

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: P509477

Luminaire Tested: **VERD-G-CA2-100-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-760-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 930mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15200 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

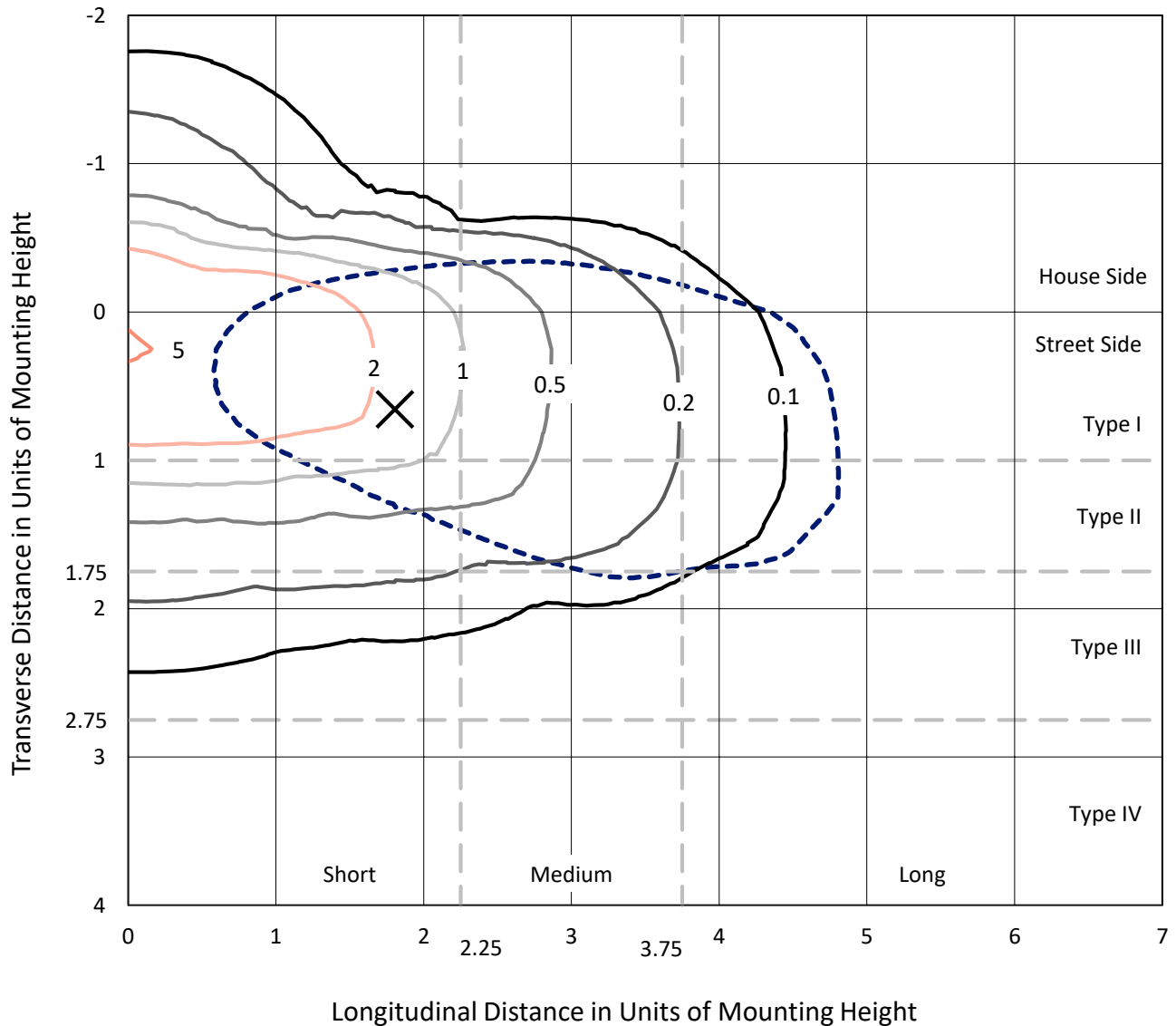
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

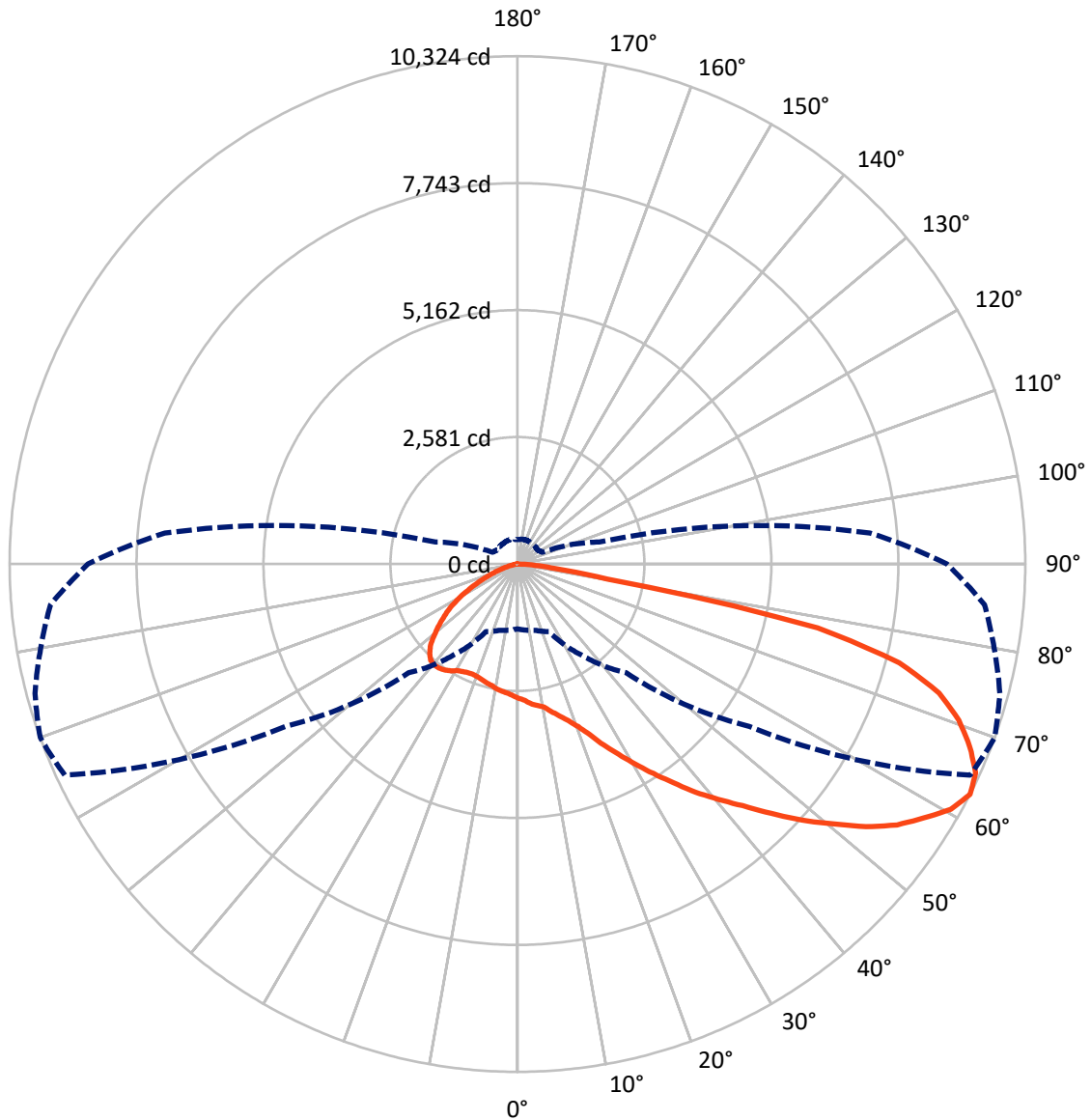
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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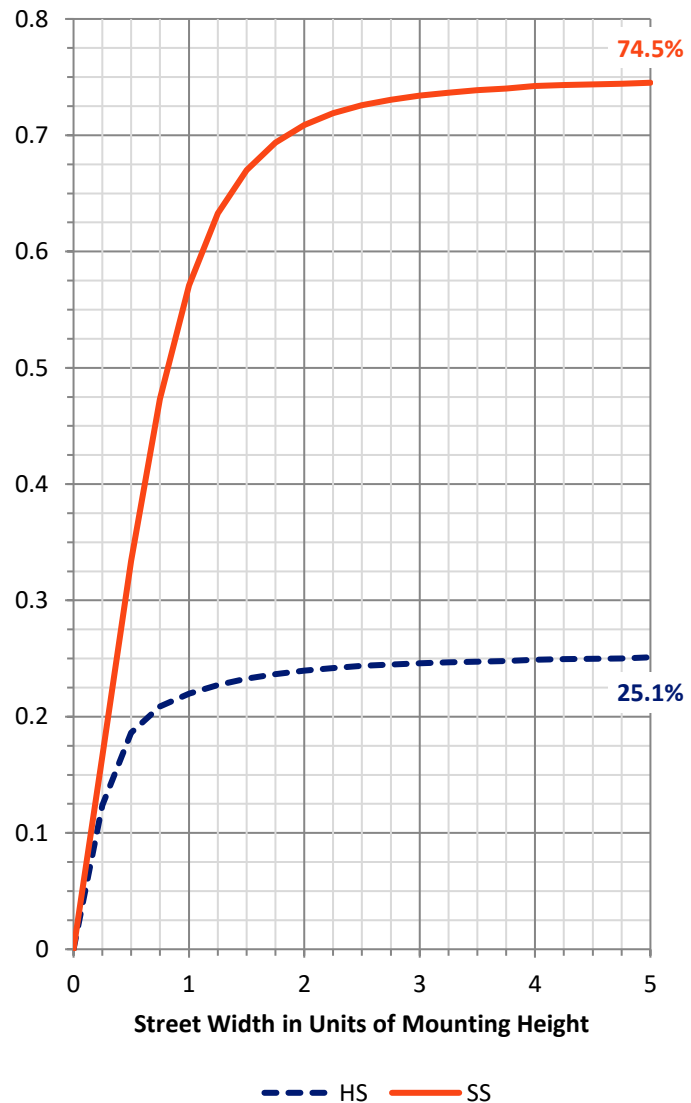
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3884.1	0.0	3884.1
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	11315.9	0.0	11315.9
	% Fixture	74.4	0.0	74.4
Total	Lumens	15200.0	0.0	15200.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	1.7
10°-20°	801.3	5.3
20°-30°	1362.1	9.0
30°-40°	1960.1	12.9
40°-50°	2543.6	16.7
50°-60°	2981.7	19.6
60°-70°	3057.8	20.1
70°-80°	2006.5	13.2
80°-90°	223.5	1.5
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°	15200.0	100.0
0°-180°	15200.0	100.0



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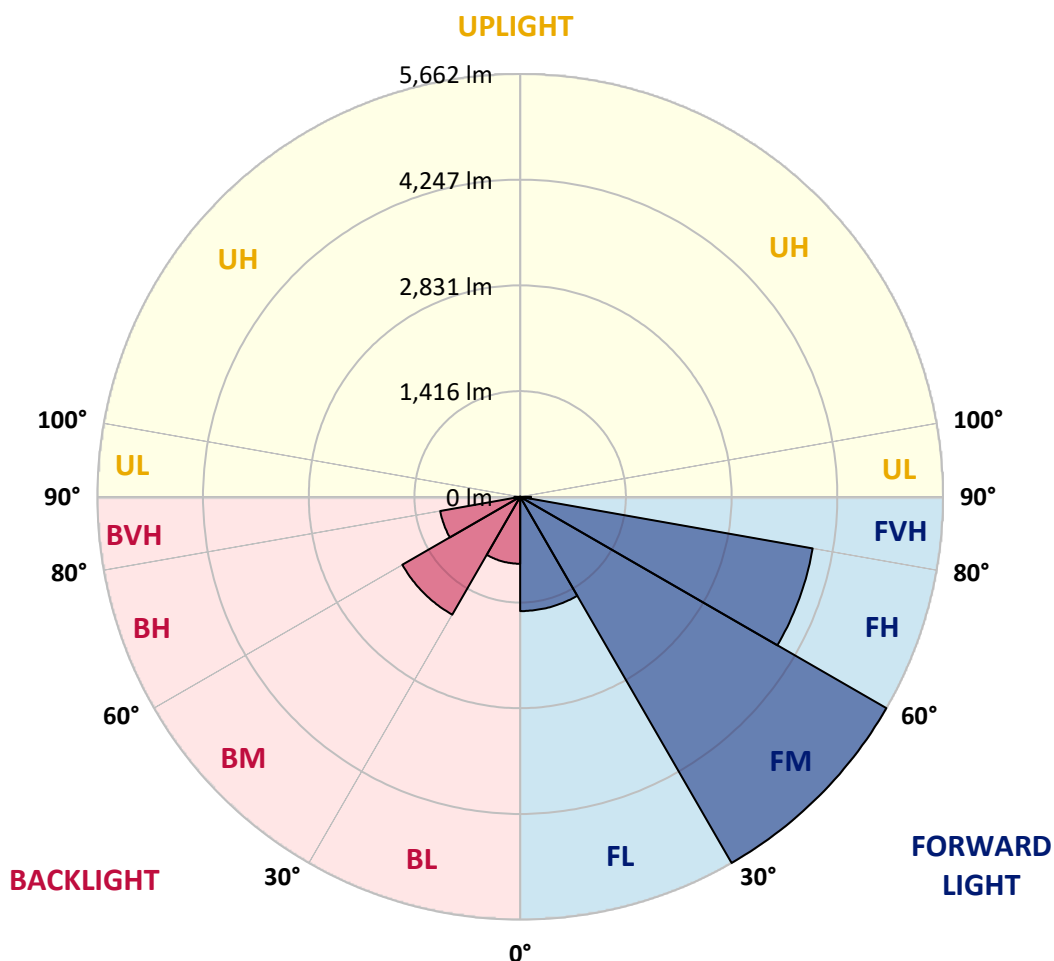
