

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: P509927

Luminaire Tested: **VERD-M-CA3-170-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509927
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-CA3-170-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1060mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20735 lumens
Efficiency: N/A
Efficacy: 120.0 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

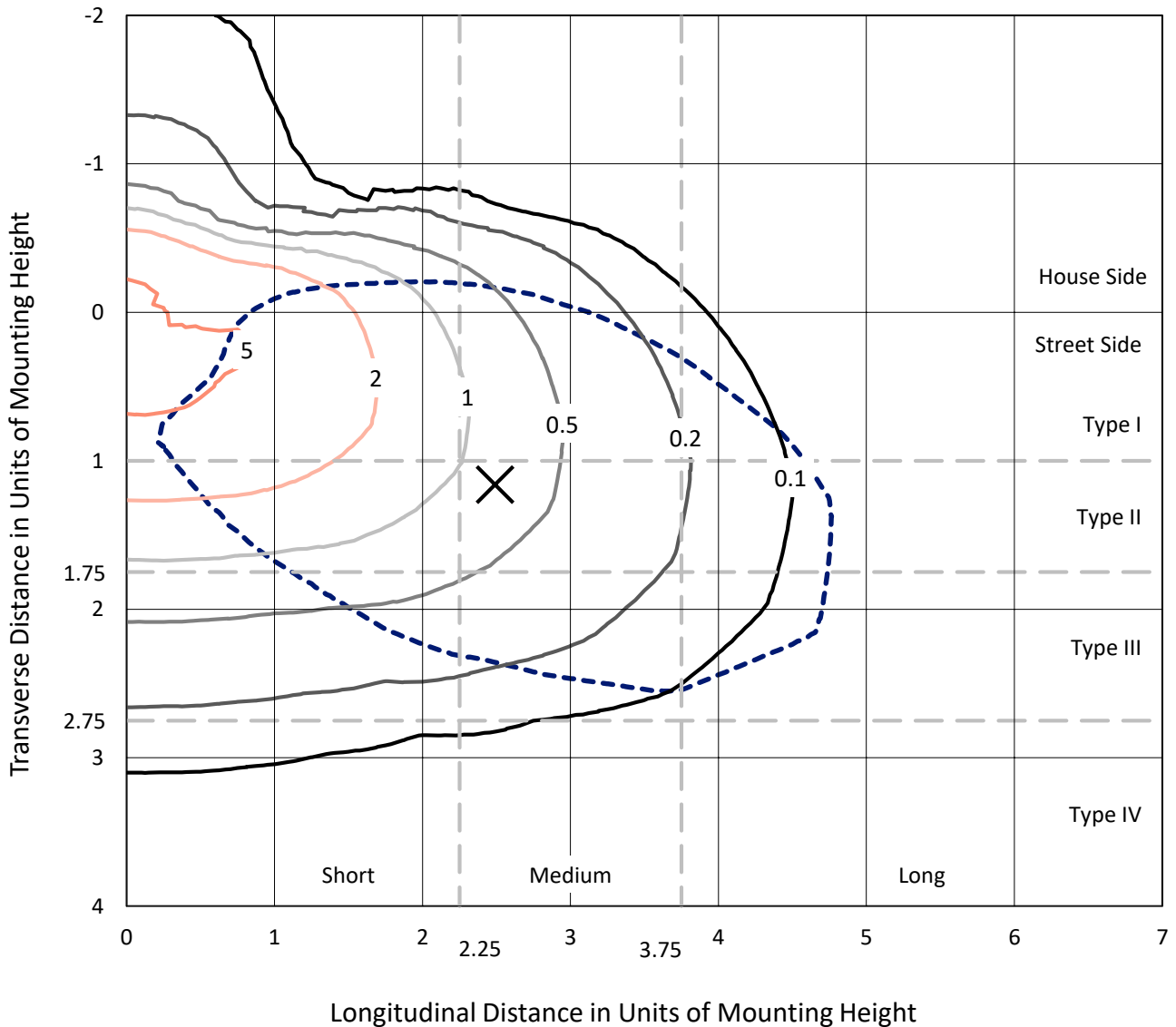
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

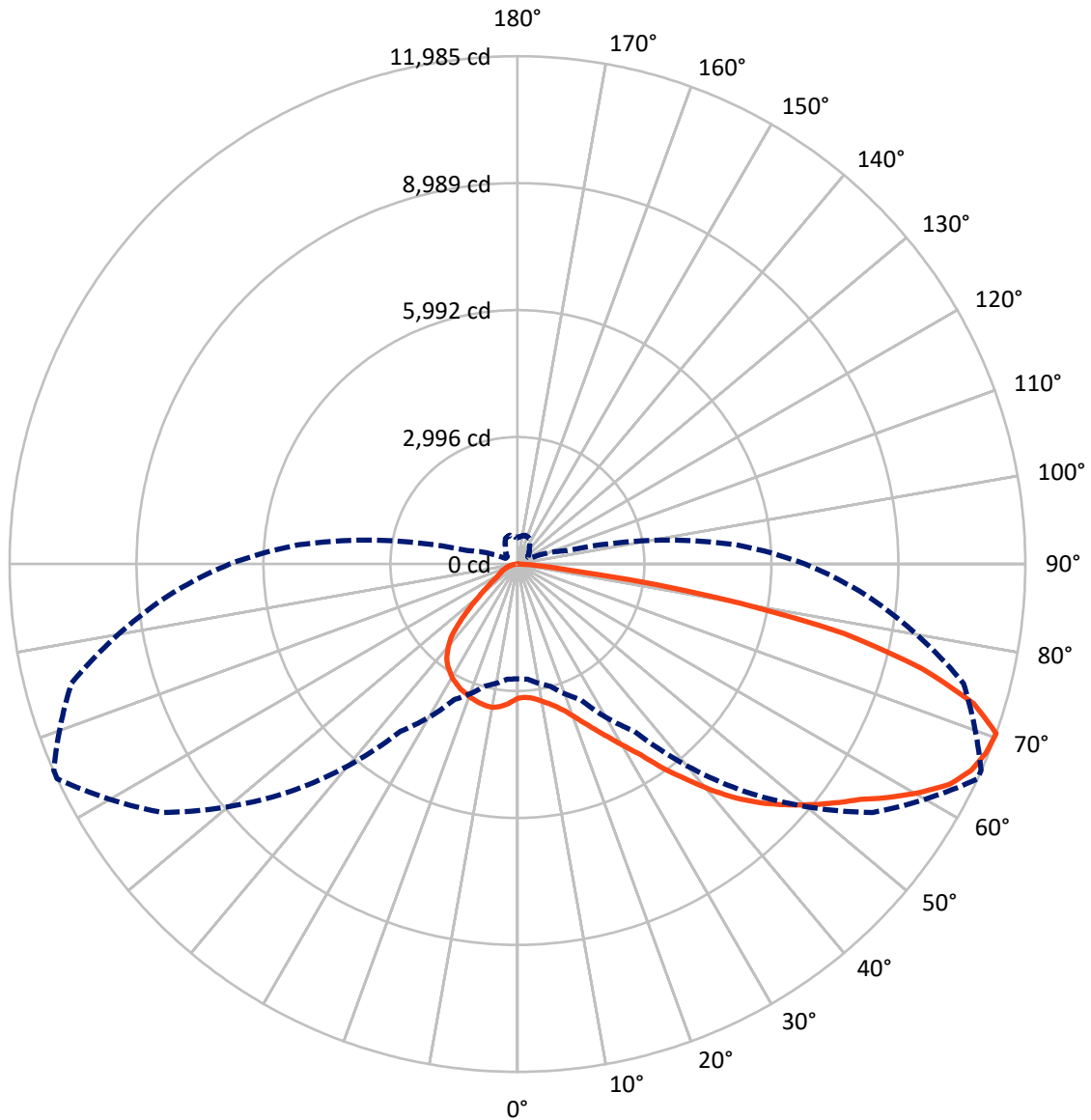
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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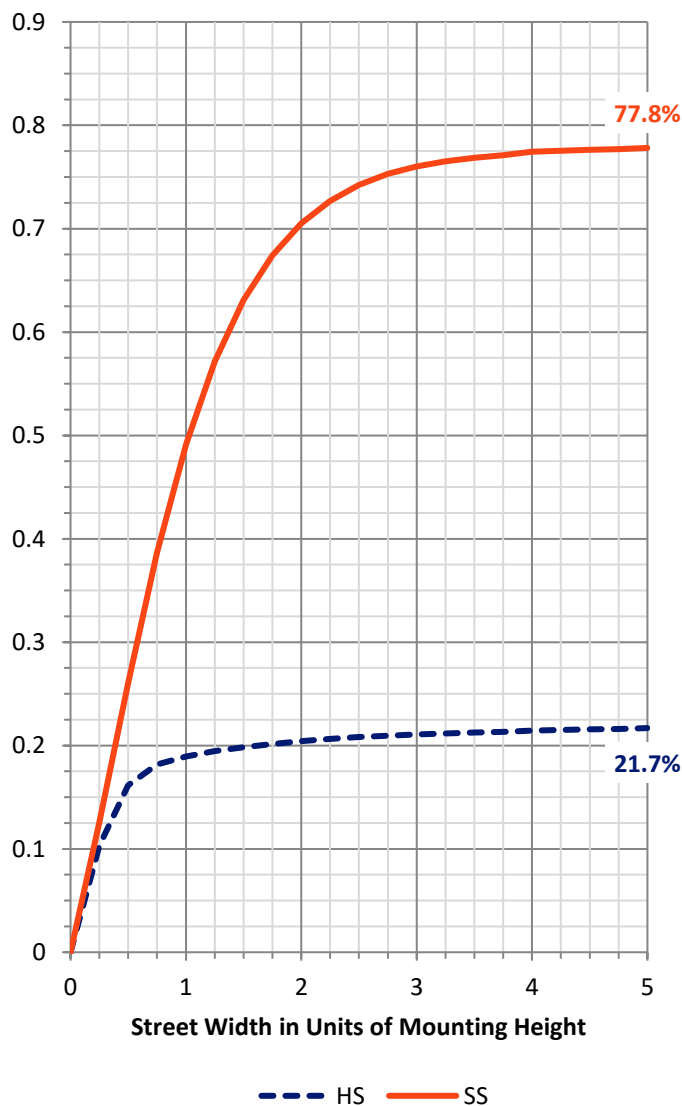
