

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: P509597

Luminaire Tested: **VERD-G-CA2-130-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509597
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-CA2-130-730-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18563 lumens
Efficiency: N/A
Efficacy: 138.6 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

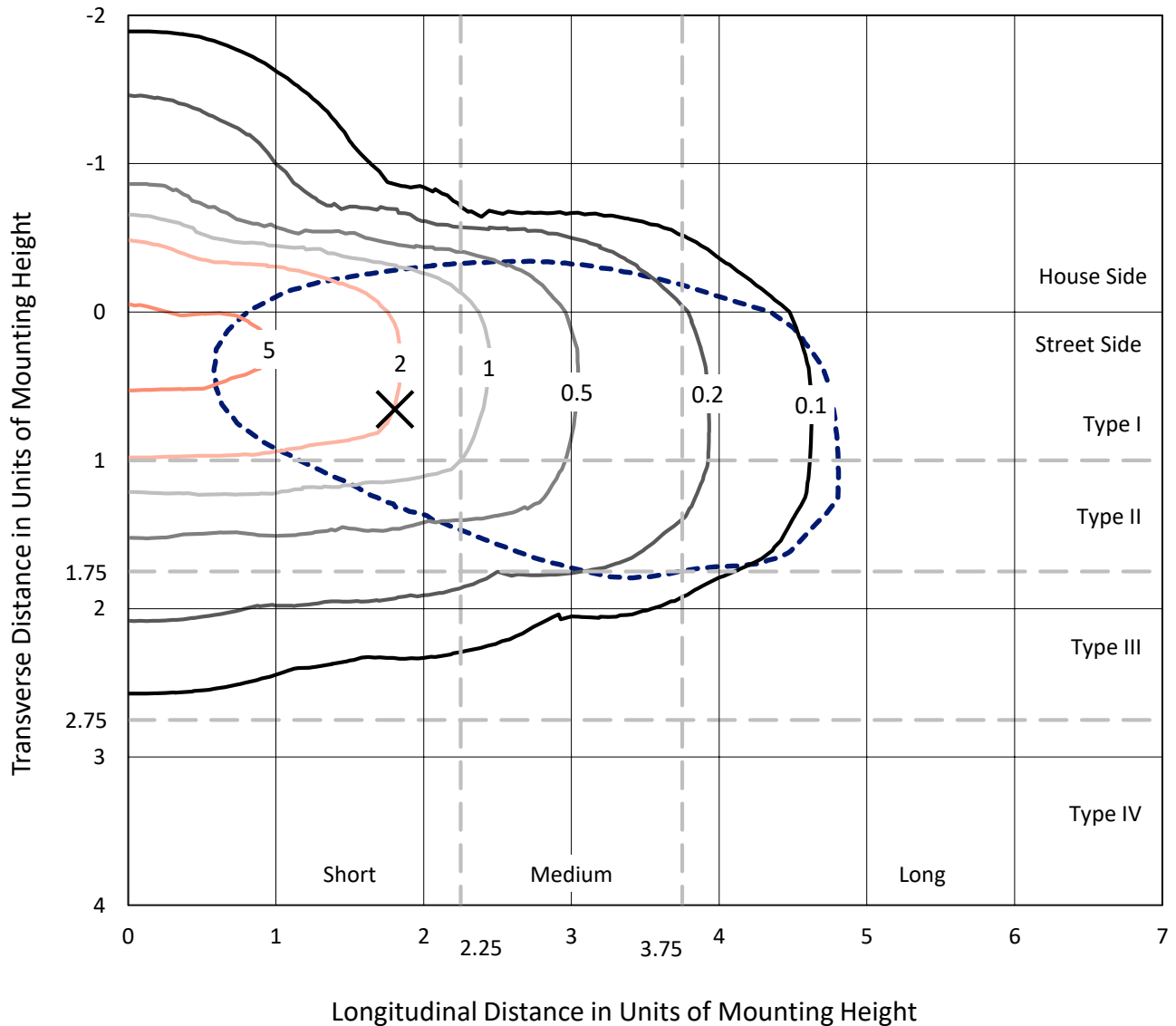
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

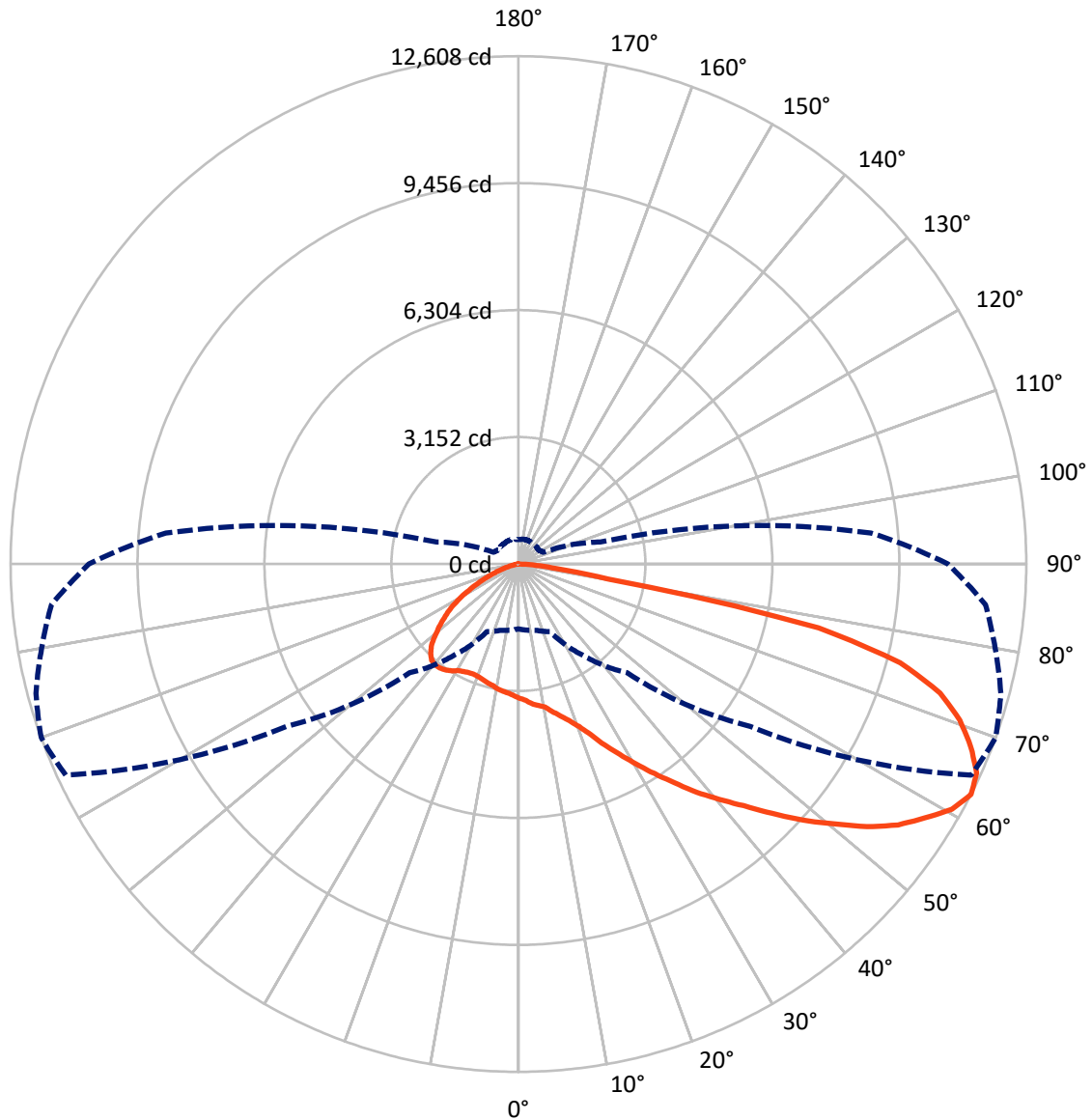
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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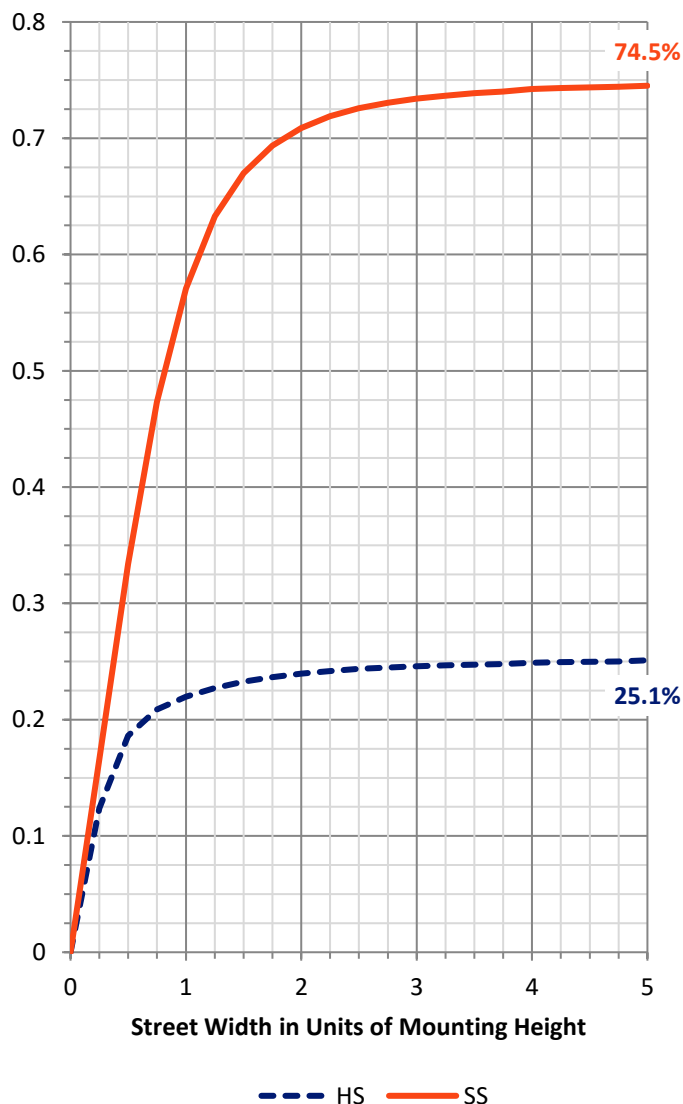
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4743.5	0.0	4743.5
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	13819.5	0.0	13819.5
	% Fixture	74.4	0.0	74.4
Total	Lumens	18563.0	0.0	18563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	1.7
10°-20°	978.6	5.3
20°-30°	1663.5	9.0
30°-40°	2393.7	12.9
40°-50°	3106.3	16.7
50°-60°	3641.4	19.6
60°-70°	3734.3	20.1
70°-80°	2450.4	13.2
80°-90°	273.0	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°	18563.0	100.0
0°-180°	18563.0	100.0

Coefficient of Utilization



