPORT NUMBER: P553496

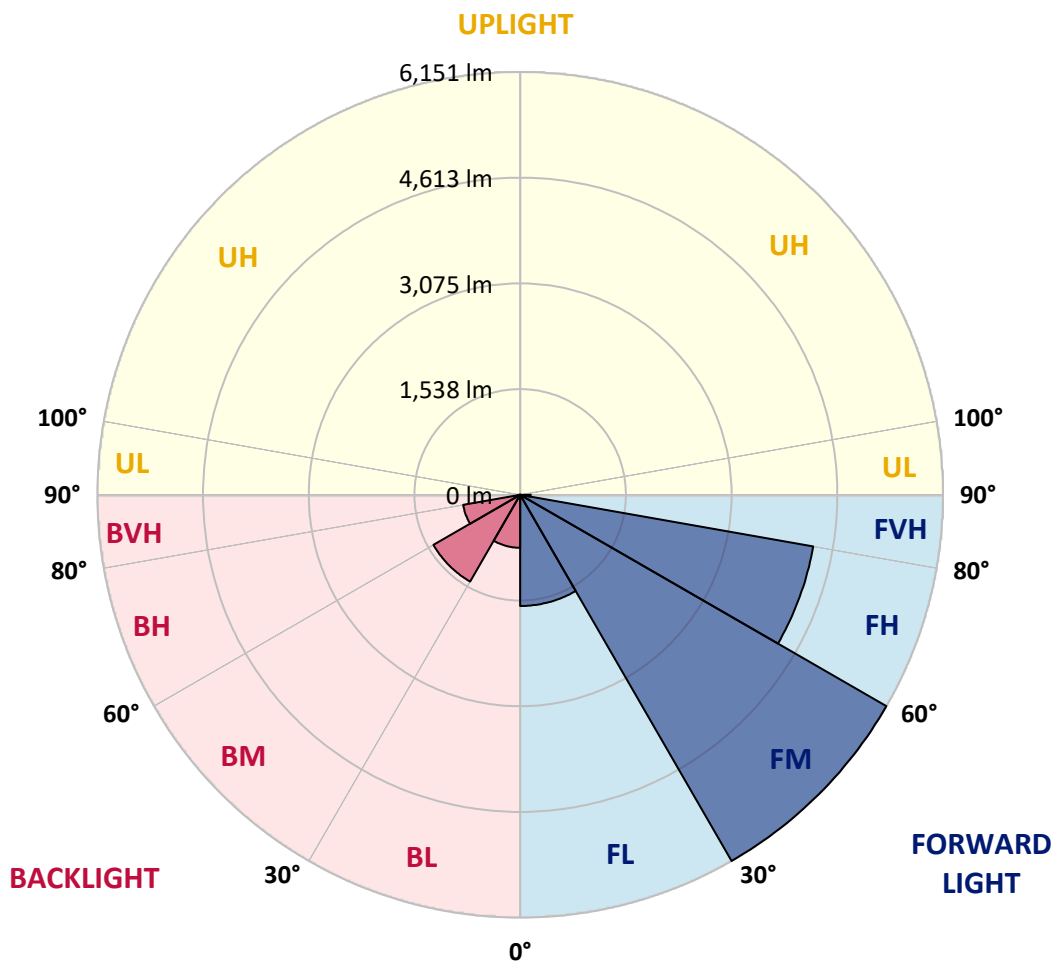
CATALOG NUMBER: VERD-G-CA2-140-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.6	10.5			
FM (30°-60°)	6150.8	40.1			
FH (60°-80°)	4328.4	28.2			G2/5000
FVH (80°-90°)	153.9	1.0			G2/225
BL (0°-30°)	771.0	5.0	B2/1000		
BM (30°-60°)	1456.8	9.5	B2/2500		
BH (60°-80°)	842.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	32.2	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





REPORT NUMBER: P553496

CATALOG NUMBER: VERD-G-CA2-140-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5
2.5°	2991.6	2988.3	2956.3	2926.4	2906.5	2905.4	2853.4	2806.9	2785.9	2761.6	2707.4
5°	3146.5	3173.0	3137.6	3093.4	3058.0	3031.5	2986.1	2933.0	2910.9	2853.4	2771.6
7.5°	3371.0	3371.0	3337.8	3300.2	3259.3	3188.5	3111.1	3018.2	3007.1	2943.0	2835.7
10°	3479.4	3505.9	3462.8	3418.5	3373.2	3336.7	3231.6	3117.7	3090.1	2993.9	2861.1
12.5°	3630.9	3630.9	3607.7	3570.1	3518.1	3445.1	3377.6	3262.6	3216.2	3072.4	2906.5
15°	3773.6	3761.4	3741.5	3679.6	3653.0	3607.7	3519.2	3398.6	3389.8	3230.5	2976.2
17.5°	3885.3	3865.4	3846.6	3813.4	3781.3	3763.6	3700.6	3595.5	3559.0	3413.0	3107.8
20°	3942.8	3959.4	3914.0	3912.9	3922.9	3909.6	3867.6	3789.0	3773.6	3599.9	3241.6
22.5°	4008.0	4030.1	4019.1	4030.1	4060.0	4082.1	4079.9	4063.3	4039.0	3849.9	3457.3
25°	4022.4	4008.0	4054.5	4157.3	4232.5	4285.6	4389.6	4368.6	4361.9	4194.9	3750.3
27.5°	3978.2	3991.4	4064.4	4212.6	4406.2	4551.1	4636.2	4741.3	4718.1	4588.7	4103.1
30°	3951.6	3974.8	4071.1	4244.7	4504.6	4766.7	4934.8	5065.3	5085.2	4982.4	4450.4
32.5°	3859.8	3890.8	3990.3	4270.1	4600.8	4997.9	5206.9	5450.2	5441.4	5399.3	4872.9
35°	3718.3	3759.2	3911.8	4237.0	4709.2	5205.8	5483.4	5837.3	5843.9	5861.6	5274.4
37.5°	3604.4	3617.6	3791.3	4138.5	4752.3	5373.9	5741.1	6220.0	6327.2	6301.8	5730.0
40°	3421.9	3461.7	3649.7	4018.0	4747.9	5487.8	6003.2	6667.9	6725.4	6805.0	6206.7
42.5°	3197.4	3240.5	3420.8	3854.3	4686.0	5587.4	6255.4	7124.6	7205.4	7330.4	6643.6
45°	2981.7	3000.5	3169.7	3615.4	4565.4	5665.9	6500.9	7574.8	7698.6	7877.8	7083.7