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4573.9	0.0	4573.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16161.1	0.0	16161.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	20735.0	0.0	20735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	1.5
10°-20°	1003.7	4.8
20°-30°	1741.2	8.4
30°-40°	2531.7	12.2
40°-50°	3382.3	16.3
50°-60°	4120.0	19.9
60°-70°	4441.4	21.4
70°-80°	2879.5	13.9
80°-90°	317.6	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°	20735.0	100.0
0°-180°	20735.0	100.0

Coefficient of Utilization



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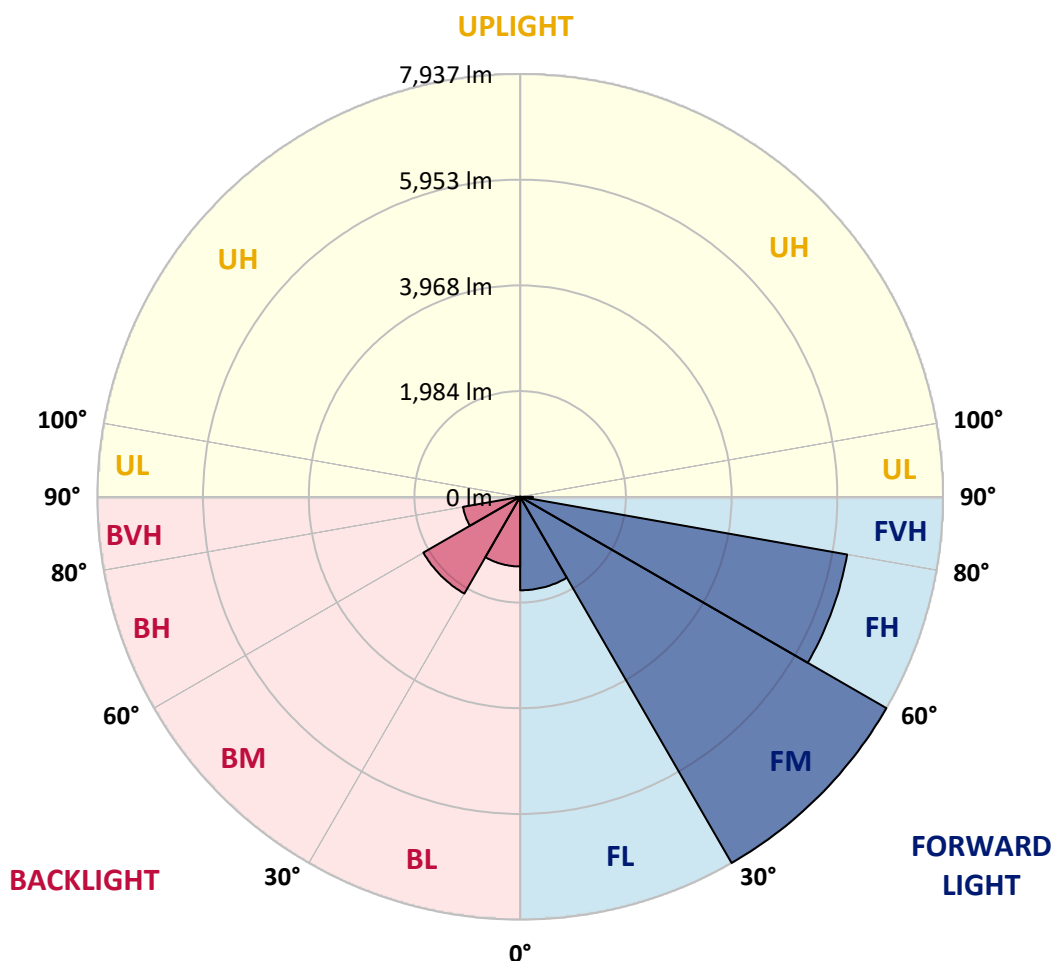
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.8	8.5			
FM	(30°-60°)	7937.0	38.3			
FH	(60°-80°)	6232.4	30.1			G3/7500
FVH	(80°-90°)	236.9	1.1			G3/500
BL	(0°-30°)	1307.7	6.3	B3/2500		
BM	(30°-60°)	2097.0	10.1	B2/2500		