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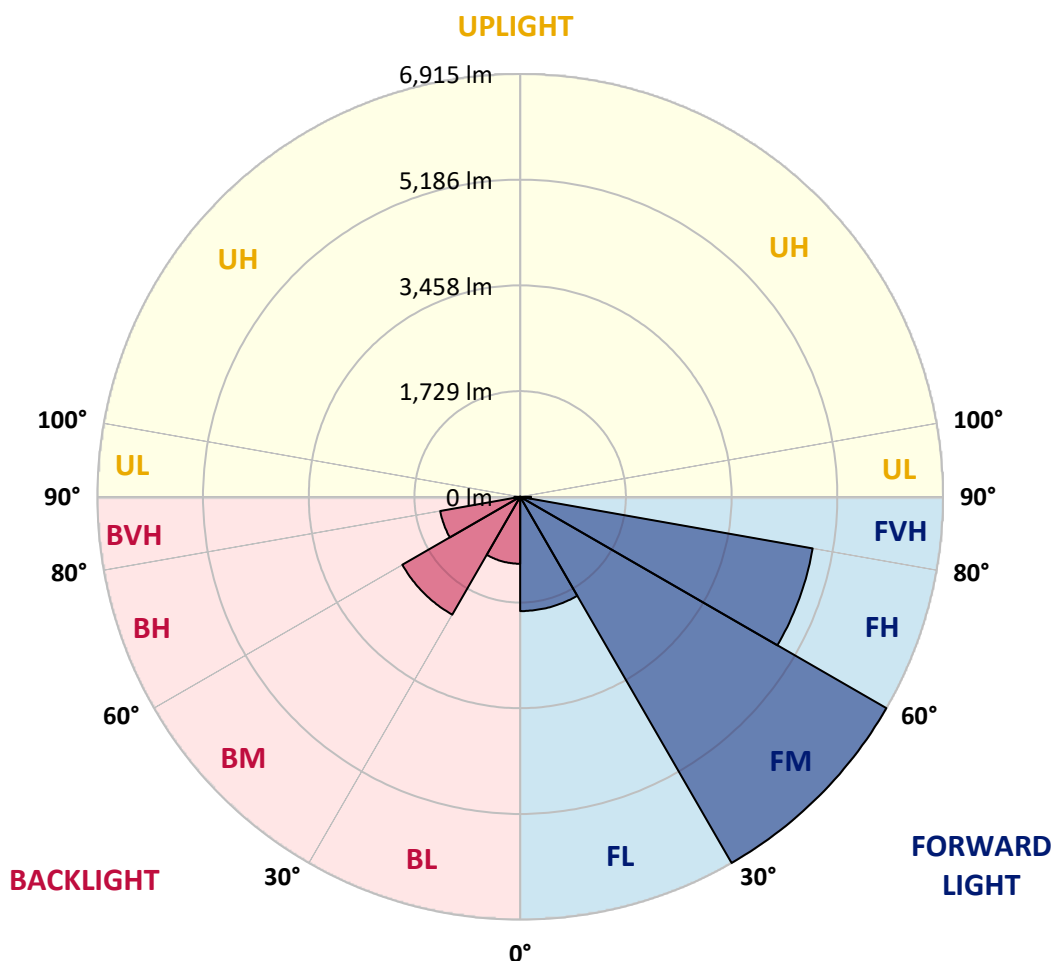
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1868.5	10.1			
FM (30°-60°)	6915.2	37.3			
FH (60°-80°)	4857.8	26.2			G2/5000
FVH (80°-90°)	178.0	1.0			G2/225
BL (0°-30°)	1095.3	5.9	B3/2500		
BM (30°-60°)	2226.3	12.0	B2/2500		
BH (60°-80°)	1326.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	95.0	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°	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6
2.5°	3545.8	3559.2	3537.3	3516.6	3495.9	3483.7	3463.0	3404.6	3383.9	3365.7	3329.2
5°	3729.6	3747.9	3716.2	3650.5	3634.7	3583.6	3555.6	3505.6	3485.0	3453.3	3392.4
7.5°	3945.1	3947.5	3902.5	3881.8	3829.4	3760.1	3671.2	3579.9	3549.5	3516.6	3439.9
10°	4070.4	4096.0	4052.2	3987.7	3951.2	3889.1	3795.4	3674.8	3607.9	3549.5	3464.3
12.5°	4246.9	4253.0	4182.4	4145.9	4097.2	4019.3	3928.0	3823.3	3757.6	3649.3	3494.7
15°	4376.0	4379.6	4316.3	4277.4	4231.1	4184.9	4086.3	3976.7	3912.2	3803.9	3568.9
17.5°	4468.5	4484.3	4445.4	4417.4	4368.7	4335.8	4257.9	4171.5	4087.5	3990.1	3723.5
20°	4569.5	4578.0	4506.2	4518.4	4509.9	4495.3	4458.7	4377.2	4309.0	4180.0	3847.7
22.5°	4597.5	4582.9	4602.4	4649.9	4673.0	4690.0	4679.1	4660.8	4598.7	4438.1	4082.6
