

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: P509829

Luminaire Tested: **VERD-M-CA3-150-727-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-727-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 940mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18739 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

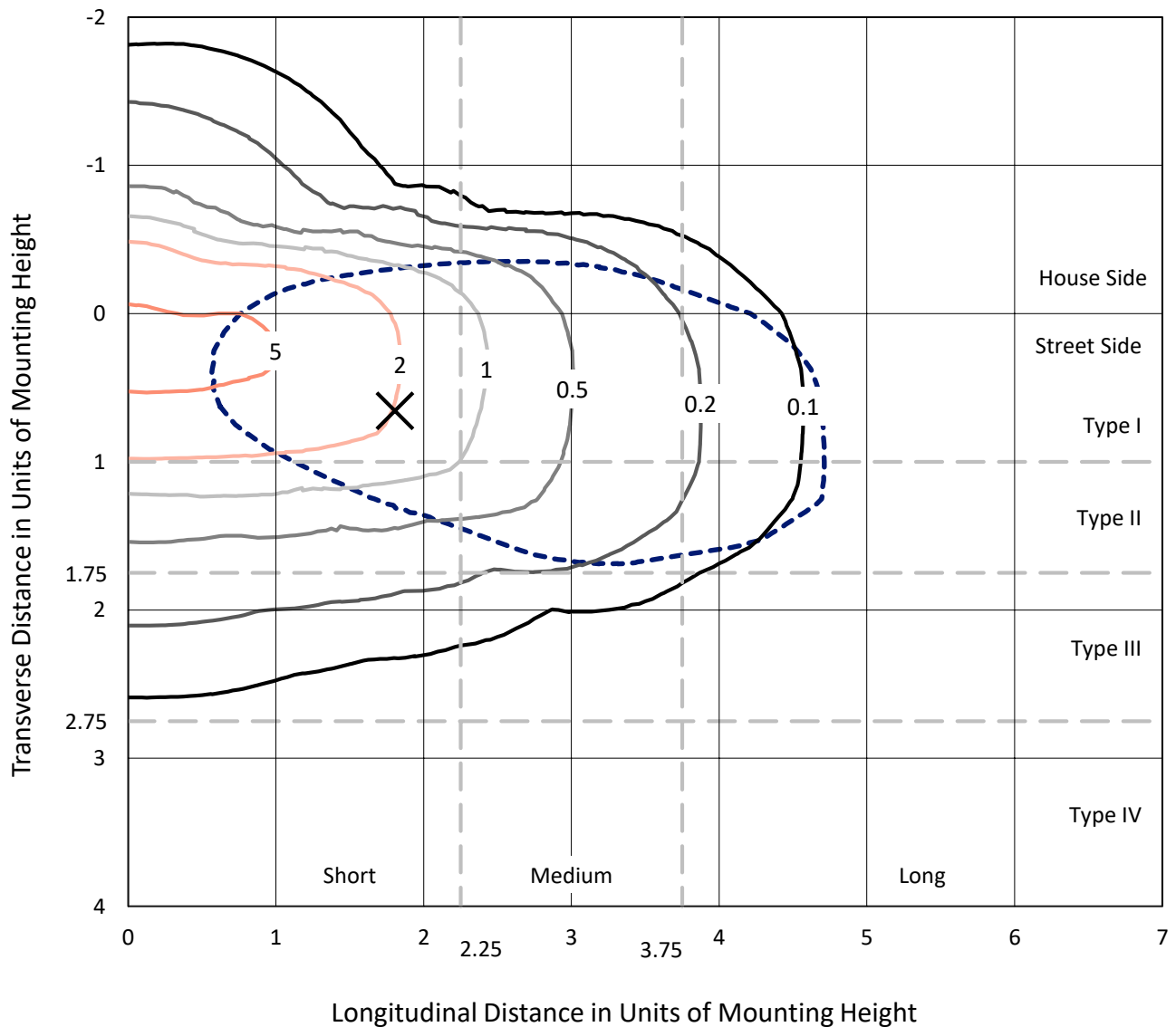
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

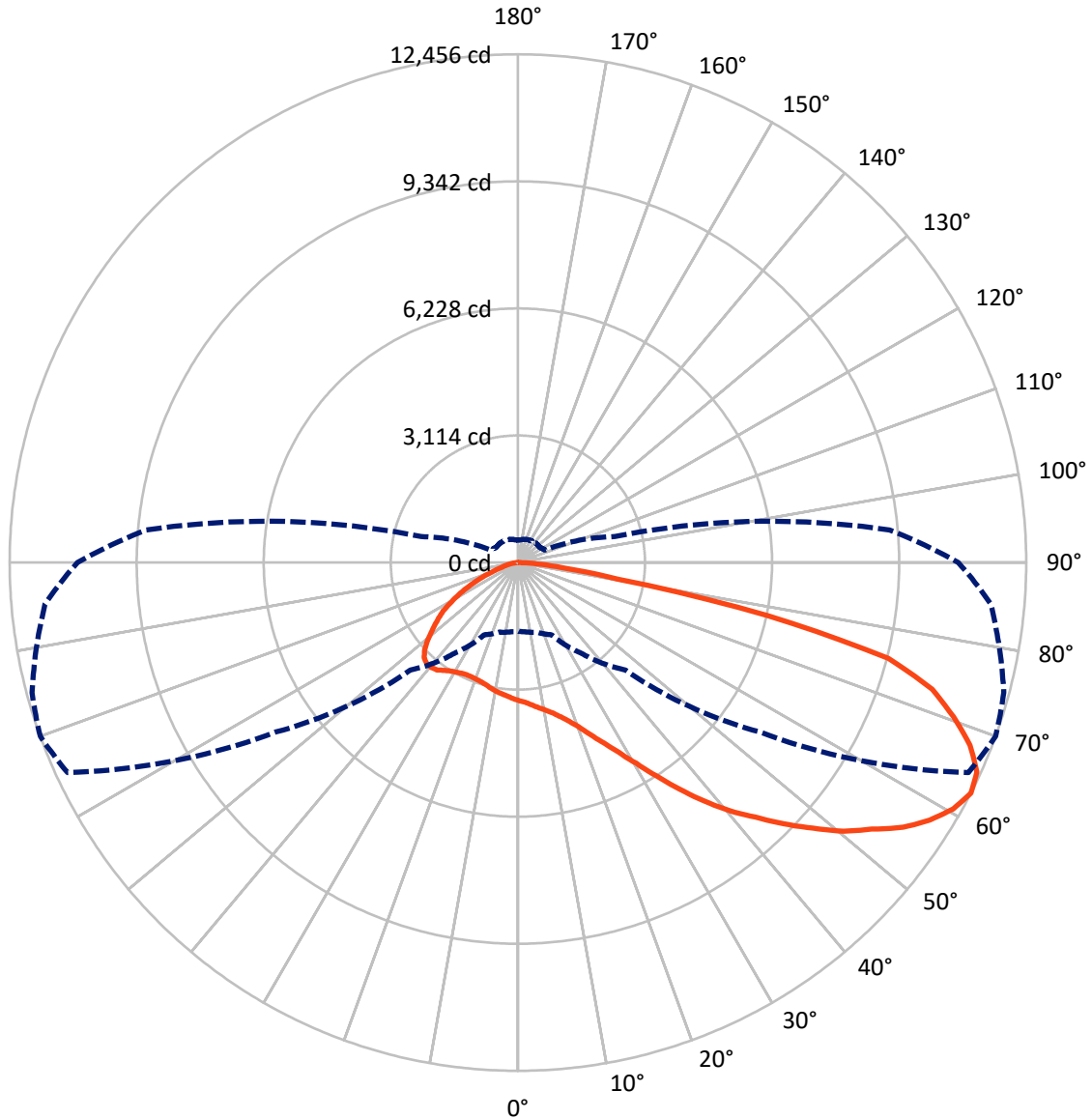
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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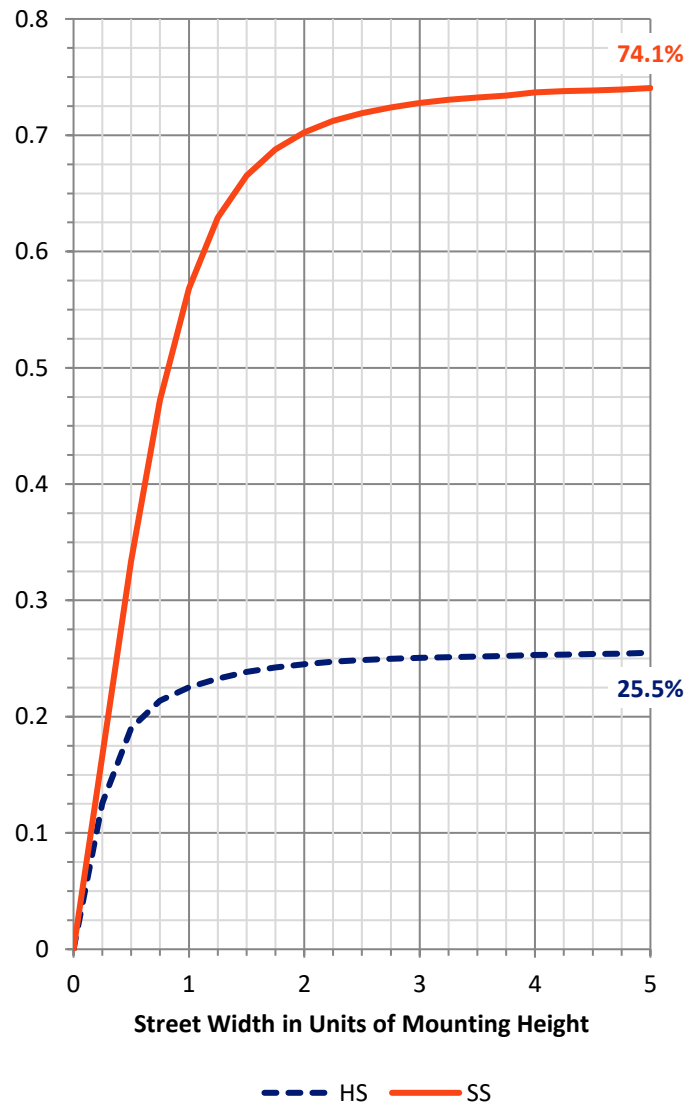
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4851.6	0.0	4851.6
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	13887.4	0.0	13887.4
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	18739.0	0.0	18739.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.9	1.7
10°-20°	986.5	5.3
20°-30°	1674.3	8.9
30°-40°	2422.6	12.9
40°-50°	3179.1	17.0
50°-60°	3714.6	19.8
60°-70°	3727.8	19.9
70°-80°	2375.4	12.7
80°-90°	333.8	1.8
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°	18739.0	100.0
0°-180°	18739.0	100.0



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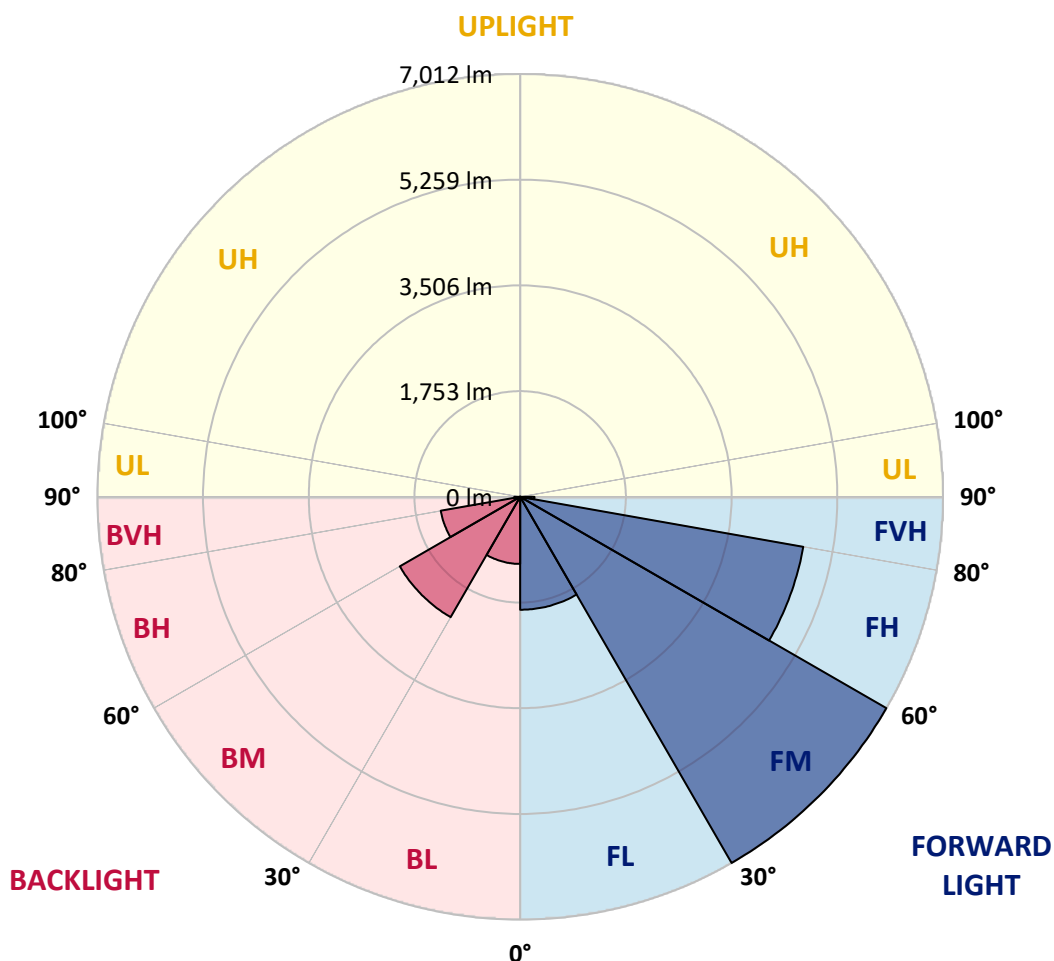
