

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: P509903

Luminaire Tested: **VERD-M-CA3-160-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-160-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23798 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

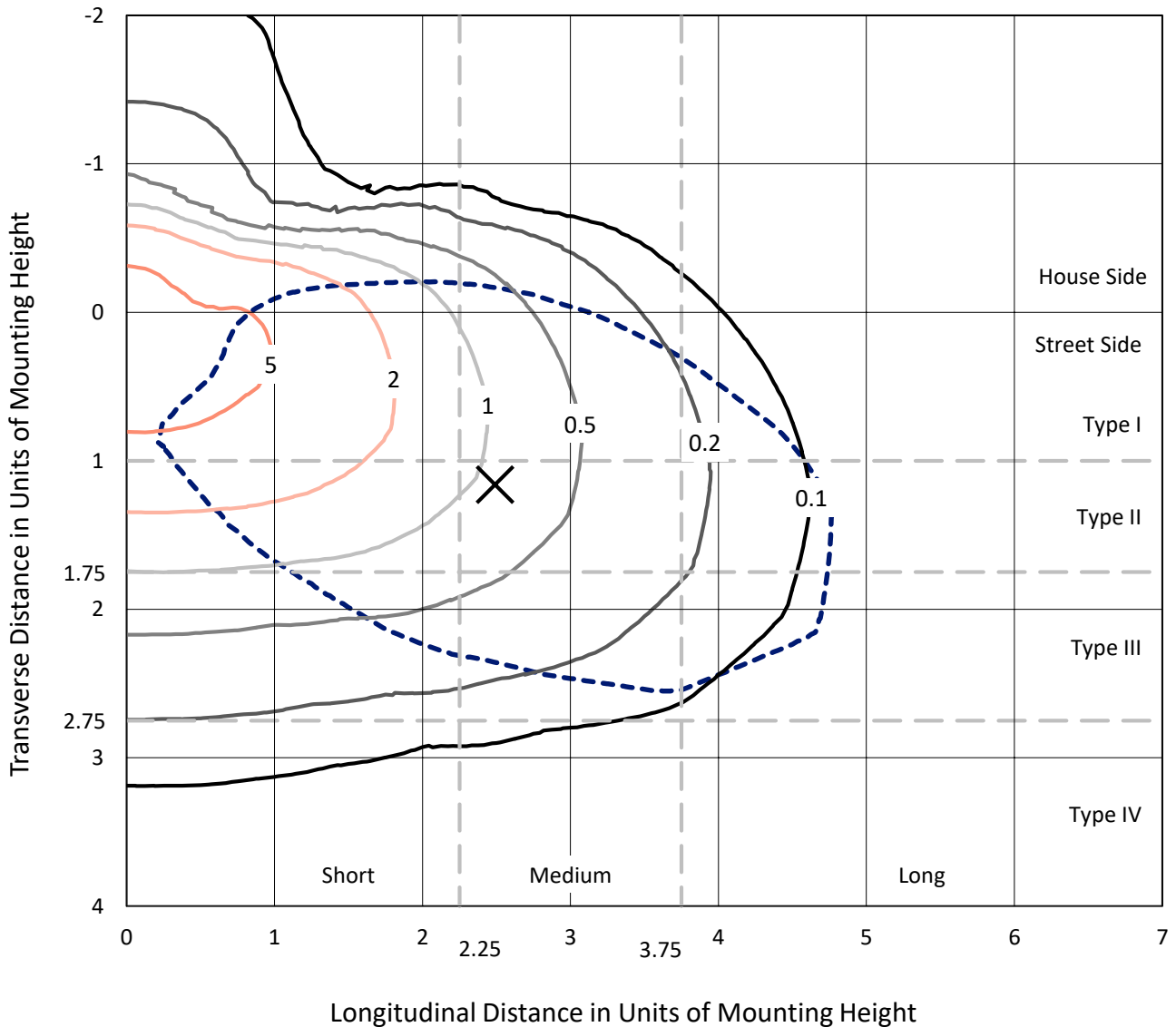
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

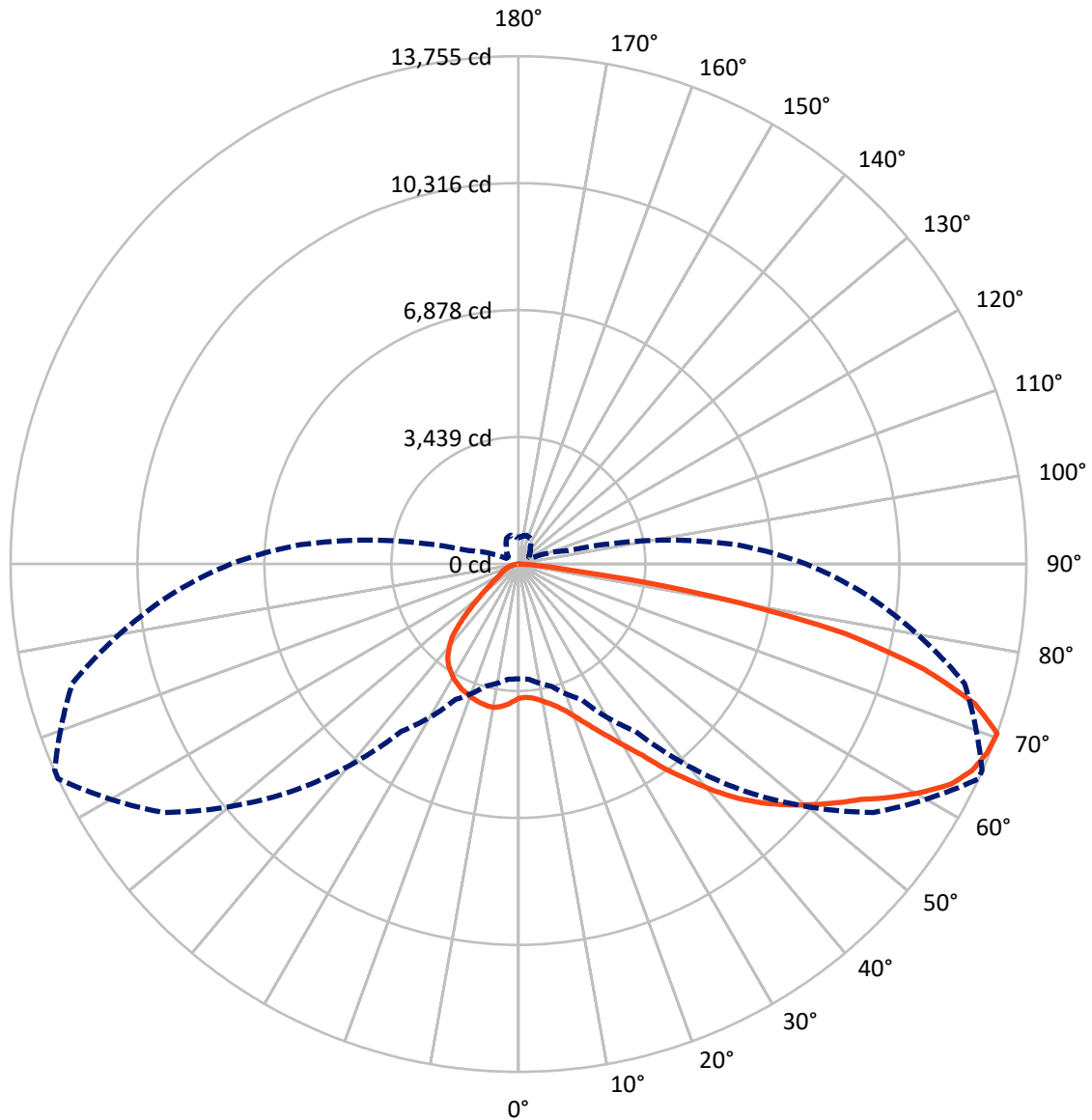
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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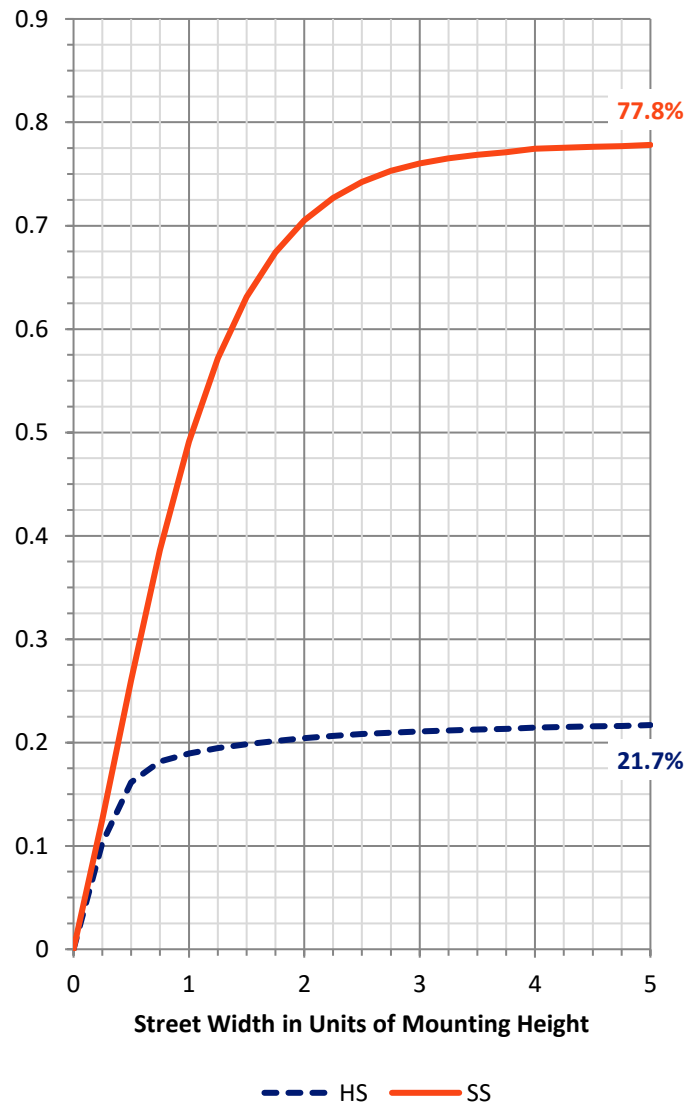
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5249.6	0.0	5249.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18548.4	0.0	18548.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	23798.0	0.0	23798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.5	1.5
10°-20°	1151.9	4.8
20°-30°	1998.4	8.4
30°-40°	2905.6	12.2
40°-50°	3882.0	16.3
50°-60°	4728.6	19.9
60°-70°	5097.5	21.4
70°-80°	3304.9	13.9
80°-90°	364.5	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°	23798.0	100.0
0°-180°	23798.0	100.0



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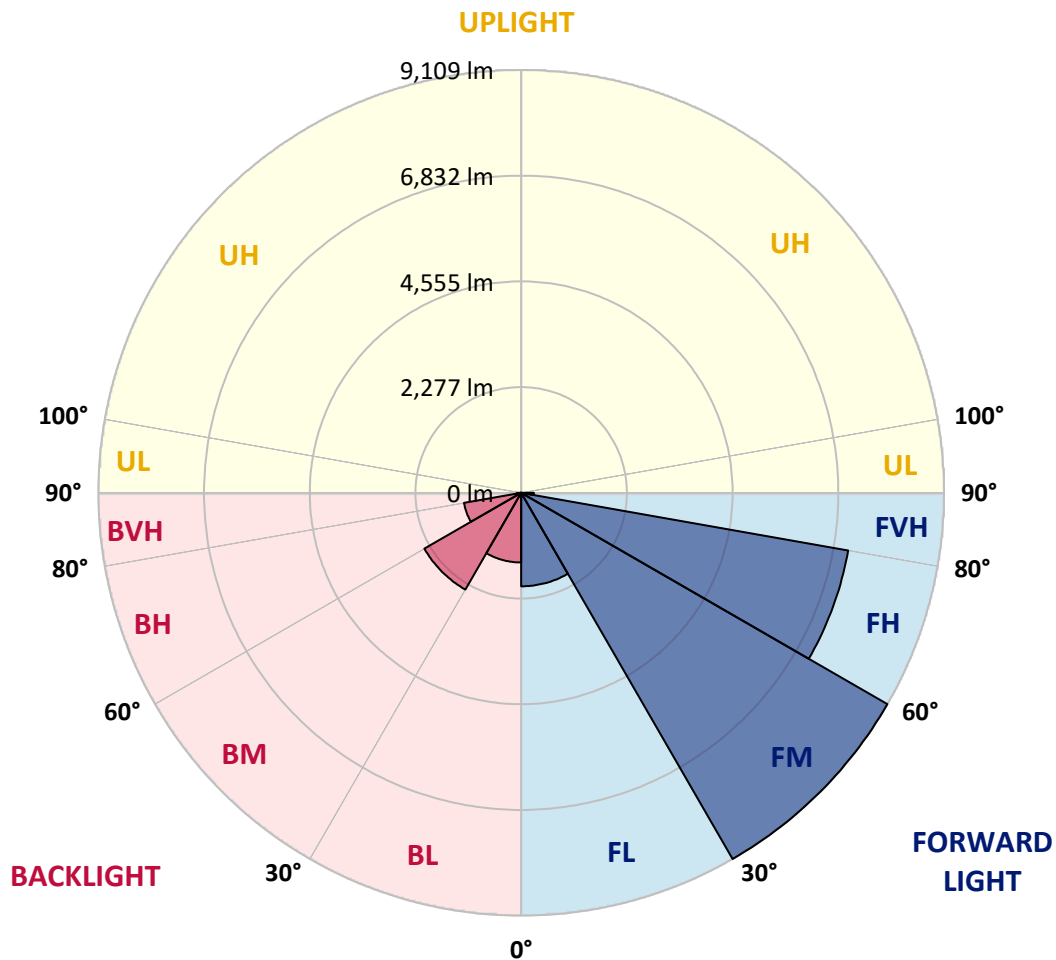
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2014.0	8.5			