25°	4556.1	4574.4	4620.6	4724.1	4853.1	4929.8	4984.6	4998.0	4979.7	4826.4	4396.7
27.5°	4545.2	4536.7	4612.1	4788.6	5005.3	5184.2	5292.6	5394.8	5348.6	5252.4	4750.9
30°	4498.9	4495.3	4627.9	4809.3	5088.1	5420.4	5613.9	5786.8	5764.8	5667.5	5166.0
32.5°	4385.7	4410.1	4512.3	4826.4	5214.7	5649.2	5885.4	6169.0	6201.8	6130.0	5585.9
35°	4239.6	4248.2	4411.3	4781.3	5313.3	5850.1	6193.3	6587.7	6664.4	6662.0	6058.2
37.5°	4054.6	4103.3	4277.4	4669.3	5355.9	6033.9	6489.1	7033.2	7186.6	7163.5	6530.5
40°	3869.6	3900.0	4105.7	4526.9	5359.5	6156.8	6739.9	7509.2	7679.6	7683.2	7068.5
42.5°	3592.1	3643.2	3858.6	4339.5	5278.0	6261.5	6989.4	8008.2	8201.8	8229.8	7567.6
45°	3360.8	3377.8	3568.9	4048.5	5101.5	6317.5	7266.9	8519.5	8832.3	8809.2	8000.9
47.5°	3061.4	3128.3	3330.4	3773.4	4825.1	6327.2	7507.9	9113.5	9500.6	9447.0	8591.3
50°	2368.7	2443.0	2993.2	3525.1	4475.8	6216.4	7701.5	9819.5	10134.7	10077.5	9094.0
52.5°	2088.8	2125.3	2348.1	3235.4	4113.1	5952.3	7856.1	10489.0	10833.4	10656.9	9681.9
55°	1969.5	1986.5	2087.6	2646.3	3792.9	5519.0	7944.9	11240.0	11433.5	11171.8	10229.7
57.5°	1840.5	1880.6	1931.8	2230.0	3436.3	4918.9	7890.1	11863.2	11894.9	11634.4	10697.1
60°	1718.7	1735.8	1841.7	1998.7	3026.1	4299.3	7581.0	12251.5	12363.5	12043.4	11259.5