47.5°	2712.9	2763.8	2952.9	3365.5	4298.9	5694.6	6682.3	8105.6	8333.5	8443.0	7585.8
50°	2087.0	2119.0	2649.9	3145.4	4009.1	5605.0	6917.8	8779.2	8923.0	9036.9	8094.6
52.5°	1839.2	1868.0	2073.7	2891.0	3686.2	5372.8	7061.6	9405.2	9578.8	9554.5	8605.5
55°	1735.3	1749.6	1838.1	2359.0	3392.0	4941.5	7162.3	10088.6	10182.6	10025.6	9112.1
57.5°	1614.7	1631.3	1697.7	1977.5	3060.2	4395.1	7078.2	10636.1	10671.5	10476.8	9563.3
60°	1507.4	1518.5	1618.0	1769.5	2699.7	3865.4	6865.9	11029.8	11128.3	10808.6	10049.9
62.5°	1415.6	1442.2	1494.2	1628.0	2447.5	3455.0	6328.4	11215.6	11355.0	11155.9	10372.9
65°	1324.9	1337.1	1396.8	1515.2	2176.5	3212.8	6020.9	10971.2	11133.8	11202.4	10572.0
67.5°	1201.1	1218.8	1277.4	1362.6	1816.0	2977.3	5303.1	10574.2	10806.4	10957.9	10453.6
70°	1056.2	1071.7	1131.4	1202.2	1516.3	2630.0	4475.9	10169.4	10322.0	10332.0	9925.0
72.5°	888.1	902.5	962.2	1033.0	1258.6	2189.8	3508.1	9210.5	9552.2	9769.0	9038.0
75°	565.1	627.1	775.3	854.9	1036.3	1771.8	2502.8	7353.6	8251.6	8871.0	7821.4
77.5°	91.8	102.9	304.1	433.5	602.8	1201.1	1390.2	4074.4	5125.1	7413.3	6315.1
80°	69.7	78.5	110.6	294.2	387.1	747.6	547.5	1322.7	1594.8	3466.1	3538.0
82.5°	29.9	35.4	66.4	164.8	182.5	199.1	147.1	591.7	700.1	1054.0	1227.6
85°	10.0	13.3	31.0	52.0	57.5	44.2	32.1	234.5	288.7	505.4	467.8
87.5°	0.0	1.1	6.6	7.7	6.6	4.4	3.3	2.2	2.2	3.3	3.3
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: P553496

CATALOG NUMBER: VERD-G-CA2-140-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5
2.5°	2696.4	2658.7	2654.3	2609.0	2568.1	2521.6	2492.9	2482.9	2496.2	2509.4	2522.7
5°	2729.5	2672.0	2614.5	2520.5	2478.5	2427.6	2360.1	2319.2	2300.4	2317.0	2322.5
7.5°	2753.9	2679.8	2591.3	2463.0	2372.3	2275.0	2210.8	2142.3	2104.7	2111.3	2116.8
10°	2758.3	2676.4	2526.0	2402.2	2256.2	2122.4	2038.3	2006.2	1980.8	1958.7	1962.0
12.5°	2799.2	2678.7	2470.7	2320.3	2166.6	1994.1	1900.1	1859.1	1854.7	1809.4	1804.9
15°	2854.5	2727.3	2442.0	2246.2	2049.4	1886.8	1775.1	1702.1	1704.3	1681.1	1677.8
17.5°	2944.1	2774.9	2421.0	2160.0	1926.6	1777.3	1635.7	1569.4	1548.4	1541.7	1536.2
