

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: P553505

Luminaire Tested: **VERD-G-CA2-140-727-U-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-727-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1290mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17524 lumens
Efficiency: N/A
Efficacy: 123.1 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

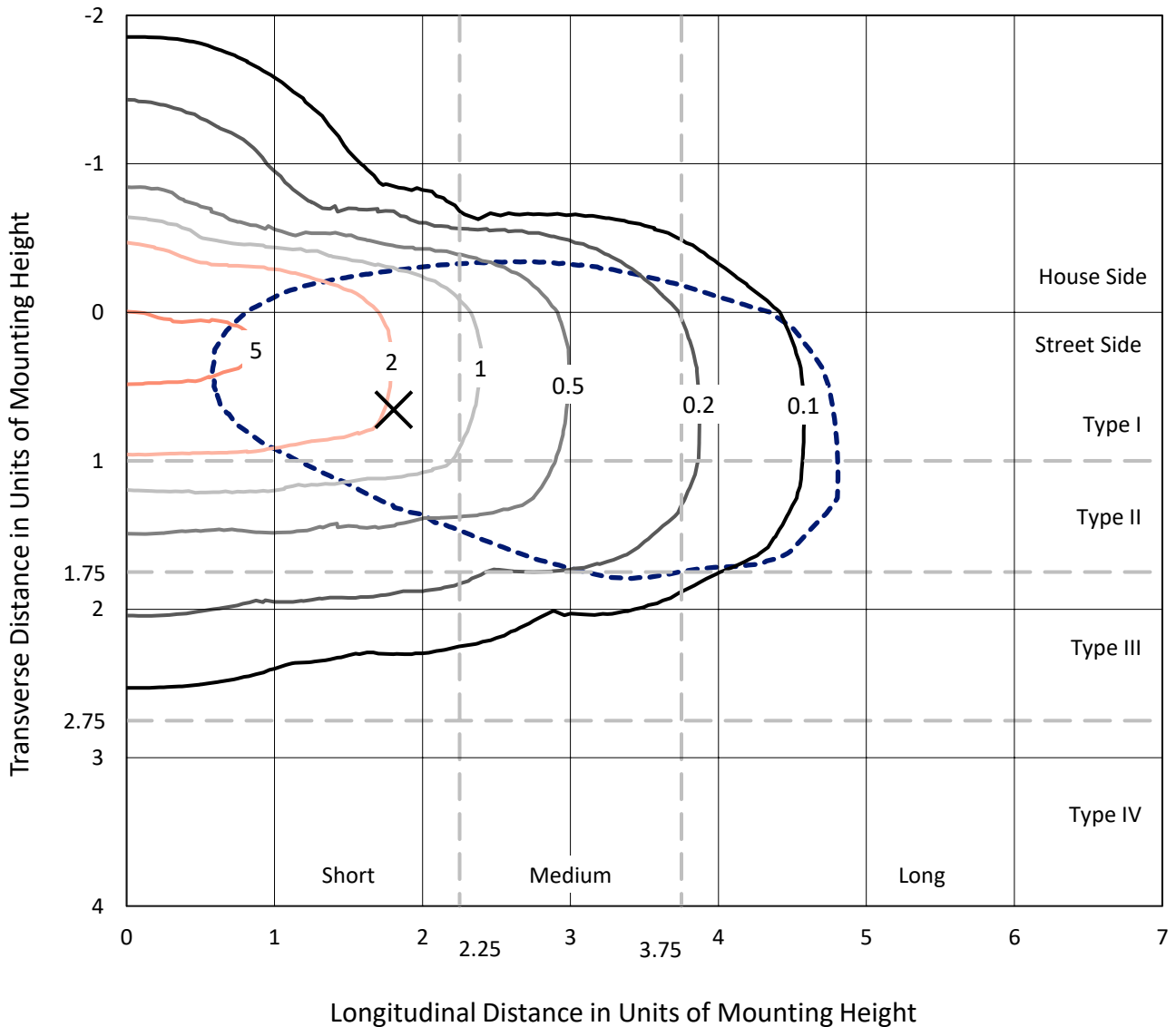
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

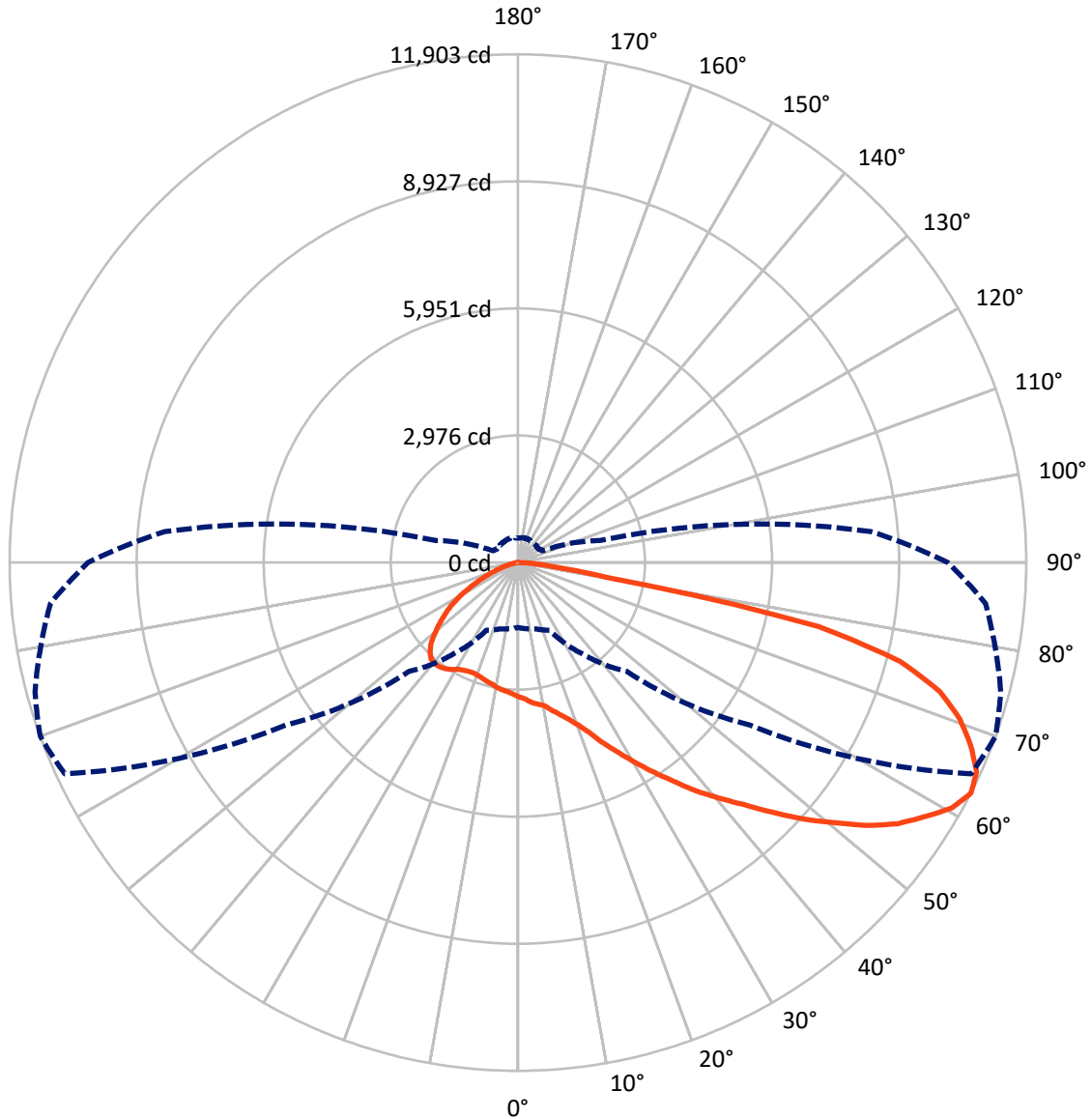
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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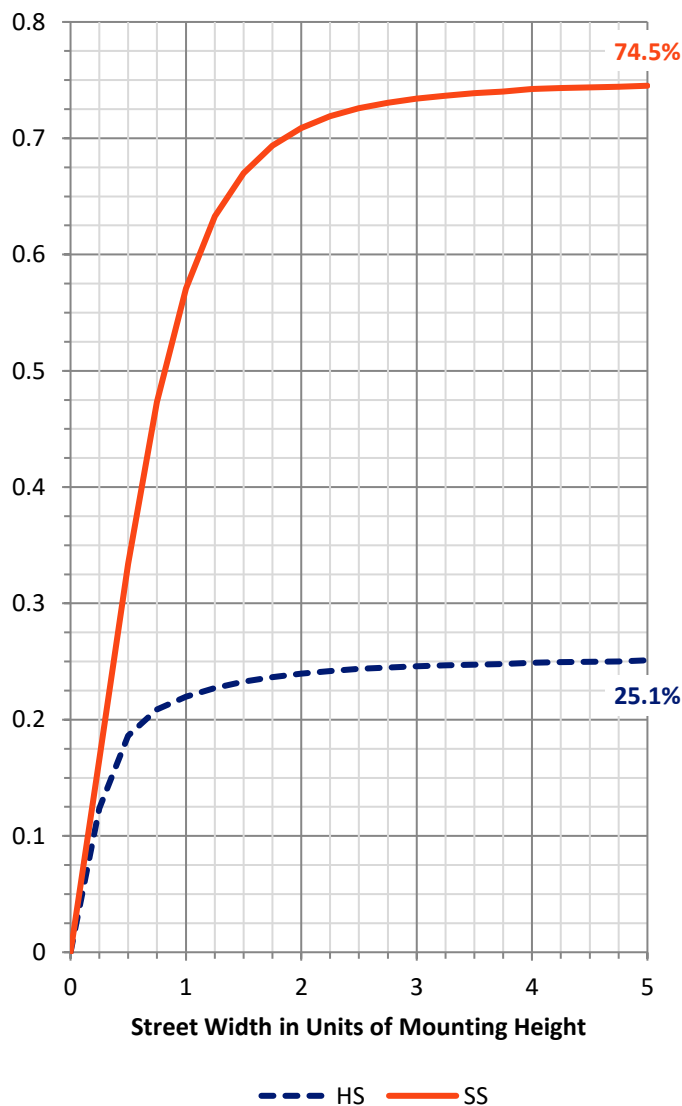
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4478.0	0.0	4478.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	13046.0	0.0	13046.0
	% Fixture	74.4	0.0	74.4
Total	Lumens	17524.0	0.0	17524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	1.7
10°-20°	923.9	5.3
20°-30°	1570.4	9.0
30°-40°	2259.7	12.9
40°-50°	2932.5	16.7
50°-60°	3437.6	19.6
60°-70°	3525.3	20.1
70°-80°	2313.2	13.2
80°-90°	257.7	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°	17524.0	100.0
0°-180°	17524.0	100.0

Coefficient of Utilization



