

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: P509525

Luminaire Tested: **VERD-G-CA2-110-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509525
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-CA2-110-760-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16524 lumens
Efficiency: N/A
Efficacy: 146.0 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

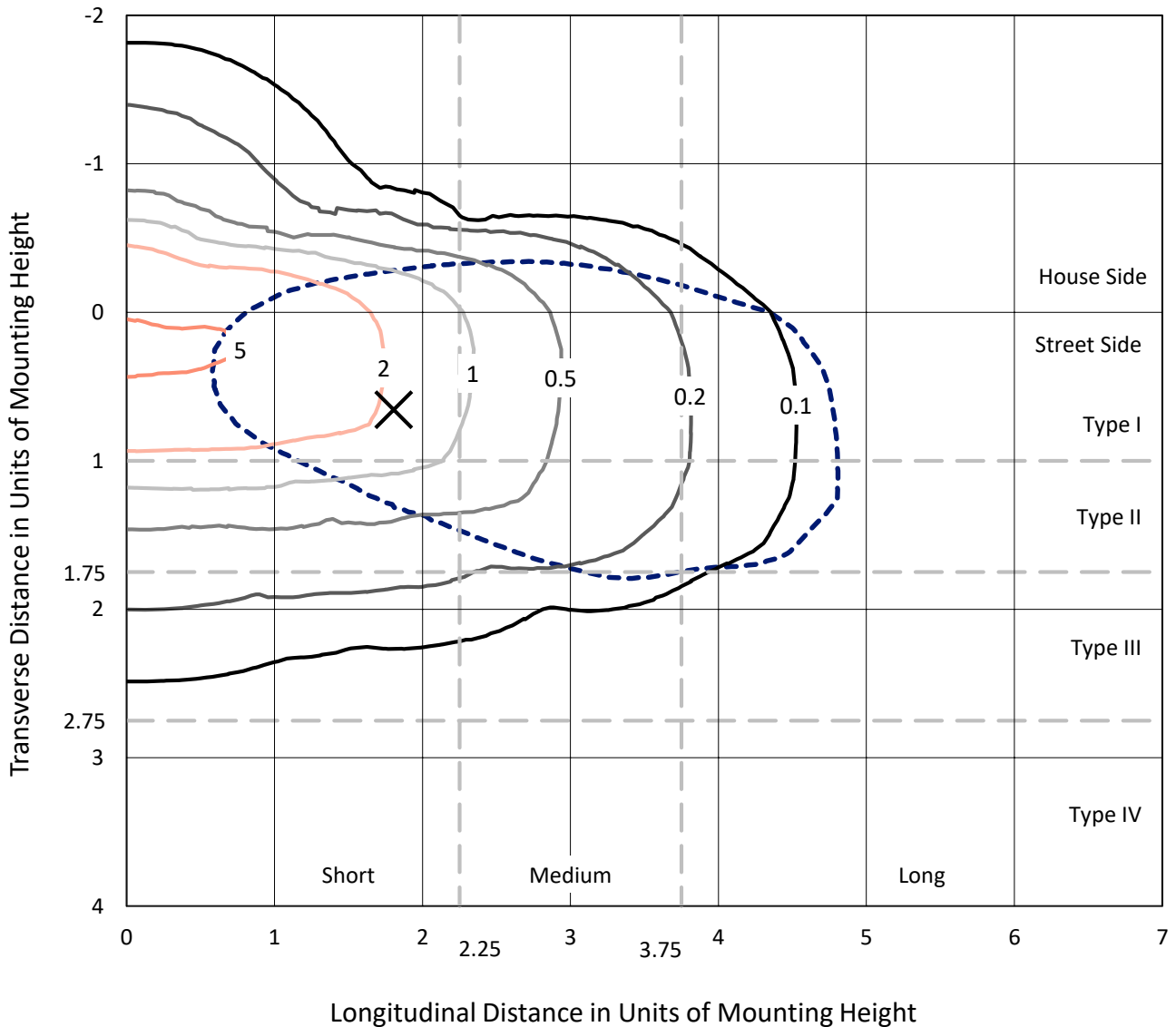
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

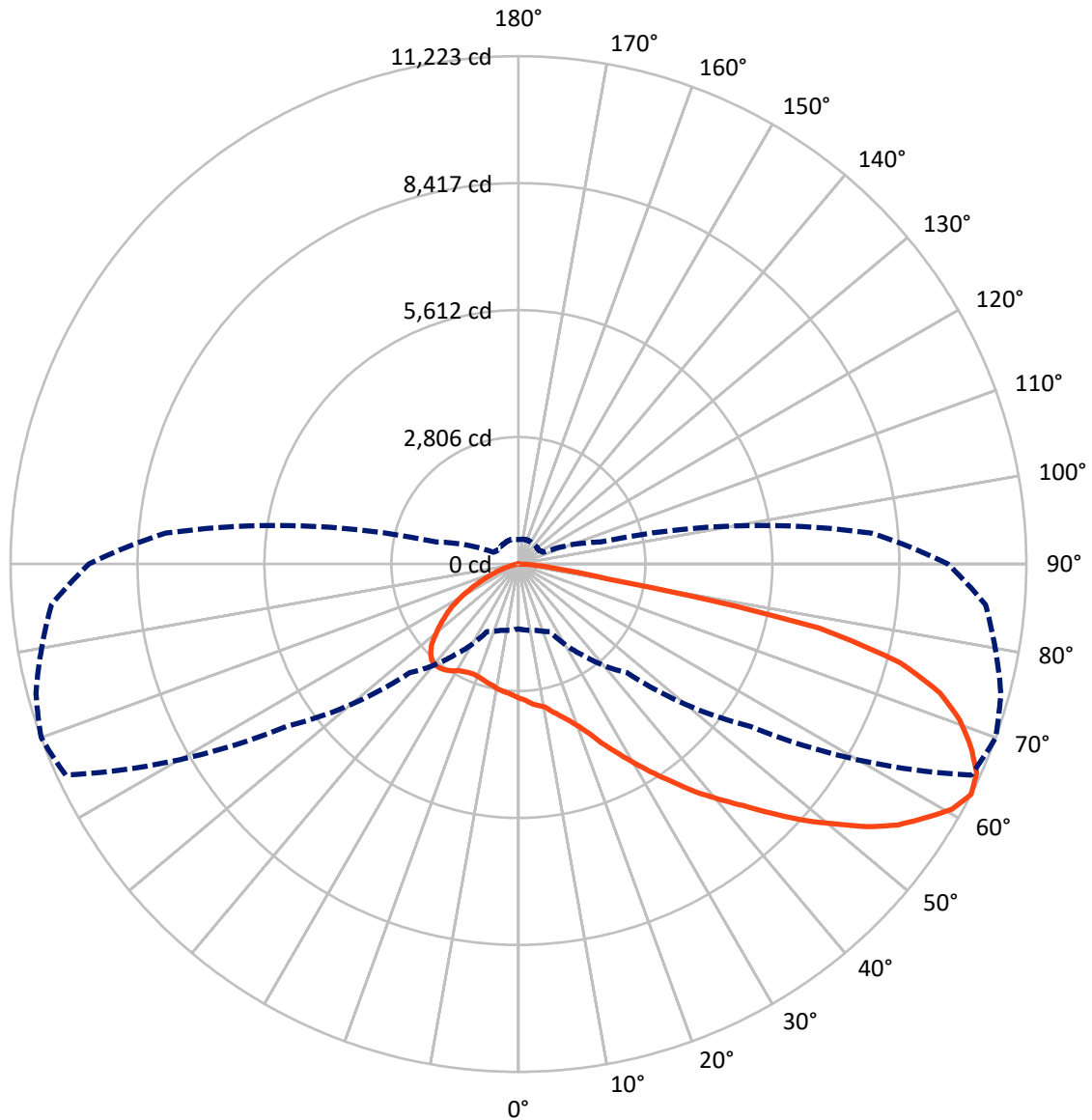
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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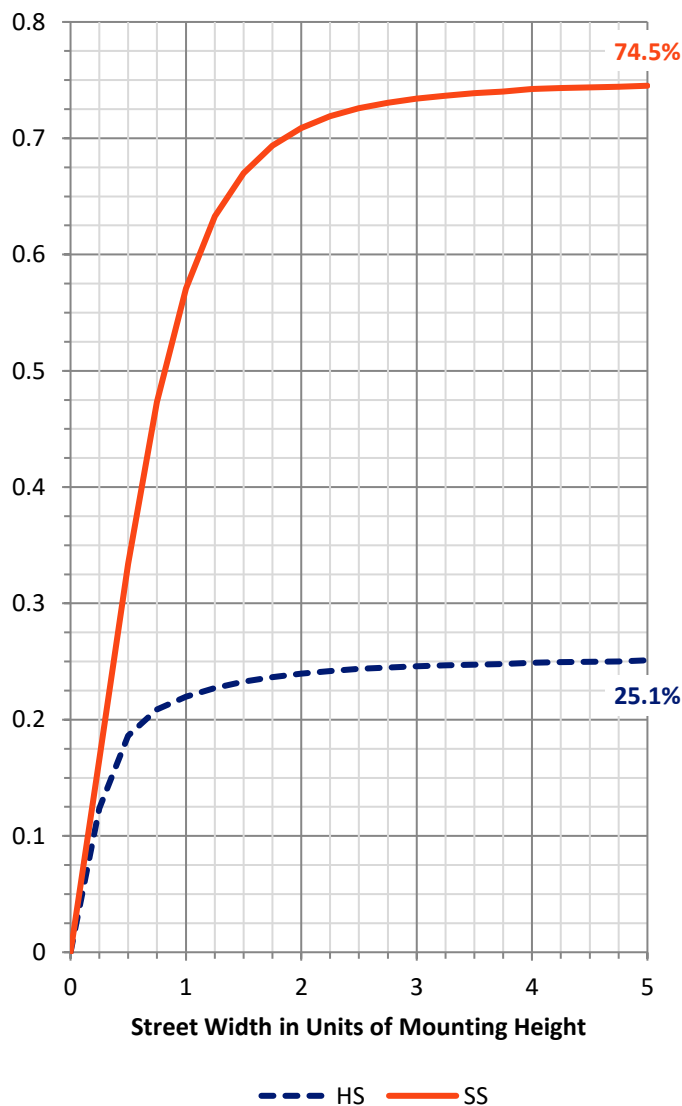
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4222.4	0.0	4222.4
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	12301.5	0.0	12301.5
	% Fixture	74.4	0.0	74.4
Total	Lumens	16524.0	0.0	16524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.7
10°-20°	871.1	5.3
20°-30°	1480.8	9.0
30°-40°	2130.8	12.9
40°-50°	2765.1	16.7
50°-60°	3241.4	19.6
60°-70°	3324.1	20.1
70°-80°	2181.2	13.2
80°-90°	243.0	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°	16524.0	100.0
0°-180°	16524.0	100.0

Coefficient of Utilization