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.0	10.0			
FM (30°-60°)	7011.9	37.4			
FH (60°-80°)	4767.0	25.4			G2/5000
FVH (80°-90°)	235.5	1.3			G3/500
BL (0°-30°)	1112.7	5.9	B3/2500		
BM (30°-60°)	2304.4	12.3	B2/2500		
BH (60°-80°)	1336.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	98.4	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°	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1
2.5°	3511.7	3549.0	3543.9	3521.0	3537.1	3493.1	3477.0	3452.4	3427.0	3418.5	3404.1
5°	3677.7	3726.8	3717.5	3687.0	3686.1	3623.5	3587.9	3541.3	3502.4	3471.9	3427.0
7.5°	3832.6	3889.4	3880.9	3851.3	3849.6	3777.6	3703.9	3631.1	3586.2	3547.3	3465.1
10°	3996.9	4040.1	4032.5	3994.4	3986.7	3916.5	3830.1	3738.6	3672.6	3618.4	3501.5
12.5°	4148.5	4194.2	4197.6	4150.2	4138.3	4063.0	3987.6	3866.5	3781.0	3719.2	3547.3
15°	4289.9	4344.1	4333.9	4286.5	4273.8	4197.6	4123.9	4012.2	3923.2	3836.9	3621.8
17.5°	4403.4	4455.0	4442.3	4421.2	4414.4	4355.1	4294.1	4173.0	4094.3	3983.4	3736.9
20°	4481.3	4529.5	4534.6	4528.7	4567.7	4511.8	4477.9	4392.4	4306.0	4206.1	3894.4
22.5°	4511.8	4569.3	4618.5	4656.6	4737.0	4728.5	4722.6	4673.5	4588.8	4443.2	4102.8
25°	4521.1	4578.7	4654.9	4748.9	4892.8	4944.5	4981.7	4993.6	4901.3	4786.1	4361.9