FM (30°-60°)	9109.4	38.3			
FH (60°-80°)	7153.1	30.1			G3/7500
FVH (80°-90°)	271.9	1.1			G3/500
BL (0°-30°)	1500.9	6.3	B3/2500		
BM (30°-60°)	2406.8	10.1	B2/2500		
BH (60°-80°)	1249.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	92.6	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3
2.5°	3579.6	3611.8	3594.6	3595.7	3620.4	3600.0	3614.0	3614.0	3612.9	3620.4	3642.9
5°	3667.6	3701.9	3681.6	3668.7	3674.1	3648.3	3642.9	3638.6	3635.4	3644.0	3681.6
7.5°	3796.4	3836.1	3813.5	3801.7	3795.3	3736.3	3725.6	3696.6	3693.4	3700.9	3735.2
10°	3967.0	4020.6	3993.8	3960.5	3938.0	3869.3	3814.6	3788.9	3781.4	3777.1	3812.5
12.5°	4212.7	4259.9	4228.8	4166.6	4136.5	4026.0	3960.5	3887.6	3886.5	3871.5	3898.3
15°	4445.6	4494.9	4455.2	4394.1	4354.4	4205.2	4108.6	4018.5	4007.8	3990.6	3999.2
17.5°	4670.9	4731.0	4703.1	4647.3	4599.0	4432.7	4306.1	4190.2	4178.4	4151.5	4111.8
20°	4951.0	5005.7	4998.2	4947.7	4894.1	4705.2	4566.8	4417.7	4404.8	4356.5	4267.4
22.5°	5231.0	5298.6	5256.8	5248.2	5218.1	5030.4	4837.2	4685.9	4673.0	4609.7	4446.6
25°	5495.0	5555.1	5570.1	5556.1	5559.4	5373.7	5181.7	4991.7	4978.9	4893.0	4656.9
27.5°	5807.2	5864.1	5868.4	5871.6	5909.2	5754.7	5529.3	5334.0	5325.4	5228.9	4929.5