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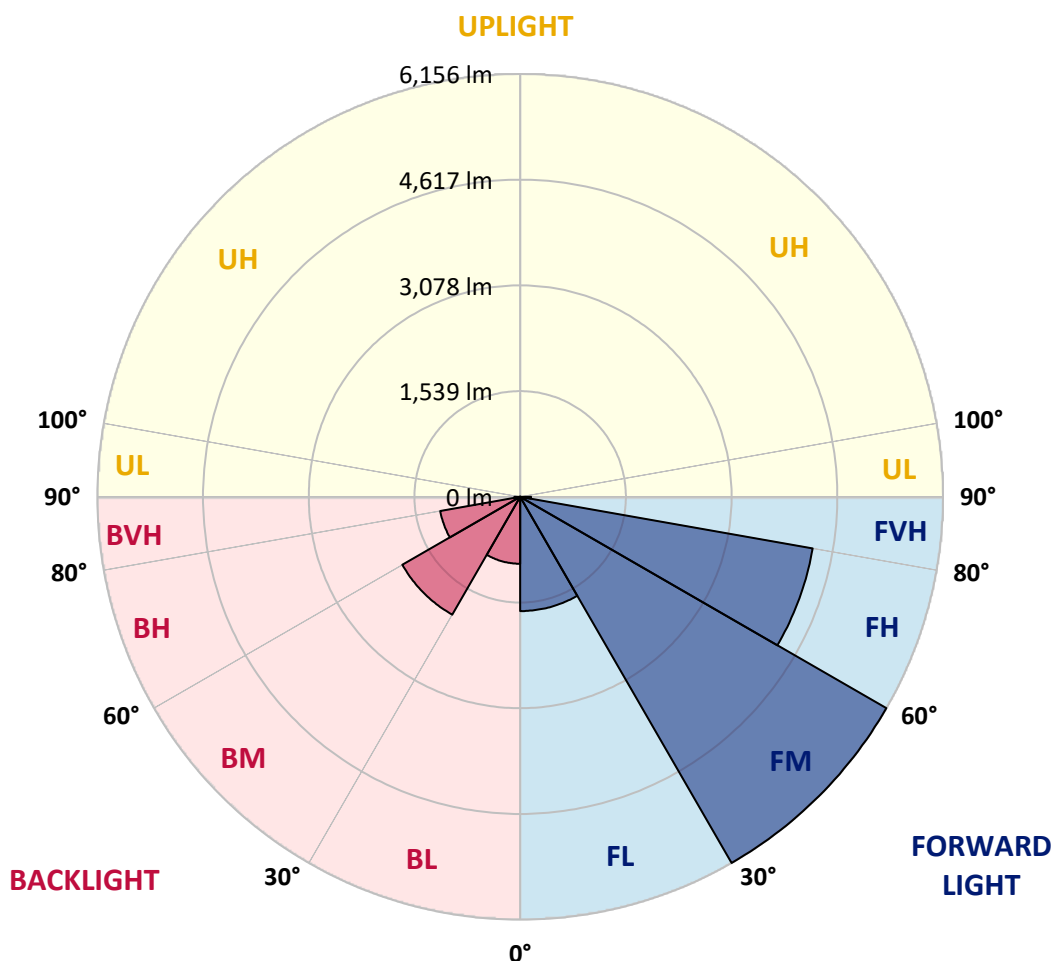
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.2	10.1			
FM (30°-60°)	6155.6	37.3			
FH (60°-80°)	4324.2	26.2			G2/5000
FVH (80°-90°)	158.5	1.0			G2/225
BL (0°-30°)	975.0	5.9	B2/1000		
BM (30°-60°)	1981.7	12.0	B2/2500		
BH (60°-80°)	1181.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	84.5	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°	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6
2.5°	3156.3	3168.3	3148.8	3130.3	3111.9	3101.1	3082.7	3030.6	3012.2	2996.0	2963.5
5°	3320.0	3336.2	3308.0	3249.5	3235.4	3189.9	3165.0	3120.6	3102.2	3074.0	3019.8
7.5°	3511.7	3513.9	3473.8	3455.4	3408.8	3347.0	3267.9	3186.7	3159.6	3130.3	3062.1
10°	3623.3	3646.1	3607.1	3549.7	3517.2	3461.9	3378.5	3271.2	3211.6	3159.6	3083.7
12.5°	3780.5	3785.9	3723.0	3690.5	3647.2	3577.8	3496.6	3403.4	3344.9	3248.4	3110.8
15°	3895.3	3898.6	3842.2	3807.5	3766.4	3725.2	3637.4	3539.9	3482.5	3386.0	3176.9
17.5°	3977.7	3991.7	3957.1	3932.1	3888.8	3859.6	3790.2	3713.3	3638.5	3551.8	3314.5
20°	4067.6	4075.2	4011.2	4022.1	4014.5	4001.5	3969.0	3896.4	3835.7	3720.9	3425.1
22.5°	4092.5	4079.5	4096.8	4139.1	4159.7	4174.9	4165.1	4148.9	4093.6	3950.6	3634.2