20°	3044.7	2844.6	2395.5	2083.6	1819.3	1645.7	1487.5	1420.1	1361.4	1343.8	1346.0
22.5°	3192.9	2936.3	2416.5	2026.1	1699.9	1517.4	1360.3	1228.7	1128.1	1101.5	1098.2
25°	3455.0	3117.7	2479.6	1976.4	1625.8	1392.4	1181.2	996.5	863.8	835.0	837.2
27.5°	3747.0	3356.6	2567.0	1955.4	1531.8	1254.2	963.3	757.6	633.7	600.5	602.8
30°	4093.2	3640.8	2699.7	1896.7	1431.1	1052.9	717.8	555.2	459.0	420.3	422.5
32.5°	4426.1	3925.1	2870.0	1887.9	1305.0	790.8	518.7	403.7	325.2	296.4	299.7
35°	4793.3	4250.2	3049.2	1843.6	1098.2	567.4	363.9	279.8	237.8	228.9	227.8
37.5°	5209.1	4540.0	3181.9	1802.7	821.7	399.3	248.8	215.7	210.1	198.0	198.0
40°	5595.1	4841.9	3281.4	1694.3	575.1	271.0	194.7	195.8	190.2	173.6	170.3
42.5°	5951.2	5153.8	3373.2	1520.7	389.3	184.7	174.7	178.1	180.3	161.5	157.0
45°	6354.9	5538.7	3353.3	1259.7	247.7	167.0	157.0	167.0	178.1	159.3	154.8
47.5°	6797.3	5820.7	3395.3	909.1	174.7	158.2	146.0	159.3	168.1	155.9	149.3
50°	7297.2	6190.1	3268.1	528.7	160.4	149.3	140.5	146.0	159.3	152.6	144.9
52.5°	7755.0	6519.7	3094.5	258.8	151.5	140.5	131.6	136.0	149.3	141.6	143.8
55°	8141.0	6862.5	2741.7	184.7	146.0	130.5	127.2	128.3	136.0	126.1	132.7
57.5°	8614.4	7144.6	2383.4	172.5	141.6	123.9	125.0	116.1	118.3	112.8	106.2
60°	9035.8	7411.1	1896.7	159.3	134.9	127.2	112.8	100.6	94.0	90.7	89.6
62.5°	9457.1	7613.5	1397.9	144.9	128.3	115.0	99.5	86.3	75.2	70.8	69.7
65°	9616.4	7721.9	954.5	132.7	120.6	105.1	88.5	69.7	57.5	53.1	49.8
67.5°	9498.1	7382.3	553.0	119.4	116.1	96.2	77.4	56.4	44.2	40.9	38.7
70°	8949.5	6849.3	295.3	108.4	101.7	85.2	68.6	46.5	35.4	31.0	29.9
72.5°	8006.1	5890.4	154.8	90.7	85.2	69.7	54.2	38.7	28.8	23.2	22.1
75°	6798.4	4624.1	108.4	66.4	58.6	54.2	40.9	31.0	23.2	17.7	16.6
77.5°	5366.2	3004.9	81.8	43.1	34.3	35.4	29.9	25.4	18.8	13.3	13.3
80°	2771.6	1561.6	61.9	28.8	19.9	21.0	21.0	18.8	14.4	10.0	10.0
82.5°	1099.3	575.1	43.1	16.6	12.2	13.3	12.2	12.2	10.0	6.6	6.6
85°	362.8	126.1	15.5	10.0	7.7	7.7	6.6	5.5	3.3	2.2	2.2
87.5°	3.3	3.3	4.4	5.5	5.5	4.4	3.3	1.1	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)