30°	6046.5	6140.9	6160.3	6178.5	6197.8	6115.2	5910.2	5727.8	5710.7	5605.5	5236.4
32.5°	6265.4	6336.2	6404.9	6442.5	6529.4	6455.3	6286.9	6174.2	6175.3	6125.9	5725.7
35°	6435.0	6513.3	6600.2	6737.5	6864.2	6833.0	6780.5	6786.9	6788.0	6809.4	6385.6
37.5°	6597.0	6667.8	6777.2	6941.4	7164.6	7205.4	7240.8	7374.9	7422.1	7523.0	6995.1
40°	6694.6	6769.7	6911.4	7138.9	7428.6	7575.6	7682.9	8027.3	8108.9	8110.0	7466.1
42.5°	6551.9	6634.5	6887.8	7292.3	7666.8	7941.5	8223.7	8658.3	8717.3	8585.3	7868.5
45°	6424.2	6500.4	6773.0	7315.9	7853.5	8332.1	8724.8	9228.0	9271.0	9004.9	8239.8
47.5°	6300.8	6360.9	6676.4	7266.6	8044.5	8723.7	9151.9	9743.1	9774.2	9464.1	8602.5
50°	6130.2	6202.1	6536.9	7208.6	8159.3	9059.6	9570.3	10251.7	10247.4	9877.2	8930.8
52.5°	5943.5	6014.3	6373.8	7102.4	8234.4	9320.3	10046.8	10749.6	10752.8	10351.5	9255.9
55°	5708.5	5795.4	6174.2	6958.6	8252.7	9525.3	10459.9	11260.4	11312.9	10835.4	9569.3
57.5°	5427.4	5514.3	5928.5	6748.3	8144.3	9697.0	10900.9	11912.8	11940.7	11330.1	9803.2
60°	5100.1	5205.3	5601.2	6467.1	7937.2	9896.5	11435.3	12552.3	12561.9	11772.2	9998.5
62.5°	4721.3	4796.4	5212.8	6059.4	7606.7	9975.9	11877.4	13139.2	13141.4	12105.9	10086.5