25°	4055.7	4071.9	4113.1	4205.2	4320.1	4388.3	4437.1	4449.0	4432.7	4296.2	3913.7
27.5°	4045.9	4038.3	4105.5	4262.6	4455.5	4614.8	4711.2	4802.2	4761.1	4675.5	4229.0
30°	4004.7	4001.5	4119.6	4281.0	4529.2	4825.0	4997.3	5151.1	5131.6	5044.9	4598.5
32.5°	3904.0	3925.6	4016.7	4296.2	4641.9	5028.7	5238.9	5491.4	5520.6	5456.7	4972.3
35°	3774.0	3781.5	3926.7	4256.1	4729.6	5207.5	5513.0	5864.1	5932.4	5930.2	5392.8
37.5°	3609.3	3652.6	3807.5	4156.4	4767.6	5371.1	5776.3	6260.7	6397.2	6376.6	5813.2
40°	3444.6	3471.6	3654.8	4029.7	4770.8	5480.5	5999.5	6684.3	6836.0	6839.3	6292.1
42.5°	3197.5	3243.0	3434.8	3862.8	4698.2	5573.7	6221.7	7128.6	7300.9	7325.8	6736.3
45°	2991.6	3006.8	3176.9	3603.8	4541.1	5623.5	6468.7	7583.7	7862.1	7841.5	7122.1
47.5°	2725.1	2784.7	2964.6	3359.0	4295.1	5632.2	6683.2	8112.4	8457.0	8409.3	7647.6
50°	2108.6	2174.7	2664.4	3137.9	3984.2	5533.6	6855.5	8740.9	9021.5	8970.6	8095.1
52.5°	1859.3	1891.9	2090.1	2880.0	3661.3	5298.5	6993.1	9336.8	9643.5	9486.4	8618.4
55°	1753.2	1768.3	1858.3	2355.6	3376.3	4912.7	7072.2	10005.4	10177.6	9944.7	9106.0
57.5°	1638.3	1674.1	1719.6	1985.0	3058.8	4378.6	7023.5	10560.1	10588.3	10356.4	9522.1
60°	1530.0	1545.1	1639.4	1779.2	2693.7	3827.0	6748.3	10905.8	11005.5	10720.5	10022.7