27.5°	4522.8	4584.6	4662.5	4814.1	5033.4	5189.2	5278.1	5319.6	5268.0	5176.5	4714.2
30°	4487.2	4550.7	4650.6	4853.0	5143.5	5399.2	5546.6	5730.3	5708.3	5631.2	5155.3
32.5°	4384.7	4442.3	4580.4	4846.3	5252.7	5614.3	5843.8	6162.2	6236.7	6186.7	5664.3
35°	4201.0	4271.3	4449.9	4790.4	5312.0	5823.5	6193.5	6688.9	6823.5	6826.9	6288.4
37.5°	4015.5	4068.9	4278.9	4685.4	5345.0	6008.9	6525.5	7216.5	7412.1	7416.3	6807.4
40°	3818.2	3867.3	4098.5	4544.8	5311.1	6154.6	6834.5	7723.7	8004.0	7977.7	7317.2
42.5°	3562.5	3616.7	3846.2	4353.4	5226.5	6267.2	7148.7	8256.3	8525.6	8555.2	7849.0
45°	3344.0	3387.2	3587.9	4054.5	5071.5	6328.2	7443.4	8824.5	9132.8	9101.4	8416.4
47.5°	3074.7	3139.1	3353.3	3811.5	4792.9	6312.9	7725.4	9386.8	9729.8	9701.0	8908.4
50°	2371.9	2446.4	2944.3	3556.6	4437.2	6193.5	7981.1	9924.5	10350.5	10275.1	9429.2
52.5°	2154.3	2175.4	2373.6	3263.6	4086.7	5922.5	8169.1	10603.7	10856.0	10826.4	9956.7
55°	2021.3	2062.0	2152.6	2688.6	3771.7	5482.2	8299.5	11171.0	11455.5	11316.7	10434.3
57.5°	1904.5	1933.3	2040.8	2301.6	3409.2	4875.9	8261.4	11649.5	11903.5	11709.6	10900.9
60°	1780.0	1798.6	1906.2	2100.9	3018.0	4206.1	7874.4	12143.2	12255.8	12077.9	11295.5