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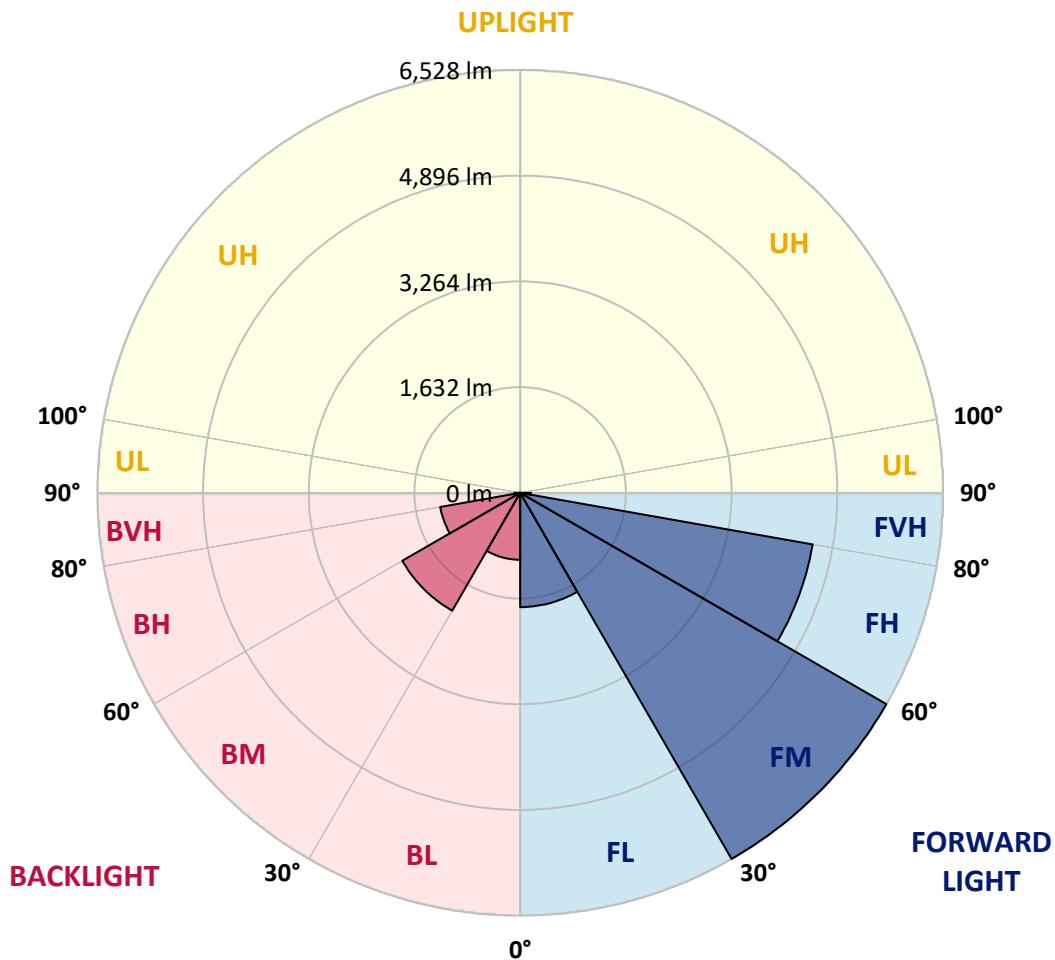
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.9	10.1			
FM (30°-60°)	6528.2	37.3			
FH (60°-80°)	4585.9	26.2			G2/5000
FVH (80°-90°)	168.0	1.0			G2/225
BL (0°-30°)	1034.0	5.9	B3/2500		
BM (30°-60°)	2101.7	12.0	B2/2500		
BH (60°-80°)	1252.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	89.7	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°	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1
2.5°	3347.4	3360.0	3339.3	3319.8	3300.2	3288.7	3269.2	3214.1	3194.5	3177.3	3142.8
5°	3520.9	3538.1	3508.2	3446.2	3431.2	3383.0	3356.5	3309.4	3289.9	3260.0	3202.6
7.5°	3724.3	3726.6	3684.0	3664.5	3615.1	3549.6	3465.7	3379.5	3350.8	3319.8	3247.4
10°	3842.6	3866.8	3825.4	3764.5	3730.0	3671.4	3582.9	3469.2	3406.0	3350.8	3270.4
12.5°	4009.2	4015.0	3948.3	3913.9	3867.9	3794.4	3708.2	3609.4	3547.3	3445.0	3299.1
15°	4131.0	4134.5	4074.7	4038.0	3994.3	3950.6	3857.6	3754.1	3693.2	3591.0	3369.2
17.5°	4218.4	4233.3	4196.5	4170.1	4124.2	4093.1	4019.6	3938.0	3858.7	3766.8	3515.1
20°	4313.8	4321.8	4254.0	4265.5	4257.4	4243.7	4209.2	4132.2	4067.8	3946.0	3632.3
22.5°	4340.2	4326.4	4344.8	4389.6	4411.4	4427.5	4417.2	4399.9	4341.3	4189.7	3854.1