62.5°	1433.5	1460.6	1515.9	1647.0	2449.9	3398.0	6258.5	11039.1	11223.3	11038.0	10360.8
65°	1342.5	1351.2	1414.0	1533.2	2180.1	3186.7	5975.7	10828.9	11127.9	11098.7	10509.2
67.5°	1235.2	1245.0	1300.2	1382.6	1843.1	2951.6	5238.9	10532.0	10783.3	10883.0	10424.7
70°	1095.5	1103.0	1168.1	1216.8	1545.1	2604.8	4399.2	10076.9	10348.8	10256.7	9856.9
72.5°	935.1	947.0	999.0	1059.7	1285.1	2196.3	3445.6	9124.5	9747.5	9686.8	9013.9
75°	755.2	773.6	815.9	888.5	1044.5	1744.5	2439.0	7383.2	8713.8	8804.8	7778.7
77.5°	357.6	376.0	413.9	474.6	632.8	1216.8	1334.9	4161.9	6786.2	7349.6	6262.8
80°	117.0	119.2	280.6	320.7	402.0	749.8	545.0	1357.7	2010.0	3399.1	3368.7
82.5°	62.8	68.3	151.7	186.4	201.5	201.5	159.3	599.2	846.2	1034.8	1198.4
85°	33.6	34.7	53.1	63.9	69.3	55.3	41.2	247.0	396.6	495.2	490.8
87.5°	14.1	15.2	16.3	14.1	11.9	7.6	5.4	4.3	4.3	4.3	4.3
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°	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6	2965.6
2.5°	2947.2	2932.0	2924.5	2893.0	2858.4	2821.5	2792.3	2793.4	2816.1	2833.4	2832.4
5°	2980.8	2942.9	2896.3	2822.6	2792.3	2765.2	2732.7	2689.3	2703.4	2720.8	2733.8
7.5°	2999.2	2950.5	2887.6	2778.2	2728.3	2669.8	2639.5	2583.1	2559.3	2576.6	2576.6