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.0	10.1			
FM (30°-60°)	5662.4	37.3			
FH (60°-80°)	3977.7	26.2			G2/5000
FVH (80°-90°)	145.8	1.0			G2/225
BL (0°-30°)	896.9	5.9	B2/1000		
BM (30°-60°)	1822.9	12.0	B2/2500		
BH (60°-80°)	1086.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	77.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0
2.5°	2903.4	2914.4	2896.5	2879.5	2862.6	2852.6	2835.7	2787.8	2770.9	2755.9	2726.0
5°	3053.9	3068.9	3043.0	2989.2	2976.2	2934.3	2911.4	2870.5	2853.6	2827.7	2777.8
7.5°	3230.4	3232.4	3195.5	3178.5	3135.7	3078.9	3006.1	2931.3	2906.4	2879.5	2816.7
10°	3333.0	3353.9	3318.1	3265.2	3235.3	3184.5	3107.8	3009.1	2954.3	2906.4	2836.7
12.5°	3477.5	3482.5	3424.7	3394.8	3354.9	3291.2	3216.4	3130.7	3076.9	2988.2	2861.6
15°	3583.2	3586.2	3534.4	3502.5	3464.6	3426.7	3346.0	3256.3	3203.4	3114.7	2922.4
17.5°	3658.9	3671.9	3640.0	3617.1	3577.2	3550.3	3486.5	3415.7	3347.0	3267.2	3049.0
20°	3741.7	3748.6	3689.8	3699.8	3692.8	3680.9	3651.0	3584.2	3528.4	3422.7	3150.6
22.5°	3764.6	3752.6	3768.6	3807.5	3826.4	3840.3	3831.4	3816.4	3765.6	3634.0	3343.0
25°	3730.7	3745.7	3783.5	3868.3	3973.9	4036.7	4081.6	4092.5	4077.6	3952.0	3600.1