62.5°	1610.4	1640.8	1702.9	1850.2	2752.2	3817.3	7030.8	12401.2	12608.2	12400.0	11639.2
65°	1508.2	1517.9	1588.5	1722.4	2449.1	3579.9	6713.1	12165.1	12501.1	12468.2	11806.0
67.5°	1387.7	1398.6	1460.7	1553.2	2070.5	3315.8	5885.4	11831.6	12114.0	12226.0	11711.1
70°	1230.6	1239.1	1312.2	1367.0	1735.8	2926.2	4942.0	11320.3	11625.9	11522.4	11073.2
72.5°	1050.5	1063.9	1122.3	1190.5	1443.6	2467.3	3870.8	10250.4	10950.3	10882.1	10126.2
75°	848.4	869.1	916.6	998.1	1173.4	1959.8	2740.0	8294.3	9789.0	9891.3	8738.6
77.5°	401.7	422.4	465.0	533.2	710.9	1367.0	1499.6	4675.4	7623.6	8256.5	7035.6
80°	131.5	133.9	315.3	360.3	451.6	842.3	612.3	1525.2	2258.0	3818.5	3784.4
82.5°	70.6	76.7	170.4	209.4	226.4	226.4	178.9	673.1	950.7	1162.5	1346.3
85°	37.7	39.0	59.6	71.8	77.9	62.1	46.3	277.5	445.5	556.3	551.4
87.5°	15.8	17.0	18.3	15.8	13.4	8.5	6.1	4.9	4.9	4.9	4.9
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°	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6	3331.6
2.5°	3310.9	3293.9	3285.3	3250.0	3211.1	3169.7	3136.8	3138.0	3163.6	3183.1	3181.9
5°	3348.6	3306.0	3253.7	3170.9	3136.8	3106.4	3069.9	3021.2	3037.0	3056.5	3071.1
7.5°	3369.3	3314.5	3243.9	3121.0	3065.0	2999.3	2965.2	2901.9	2875.1	2894.6	2894.6