65°	4311.4	4340.4	4689.1	5504.6	7124.9	9846.1	12046.9	13496.6	13486.9	12398.8	10042.5
67.5°	3823.2	3809.3	4181.6	4819.0	6515.4	9413.7	11964.3	13680.0	13709.0	12624.2	9900.8
70°	3108.6	3129.0	3425.1	4051.8	5531.5	8719.4	11736.8	13755.2	13747.6	12511.5	9444.8
72.5°	2359.6	2396.1	2610.7	3080.7	4293.2	7333.1	10762.5	12924.6	12939.7	11717.5	8623.9
75°	1459.3	1564.5	1745.8	2032.3	2690.1	5253.5	9160.4	11321.5	11397.7	10338.6	7101.3
77.5°	639.5	664.2	755.4	979.7	1406.7	2637.5	6771.9	9041.3	9266.7	8361.0	5122.6
80°	395.9	395.9	421.7	491.4	627.7	980.7	2713.7	5398.4	5169.9	4782.5	2259.8
82.5°	329.4	329.4	342.3	354.1	321.9	415.3	907.8	1513.0	1621.3	1312.3	694.2
85°	179.2	183.5	184.6	187.8	184.6	224.3	357.3	447.5	452.8	409.9	246.8
87.5°	65.5	69.7	67.6	63.3	56.9	53.7	68.7	69.7	71.9	66.5	36.5
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°	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3	3633.3
2.5°	3658.0	3673.0	3712.7	3715.9	3730.9	3736.3	3749.2	3767.4	3799.6	3783.5	3765.3
5°	3699.8	3719.1	3782.4	3814.6	3856.5	3881.1	3921.9	3942.3	3991.7	3975.6	3973.4
7.5°	3763.1	3803.9	3860.8	3891.9	3946.6	3962.7	3992.7	3992.7	4033.5	4013.1	4007.8
10°	3849.0	3875.8	3935.9	3938.0	3969.1	3969.1	4004.5	3982.0	4021.7	3998.1	3997.0