27.5°	3721.7	3714.8	3776.6	3921.1	4098.5	4245.0	4333.7	4417.4	4379.6	4300.8	3890.2
30°	3683.9	3680.9	3789.5	3938.0	4166.3	4438.4	4596.9	4738.4	4720.4	4640.7	4230.1
32.5°	3591.2	3611.1	3694.8	3952.0	4269.9	4625.8	4819.1	5051.4	5078.3	5019.5	4573.9
35°	3471.6	3478.5	3612.1	3915.1	4350.7	4790.2	5071.3	5394.2	5457.0	5455.0	4960.7
37.5°	3320.1	3359.9	3502.5	3823.4	4385.6	4940.7	5313.5	5759.0	5884.6	5865.7	5347.4
40°	3168.6	3193.5	3361.9	3706.8	4388.5	5041.4	5518.8	6148.7	6288.3	6291.3	5787.9
42.5°	2941.3	2983.2	3159.6	3553.3	4321.8	5127.1	5723.1	6557.4	6715.9	6738.8	6196.6
45°	2751.9	2765.9	2922.4	3315.1	4177.2	5173.0	5950.4	6976.0	7232.2	7213.2	6551.4
47.5°	2506.7	2561.6	2727.0	3089.8	3951.0	5180.9	6147.7	7462.4	7779.4	7735.5	7034.8
50°	1939.6	2000.4	2450.9	2886.5	3664.9	5090.2	6306.2	8040.5	8298.7	8251.8	7446.5
52.5°	1710.4	1740.3	1922.7	2649.3	3367.9	4873.9	6432.8	8588.7	8870.8	8726.2	7927.9
55°	1612.7	1626.6	1709.4	2166.9	3105.8	4519.1	6505.6	9203.7	9362.2	9147.9	8376.4
57.5°	1507.0	1539.9	1581.8	1826.0	2813.7	4027.7	6460.7	9714.0	9739.9	9526.6	8759.1
60°	1407.4	1421.3	1508.0	1636.6	2477.8	3520.4	6207.5	10031.9	10123.6	9861.5	9219.6
62.5°	1318.7	1343.6	1394.4	1515.0	2253.6	3125.7	5757.0	10154.5	10324.0	10153.5	9530.6