25°	4301.1	4318.4	4362.0	4459.7	4581.5	4653.9	4705.6	4718.2	4701.0	4556.2	4150.6
27.5°	4290.8	4282.7	4354.0	4520.6	4725.1	4894.1	4996.3	5092.8	5049.2	4958.4	4485.0
30°	4247.1	4243.7	4368.9	4540.1	4803.3	5117.0	5299.7	5462.9	5442.2	5350.3	4876.8
32.5°	4140.2	4163.2	4259.7	4556.2	4922.8	5333.0	5555.9	5823.7	5854.7	5786.9	5273.3
35°	4002.3	4010.4	4164.4	4513.7	5015.9	5522.6	5846.7	6219.0	6291.4	6289.1	5719.1
37.5°	3827.7	3873.6	4038.0	4408.0	5056.1	5696.1	6125.9	6639.6	6784.3	6762.5	6165.0
40°	3653.0	3681.7	3875.9	4273.5	5059.5	5812.2	6362.6	7088.9	7249.7	7253.2	6672.9
42.5°	3391.0	3439.3	3642.7	4096.6	4982.5	5911.0	6598.2	7560.0	7742.7	7769.1	7144.0
45°	3172.7	3188.8	3369.2	3821.9	4815.9	5963.9	6860.2	8042.6	8337.9	8316.1	7553.1
47.5°	2890.0	2953.2	3144.0	3562.2	4555.1	5973.1	7087.7	8603.4	8968.8	8918.2	8110.4
50°	2236.2	2306.3	2825.7	3327.8	4225.3	5868.5	7270.4	9269.9	9567.5	9513.5	8585.0
52.5°	1971.9	2006.3	2216.6	3054.3	3882.8	5619.1	7416.3	9901.9	10227.1	10060.4	9140.0
55°	1859.3	1875.3	1970.7	2498.2	3580.6	5210.1	7500.2	10610.9	10793.6	10546.5	9657.1
57.5°	1737.5	1775.4	1823.6	2105.2	3243.9	4643.5	7448.5	11199.2	11229.1	10983.2	10098.4
60°	1622.5	1638.6	1738.6	1886.8	2856.7	4058.7	7156.6	11565.8	11671.5	11369.3	10629.3