12.5°	3917.6	3932.7	3955.2	3936.9	3953.0	3934.8	3953.0	3926.2	3950.9	3920.8	3914.4
15°	3994.9	3974.5	3952.0	3909.0	3895.1	3866.1	3851.1	3823.2	3825.3	3791.0	3785.6
17.5°	4081.8	4029.2	3963.8	3870.4	3818.9	3744.9	3713.8	3674.1	3651.5	3620.4	3634.3
20°	4187.0	4108.6	3972.4	3827.5	3718.0	3605.4	3532.4	3468.0	3462.7	3434.8	3419.7
22.5°	4323.2	4197.7	4009.9	3766.3	3590.4	3429.4	3321.0	3213.7	3203.0	3146.1	3124.7
25°	4491.7	4315.7	4029.2	3719.1	3441.2	3220.2	3049.5	2900.4	2828.5	2768.4	2754.5
27.5°	4718.1	4489.6	4067.9	3634.3	3265.2	2960.5	2715.8	2518.4	2432.6	2402.5	2371.4
30°	4983.1	4702.0	4139.7	3563.5	3057.1	2628.9	2330.6	2095.6	2002.3	1955.1	1940.0
32.5°	5373.7	4970.3	4206.3	3446.6	2804.9	2264.1	1875.7	1616.0	1559.1	1550.5	1570.9
35°	5942.4	5474.6	4302.8	3338.2	2508.7	1858.5	1429.3	1259.7	1247.9	1250.1	1250.1
37.5°	6534.7	5955.3	4589.3	3178.3	2146.1	1399.2	1088.1	995.8	1000.1	1000.1	999.0
40°	6921.0	6341.6	4797.5	2951.9	1695.4	1003.3	806.9	737.2	767.2	808.0	829.5
42.5°	7347.0	6692.5	4941.3	2691.2	1179.3	709.3	586.9	611.6	699.6	761.9	770.4
45°	7709.7	6990.8	4957.4	2285.6	759.7	538.7	535.4	606.3	708.2	775.8	781.2
47.5°	8020.9	7262.3	4856.5	1822.0	553.7	503.3	535.4	624.5	716.8	758.6	762.9