62.5°	1683.4	1701.2	1765.6	1952.7	2713.2	3726.8	7241.0	12177.9	12455.6	12326.1	11630.8
65°	1559.8	1571.7	1652.1	1799.5	2430.3	3441.4	6683.0	11851.9	12359.1	12326.9	11759.6
67.5°	1423.5	1437.9	1514.1	1618.2	2068.7	3105.2	5749.8	11675.7	11950.9	11982.3	11518.2
70°	1263.4	1273.6	1352.3	1427.7	1769.8	2725.9	4571.0	11000.8	11321.8	11320.9	10773.0
72.5°	1090.7	1089.8	1167.7	1247.3	1482.8	2289.8	3578.6	9767.0	10616.4	10552.9	9712.8
75°	899.3	912.0	987.4	1050.0	1233.8	1856.2	2492.1	7075.0	9372.4	9459.6	8382.5
77.5°	575.0	583.4	625.8	690.1	862.9	1418.4	1625.9	3931.7	6257.9	7548.4	6598.3
80°	420.0	424.2	461.5	498.8	574.1	863.7	826.5	1708.8	2480.3	3705.6	4047.7
82.5°	286.2	287.1	316.7	325.2	329.4	389.5	392.1	831.6	1181.3	1391.3	1787.6
85°	189.7	157.5	122.8	162.6	166.8	143.1	139.7	375.1	586.0	702.8	662.2
87.5°	42.3	41.5	48.3	49.1	47.4	40.6	33.9	57.6	88.1	87.2	111.8
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°	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1	3382.1
2.5°	3390.6	3386.4	3362.7	3312.7	3278.8	3244.1	3224.6	3212.8	3217.0	3197.5	3189.1
5°	3399.1	3377.9	3311.0	3251.7	3198.4	3138.3	3088.3	3081.5	3091.7	3073.9	3063.7
7.5°	3421.1	3376.2	3290.7	3189.1	3100.1	3043.4	2971.4	2935.0	2932.5	2914.7	2918.1
10°	3433.8	3375.4	3261.0	3138.3	3034.1	2933.3	2856.3	2815.6	2813.1	2787.7	2781.7