10°	3362.0	3306.0	3184.3	3094.2	2984.7	2881.2	2813.0	2797.2	2774.1	2770.4	2769.2
12.5°	3410.7	3327.9	3147.8	3015.1	2915.3	2782.6	2709.6	2695.0	2699.8	2669.4	2674.3
15°	3458.2	3364.5	3116.1	2978.6	2824.0	2668.2	2609.8	2556.2	2580.5	2555.0	2561.1
17.5°	3543.4	3430.2	3099.1	2905.6	2707.1	2572.0	2467.3	2406.5	2404.0	2400.4	2390.7
20°	3640.8	3483.7	3096.7	2842.3	2612.2	2451.5	2301.8	2234.9	2186.2	2203.2	2204.4
22.5°	3817.3	3584.8	3122.2	2783.8	2479.5	2299.4	2146.0	2043.7	1985.3	1995.1	1996.3
25°	4068.0	3796.6	3189.2	2733.9	2368.7	2122.9	1971.9	1842.9	1772.3	1773.5	1793.0
27.5°	4432.0	4049.8	3296.3	2691.3	2250.7	1956.1	1751.6	1625.0	1548.3	1547.1	1560.5
30°	4792.3	4366.2	3449.7	2630.5	2101.0	1732.1	1500.9	1399.8	1352.4	1320.7	1328.0
32.5°	5148.9	4705.8	3649.3	2598.8	1925.7	1468.0	1274.4	1205.1	1145.4	1087.0	1093.1
35°	5553.0	5024.8	3850.1	2535.5	1715.1	1248.9	1113.8	1018.8	942.1	911.7	905.6
37.5°	6027.8	5396.0	3988.9	2482.0	1465.6	1101.6	937.3	866.7	816.8	783.9	779.0
40°	6446.5	5707.6	4142.3	2356.6	1225.8	968.9	782.7	745.0	738.9	713.3	709.7
42.5°	6870.1	6089.8	4246.9	2192.2	1061.4	799.7	669.5	691.4	725.5	709.7	709.7
45°	7302.2	6489.1	4267.6	1946.4	904.4	676.8	641.5	682.9	730.3	734.0	732.8
47.5°	7775.7	6843.3	4307.8	1594.6	792.4	645.1	636.6	670.7	731.6	753.5	748.6