50°	8322.4	7477.9	4619.4	1400.3	504.3	490.4	541.9	627.7	685.7	714.6	710.3
52.5°	8590.7	7674.3	4276.0	1092.3	485.0	481.8	547.2	624.5	661.0	658.8	655.6
55°	8794.5	7732.2	4007.8	852.0	468.9	476.4	550.5	627.7	654.5	635.2	630.9
57.5°	8899.7	7660.4	3782.4	677.1	451.7	471.1	559.0	626.6	673.9	710.3	708.2
60°	8897.6	7578.8	3504.5	583.7	434.6	466.8	573.0	680.3	850.9	885.2	886.3
62.5°	8863.2	7439.3	3123.6	527.9	415.3	468.9	582.7	772.6	968.9	941.0	918.5
65°	8749.5	7177.5	2612.8	467.8	390.6	471.1	578.4	835.9	888.5	788.7	774.7
67.5°	8432.9	6671.0	2051.6	418.5	368.0	459.3	585.9	776.9	816.6	753.3	732.9
70°	7790.2	5957.5	1390.6	360.5	342.3	442.1	568.7	764.0	805.8	741.5	711.4
72.5°	6771.9	4781.4	813.4	310.1	304.7	406.7	560.1	772.6	818.7	746.8	708.2
75°	5270.7	3352.1	470.0	251.1	254.3	375.6	514.0	728.6	811.2	755.4	705.0
77.5°	3402.6	1627.8	331.6	200.7	198.5	296.2	417.4	637.4	781.2	762.9	721.1
80°	1217.9	594.5	232.8	149.2	144.9	200.7	320.8	512.9	661.0	684.6	684.6
82.5°	437.8	298.3	149.2	91.2	90.1	127.7	239.3	389.5	479.6	540.8	555.8
85°	183.5	129.8	73.0	46.1	37.6	49.4	123.4	241.4	325.1	349.8	380.9
87.5°	26.8	23.6	19.3	15.0	12.9	12.9	16.1	69.7	115.9	166.3	206.0
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)