62.5°	1520.3	1549.0	1607.6	1746.6	2598.1	3603.6	6637.3	11707.1	11902.5	11706.0	10987.8
65°	1423.7	1432.9	1499.6	1626.0	2312.0	3379.5	6337.3	11484.2	11801.3	11770.3	11145.2
67.5°	1310.0	1320.3	1378.9	1466.3	1954.6	3130.2	5555.9	11169.3	11435.9	11541.6	11055.6
70°	1161.7	1169.8	1238.7	1290.4	1638.6	2762.5	4665.4	10686.7	10975.1	10877.5	10453.4
72.5°	991.7	1004.3	1059.5	1123.8	1362.8	2329.2	3654.2	9676.6	10337.4	10273.0	9559.4
75°	800.9	820.5	865.3	942.3	1107.7	1850.1	2586.6	7830.0	9241.1	9337.7	8249.5
77.5°	379.2	398.7	439.0	503.3	671.1	1290.4	1415.7	4413.7	7196.9	7794.4	6641.8
80°	124.1	126.4	297.6	340.1	426.3	795.2	578.0	1439.8	2131.6	3604.8	3572.6
82.5°	66.6	72.4	160.9	197.6	213.7	213.7	168.9	635.5	897.5	1097.4	1270.9
85°	35.6	36.8	56.3	67.8	73.5	58.6	43.7	262.0	420.6	525.1	520.5
87.5°	14.9	16.1	17.2	14.9	12.6	8.0	5.7	4.6	4.6	4.6	4.6
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°	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1	3145.1
2.5°	3125.6	3109.5	3101.4	3068.1	3031.3	2992.3	2961.3	2962.4	2986.5	3004.9	3003.8
5°	3161.2	3121.0	3071.6	2993.4	2961.3	2932.5	2898.1	2852.1	2867.0	2885.4	2899.2
7.5°	3180.7	3129.0	3062.4	2946.3	2893.5	2831.4	2799.2	2739.5	2714.2	2732.6	2732.6