65°	1234.9	1242.9	1300.7	1410.4	2005.4	2931.3	5496.9	9961.2	10236.3	10209.4	9667.1
67.5°	1136.3	1145.2	1196.1	1271.8	1695.4	2715.1	4819.1	9688.1	9919.3	10011.0	9589.4
70°	1007.7	1014.7	1074.5	1119.3	1421.3	2396.1	4046.7	9269.5	9519.6	9434.9	9067.1
72.5°	860.2	871.1	919.0	974.8	1182.1	2020.3	3169.6	8393.3	8966.5	8910.6	8291.7
75°	694.7	711.7	750.5	817.3	960.8	1604.7	2243.6	6791.6	8015.6	8099.3	7155.4
77.5°	328.9	345.9	380.7	436.6	582.1	1119.3	1228.0	3828.4	6242.4	6760.7	5761.0
80°	107.6	109.6	258.1	295.0	369.8	689.7	501.3	1248.9	1848.9	3126.7	3098.8
82.5°	57.8	62.8	139.5	171.4	185.4	185.4	146.5	551.2	778.4	951.9	1102.4
85°	30.9	31.9	48.8	58.8	63.8	50.8	37.9	227.3	364.8	455.5	451.5
87.5°	13.0	14.0	15.0	13.0	11.0	7.0	5.0	4.0	4.0	4.0	4.0
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°	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0	2728.0
2.5°	2711.1	2697.1	2690.1	2661.2	2629.3	2595.4	2568.5	2569.5	2590.5	2606.4	2605.4
5°	2742.0	2707.1	2664.2	2596.4	2568.5	2543.6	2513.7	2473.8	2486.8	2502.8	2514.7
7.5°	2758.9	2714.1	2656.2	2555.6	2509.7	2455.9	2428.0	2376.2	2354.2	2370.2	2370.2
10°	2752.9	2707.1	2607.4	2533.7	2443.9	2359.2	2303.4	2290.5	2271.5	2268.5	2267.5