12.5°	3468.5	3384.7	3226.3	3076.4	2960.4	2825.8	2744.5	2707.2	2703.0	2667.4	2653.9
15°	3521.9	3405.8	3189.9	3004.5	2854.6	2728.4	2631.0	2581.1	2573.4	2531.9	2517.5
17.5°	3606.5	3466.0	3178.9	2939.3	2762.3	2624.2	2509.9	2455.7	2411.7	2388.8	2369.4
20°	3720.9	3540.5	3191.6	2878.3	2646.3	2487.1	2344.8	2273.7	2243.2	2205.9	2208.5
22.5°	3883.4	3657.3	3213.6	2830.9	2541.3	2340.6	2180.5	2100.9	2045.9	2014.5	2016.2
25°	4112.1	3833.5	3256.8	2786.0	2426.9	2180.5	1991.7	1880.7	1824.9	1804.5	1783.4
27.5°	4400.8	4044.3	3359.3	2730.9	2291.4	1999.3	1790.1	1660.6	1603.8	1573.4	1569.1
30°	4771.7	4321.2	3479.5	2690.3	2149.2	1773.2	1540.3	1437.9	1387.9	1344.7	1324.4
32.5°	5223.9	4712.5	3613.3	2649.6	1973.1	1520.0	1309.2	1230.4	1150.8	1095.8	1098.3
35°	5748.9	5138.4	3812.3	2598.0	1766.4	1283.8	1138.1	1036.5	962.0	925.6	908.6
37.5°	6244.3	5575.4	4046.0	2545.5	1535.3	1130.5	969.6	875.6	818.0	790.1	796.0
40°	6745.6	6025.8	4247.6	2416.8	1276.1	991.6	802.8	749.4	726.6	704.5	707.1
42.5°	7194.4	6384.9	4394.9	2273.7	1094.9	832.4	684.2	696.1	709.6	696.9	693.5
45°	7661.9	6804.9	4524.5	2029.8	943.3	707.1	654.6	687.6	717.2	715.5	711.3
47.5°	8131.0	7194.4	4537.2	1706.3	805.3	664.7	653.7	678.3	717.2	724.0	718.9