10°	3173.8	3121.0	3006.1	2921.0	2817.6	2719.9	2655.6	2640.7	2618.8	2615.4	2614.2
12.5°	3219.8	3141.7	2971.6	2846.3	2752.1	2626.9	2557.9	2544.1	2548.7	2520.0	2524.6
15°	3264.6	3176.1	2941.7	2811.9	2665.9	2518.8	2463.7	2413.1	2436.1	2412.0	2417.7
17.5°	3345.1	3238.2	2925.6	2742.9	2555.6	2428.1	2329.2	2271.8	2269.5	2266.0	2256.8
20°	3437.0	3288.7	2923.3	2683.2	2466.0	2314.3	2173.0	2109.8	2063.8	2079.9	2081.0
22.5°	3603.6	3384.1	2947.5	2628.0	2340.7	2170.7	2025.9	1929.4	1874.2	1883.4	1884.5
25°	3840.3	3584.1	3010.7	2580.9	2236.2	2004.0	1861.6	1739.8	1673.1	1674.3	1692.6
27.5°	4183.9	3823.1	3111.8	2540.7	2124.7	1846.6	1653.6	1534.1	1461.7	1460.5	1473.2
30°	4524.0	4121.9	3256.6	2483.2	1983.4	1635.2	1416.9	1321.5	1276.7	1246.8	1253.7
32.5°	4860.7	4442.5	3445.0	2453.3	1817.9	1385.8	1203.1	1137.6	1081.3	1026.2	1031.9
35°	5242.2	4743.5	3634.6	2393.6	1619.1	1179.0	1051.4	961.8	889.4	860.7	854.9
37.5°	5690.4	5094.0	3765.6	2343.0	1383.5	1039.9	884.8	818.2	771.1	740.0	735.4
40°	6085.7	5388.2	3910.4	2224.7	1157.2	914.7	738.9	703.3	697.5	673.4	669.9
42.5°	6485.6	5749.0	4009.2	2069.5	1002.0	755.0	632.0	652.7	684.9	669.9	669.9
45°	6893.5	6125.9	4028.8	1837.4	853.8	638.9	605.6	644.7	689.5	692.9	691.8
47.5°	7340.5	6460.3	4066.7	1505.3	748.1	609.0	601.0	633.2	690.6	711.3	706.7