10°	2992.7	2942.9	2834.5	2754.3	2656.8	2564.7	2504.1	2490.0	2469.4	2466.1	2465.0
12.5°	3036.1	2962.4	2802.0	2683.9	2595.1	2477.0	2411.9	2398.9	2403.3	2376.2	2380.5
15°	3078.3	2994.9	2773.9	2651.4	2513.8	2375.1	2323.1	2275.4	2297.1	2274.3	2279.8
17.5°	3154.2	3053.4	2758.7	2586.4	2409.8	2289.5	2196.3	2142.1	2140.0	2136.7	2128.1
20°	3240.9	3101.1	2756.5	2530.1	2325.3	2182.2	2049.0	1989.4	1946.0	1961.2	1962.3
22.5°	3398.0	3191.0	2779.3	2478.0	2207.2	2046.8	1910.3	1819.3	1767.2	1775.9	1777.0
25°	3621.2	3379.5	2838.9	2433.6	2108.6	1889.7	1755.3	1640.5	1577.6	1578.7	1596.0
27.5°	3945.2	3604.9	2934.2	2395.7	2003.5	1741.2	1559.2	1446.5	1378.3	1377.2	1389.1
30°	4265.9	3886.6	3070.7	2341.5	1870.2	1541.9	1336.0	1246.1	1203.8	1175.6	1182.1
32.5°	4583.4	4188.9	3248.4	2313.3	1714.2	1306.7	1134.5	1072.7	1019.6	967.6	973.0
35°	4943.1	4472.8	3427.2	2257.0	1526.7	1111.7	991.4	906.9	838.7	811.6	806.2
37.5°	5365.7	4803.3	3550.7	2209.3	1304.6	980.6	834.3	771.5	727.1	697.8	693.5
40°	5738.4	5080.7	3687.3	2097.7	1091.1	862.5	696.7	663.1	657.7	635.0	631.7
42.5°	6115.5	5420.9	3780.5	1951.4	944.8	711.9	595.9	615.4	645.8	631.7	631.7
45°	6500.1	5776.3	3798.9	1732.6	805.1	602.4	571.0	607.9	650.1	653.4	652.3
47.5°	6921.6	6091.6	3834.6	1419.4	705.4	574.3	566.7	597.0	651.2	670.7	666.4