50°	8614.5	7602.6	4462.7	1325.2	746.9	669.8	654.6	658.8	702.0	709.6	707.1
52.5°	9150.6	8043.8	4278.9	1007.7	724.0	678.3	657.1	651.2	675.7	689.3	691.8
55°	9643.4	8394.4	3934.2	890.0	707.1	679.1	675.7	656.3	657.1	650.3	667.3
57.5°	10057.5	8728.8	3543.0	825.6	691.8	671.5	684.2	647.8	637.6	609.7	602.9
60°	10486.0	9000.7	2992.6	781.6	674.1	662.2	663.0	633.4	608.0	567.4	555.5
62.5°	10790.0	9144.6	2458.3	729.9	649.5	647.8	635.1	613.1	590.2	554.7	549.6
65°	10878.0	9068.4	1888.4	675.7	617.3	624.1	601.2	570.7	475.9	431.9	431.9
67.5°	10586.7	8599.3	1398.1	613.1	578.4	591.9	547.0	449.7	400.5	374.3	378.5
70°	9788.2	7841.4	910.3	521.6	522.5	533.5	451.3	404.8	358.2	342.1	350.6
72.5°	8721.2	6717.7	600.4	415.8	440.3	421.7	412.4	372.6	331.1	312.5	318.4
75°	7186.8	5304.4	416.6	326.9	285.4	359.9	366.7	313.3	281.1	341.3	354.8
77.5°	5677.8	3687.0	343.8	228.6	210.9	265.9	293.8	290.5	464.9	546.2	540.3
80°	3376.2	2122.9	280.3	158.4	149.0	171.1	231.2	333.6	520.8	391.2	372.6
82.5°	1531.0	965.4	149.0	83.0	97.4	113.5	172.7	414.9	341.3	250.7	236.3
85°	597.8	315.0	59.3	36.4	33.9	42.3	78.8	199.8	137.2	110.9	110.9
87.5°	77.1	56.7	16.9	12.7	11.0	13.5	25.4	110.9	64.4	54.2	52.5
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)