50°	7847.3	6822.3	3961.0	1148.0	684.9	612.5	605.6	620.5	682.6	705.6	697.5
52.5°	8340.2	7170.4	3786.3	875.6	644.7	615.9	629.7	618.2	663.0	686.0	695.2
55°	8797.6	7554.2	3416.3	779.1	617.1	611.3	649.2	628.6	644.7	651.5	664.2
57.5°	9260.7	7836.9	3023.3	730.8	602.1	605.6	637.8	628.6	638.9	630.9	620.5
60°	9695.0	8134.5	2516.5	686.0	586.0	602.1	614.8	612.5	619.4	604.4	597.5
62.5°	10063.9	8295.4	1986.8	646.9	572.3	586.0	583.7	595.2	596.4	579.2	574.6
65°	10232.8	8364.4	1516.8	611.3	551.6	565.4	553.9	556.2	557.3	534.3	533.2
67.5°	10061.6	7985.2	1039.9	558.5	529.7	547.0	525.1	521.7	513.7	490.7	491.8
70°	9561.7	7352.0	694.1	482.6	482.6	512.5	499.9	491.8	472.3	450.5	457.3
72.5°	8444.8	6276.4	450.5	389.5	424.0	472.3	466.5	455.0	409.1	347.0	349.3
75°	7223.3	4981.4	299.9	283.8	324.0	409.1	388.4	360.8	342.4	362.0	386.1
77.5°	5624.9	3176.1	167.8	163.2	191.9	287.3	324.0	329.8	466.5	553.9	548.1
80°	2919.9	1613.3	97.7	80.4	113.8	193.1	255.1	347.0	579.2	436.7	422.9
82.5°	1148.0	604.4	59.8	42.5	50.6	79.3	168.9	498.7	439.0	220.6	211.4
85°	393.0	136.7	24.1	21.8	24.1	33.3	66.6	447.0	227.5	140.2	133.3
87.5°	4.6	4.6	5.7	6.9	8.0	8.0	18.4	212.6	105.7	65.5	63.2
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)