12.5°	2792.8	2725.0	2577.5	2468.9	2387.1	2278.5	2218.7	2206.7	2210.7	2185.8	2189.8
15°	2831.7	2754.9	2551.6	2439.0	2312.4	2184.8	2137.0	2093.1	2113.0	2092.1	2097.1
17.5°	2901.4	2808.7	2537.6	2379.2	2216.7	2106.1	2020.3	1970.5	1968.5	1965.5	1957.6
20°	2981.2	2852.6	2535.6	2327.3	2139.0	2007.4	1884.8	1830.0	1790.1	1804.1	1805.1
22.5°	3125.7	2935.3	2556.6	2279.5	2030.3	1882.8	1757.2	1673.5	1625.6	1633.6	1634.6
25°	3331.0	3108.8	2611.4	2238.6	1939.6	1738.3	1614.7	1509.0	1451.2	1452.2	1468.2
27.5°	3629.0	3316.1	2699.1	2203.7	1842.9	1601.7	1434.3	1330.6	1267.8	1266.8	1277.8
30°	3924.1	3575.2	2824.7	2153.9	1720.3	1418.3	1229.0	1146.2	1107.4	1081.4	1087.4
32.5°	4216.1	3853.3	2988.2	2128.0	1576.8	1202.0	1043.6	986.7	937.9	890.1	895.1
35°	4547.0	4114.4	3152.6	2076.2	1404.4	1022.6	912.0	834.3	771.5	746.5	741.6
37.5°	4935.7	4418.4	3266.2	2032.3	1200.0	902.0	767.5	709.7	668.8	641.9	637.9
40°	5278.6	4673.6	3391.8	1929.6	1003.7	793.4	640.9	610.0	605.0	584.1	581.1
42.5°	5625.5	4986.6	3477.5	1795.1	869.1	654.8	548.2	566.1	594.0	581.1	581.1
45°	5979.3	5313.5	3494.5	1593.7	740.6	554.2	525.3	559.2	598.0	601.0	600.0
47.5°	6367.0	5603.5	3527.4	1305.7	648.9	528.3	521.3	549.2	599.0	617.0	613.0