50°	7399.5	6432.9	3734.9	1082.5	645.8	577.5	571.0	585.1	643.6	665.3	657.7
52.5°	7864.3	6761.3	3570.2	825.7	607.9	580.8	593.8	582.9	625.2	646.9	655.5
55°	8295.5	7123.2	3221.4	734.6	581.9	576.4	612.2	592.7	607.9	614.4	626.3
57.5°	8732.2	7389.7	2850.8	689.1	567.8	571.0	601.4	592.7	602.4	594.9	585.1
60°	9141.8	7670.3	2372.9	646.9	552.6	567.8	579.7	577.5	584.0	569.9	563.4
62.5°	9489.6	7822.0	1873.4	610.0	539.6	552.6	550.4	561.3	562.4	546.1	541.8
65°	9648.9	7887.1	1430.3	576.4	520.1	533.1	522.3	524.4	525.5	503.8	502.8
67.5°	9487.4	7529.5	980.6	526.6	499.5	515.8	495.2	491.9	484.3	462.7	463.8
70°	9016.1	6932.5	654.5	455.1	455.1	483.3	471.3	463.8	445.3	424.7	431.2
72.5°	7962.9	5918.3	424.7	367.3	399.8	445.3	439.9	429.1	385.7	327.2	329.4
75°	6811.1	4697.1	282.8	267.6	305.6	385.7	366.2	340.2	322.9	341.3	364.1
77.5°	5303.9	2994.9	158.2	153.9	181.0	270.9	305.6	311.0	439.9	522.3	516.8
80°	2753.3	1521.3	92.1	75.8	107.3	182.0	240.5	327.2	546.1	411.7	398.7
82.5°	1082.5	569.9	56.3	40.1	47.7	74.8	159.3	470.3	413.9	208.0	199.4
85°	370.6	128.9	22.8	20.6	22.8	31.4	62.8	421.5	214.5	132.2	125.7
87.5°	4.3	4.3	5.4	6.5	7.6	7.6	17.3	200.5	99.7	61.8	59.6
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)