50°	8312.5	7226.8	4195.8	1216.0	725.5	648.8	641.5	657.3	723.0	747.4	738.9
52.5°	8834.7	7595.6	4010.8	927.5	682.9	652.4	667.0	654.9	702.3	726.7	736.4
55°	9319.2	8002.1	3618.9	825.3	653.7	647.6	687.7	665.8	682.9	690.2	703.6
57.5°	9809.7	8301.6	3202.6	774.2	637.8	641.5	675.6	665.8	676.8	668.3	657.3
60°	10269.8	8616.8	2665.8	726.7	620.8	637.8	651.2	648.8	656.1	640.3	633.0
62.5°	10660.6	8787.3	2104.6	685.3	606.2	620.8	618.4	630.5	631.7	613.5	608.6
65°	10839.5	8860.3	1606.8	647.6	584.3	598.9	586.7	589.1	590.4	566.0	564.8
67.5°	10658.1	8458.6	1101.6	591.6	561.1	579.4	556.3	552.6	544.1	519.8	521.0
70°	10128.7	7787.9	735.2	511.2	511.2	542.9	529.5	521.0	500.3	477.2	484.5
72.5°	8945.5	6648.6	477.2	412.6	449.2	500.3	494.2	482.0	433.3	367.6	370.0
75°	7651.6	5276.7	317.7	300.7	343.3	433.3	411.4	382.2	362.7	383.4	409.0
77.5°	5958.4	3364.5	177.7	172.8	203.3	304.3	343.3	349.3	494.2	586.7	580.6
80°	3093.0	1709.0	103.5	85.2	120.5	204.5	270.2	367.6	613.5	462.6	447.9
82.5°	1216.0	640.3	63.3	45.0	53.6	84.0	178.9	528.3	465.0	233.7	224.0
85°	416.3	144.9	25.6	23.1	25.6	35.3	70.6	473.5	241.0	148.5	141.2
87.5°	4.9	4.9	6.1	7.3	8.5	8.5	19.5	225.2	112.0	69.4	66.9
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)