50°	6806.6	5917.5	3435.7	995.7	594.0	531.2	525.3	538.2	592.0	612.0	605.0
52.5°	7234.2	6219.5	3284.2	759.5	559.2	534.2	546.2	536.2	575.1	595.0	603.0
55°	7630.9	6552.4	2963.2	675.8	535.2	530.3	563.1	545.2	559.2	565.1	576.1
57.5°	8032.5	6797.6	2622.4	633.9	522.3	525.3	553.2	545.2	554.2	547.2	538.2
60°	8409.3	7055.8	2182.8	595.0	508.3	522.3	533.2	531.2	537.2	524.3	518.3
62.5°	8729.2	7195.3	1723.3	561.2	496.4	508.3	506.3	516.3	517.3	502.3	498.4
65°	8875.8	7255.1	1315.7	530.3	478.4	490.4	480.4	482.4	483.4	463.5	462.5
67.5°	8727.2	6926.2	902.0	484.4	459.5	474.4	455.5	452.5	445.5	425.6	426.6
70°	8293.7	6377.0	602.0	418.6	418.6	444.5	433.6	426.6	409.7	390.7	396.7
72.5°	7324.9	5444.1	390.7	337.9	367.8	409.7	404.7	394.7	354.8	301.0	303.0
75°	6265.4	4320.8	260.1	246.2	281.1	354.8	336.9	313.0	297.0	314.0	334.9
77.5°	4878.9	2754.9	145.5	141.5	166.5	249.2	281.1	286.1	404.7	480.4	475.4
80°	2532.7	1399.4	84.7	69.8	98.7	167.4	221.3	301.0	502.3	378.8	366.8
82.5°	995.7	524.3	51.8	36.9	43.9	68.8	146.5	432.6	380.7	191.4	183.4
85°	340.9	118.6	20.9	18.9	20.9	28.9	57.8	387.7	197.3	121.6	115.6
87.5°	4.0	4.0	5.0	6.0	7.0	7.0	15.9	184.4	91.7	56.8	54.8
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)