BH	(60°-80°)	1088.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	80.7	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°	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6
2.5°	3118.9	3146.9	3132.0	3132.9	3154.4	3136.7	3148.8	3148.8	3147.9	3154.4	3174.1
5°	3195.6	3225.5	3207.7	3196.5	3201.2	3178.7	3174.1	3170.3	3167.5	3175.0	3207.7
7.5°	3307.8	3342.3	3322.7	3312.4	3306.8	3255.4	3246.0	3220.8	3218.0	3224.5	3254.5
10°	3456.4	3503.1	3479.8	3450.8	3431.2	3371.3	3323.6	3301.2	3294.7	3290.9	3321.8
12.5°	3670.5	3711.6	3684.5	3630.3	3604.1	3507.8	3450.8	3387.2	3386.3	3373.2	3396.6
15°	3873.4	3916.4	3881.8	3828.5	3793.9	3664.0	3579.8	3501.3	3491.9	3477.0	3484.5
17.5°	4069.7	4122.1	4097.8	4049.1	4007.1	3862.2	3751.8	3650.9	3640.6	3617.2	3582.6
20°	4313.7	4361.4	4354.9	4310.9	4264.2	4099.6	3979.0	3849.1	3837.9	3795.8	3718.2
22.5°	4557.7	4616.6	4580.2	4572.7	4546.5	4382.9	4214.6	4082.8	4071.6	4016.4	3874.3
25°	4787.7	4840.1	4853.2	4841.0	4843.8	4682.1	4514.7	4349.3	4338.0	4263.2	4057.6
27.5°	5059.8	5109.3	5113.1	5115.9	5148.6	5014.0	4817.6	4647.5	4640.0	4555.9	4295.0
30°	5268.3	5350.6	5367.4	5383.3	5400.1	5328.1	5149.5	4990.6	4975.6	4884.0	4562.4
32.5°	5459.0	5520.7	5580.5	5613.3	5689.0	5624.5	5477.7	5379.5	5380.5	5337.5	4988.7
35°	5606.7	5675.0	5750.7	5870.4	5980.7	5953.6	5907.8	5913.4	5914.3	5933.0	5563.7
37.5°	5747.9	5809.6	5905.0	6048.0	6242.5	6278.0	6308.8	6425.7	6466.8	6554.7	6094.7
40°	5833.0	5898.4	6021.8	6220.0	6472.5	6600.5	6694.0	6994.1	7065.2	7066.1	6505.2
42.5°	5708.6	5780.6	6001.3	6353.7	6680.0	6919.4	7165.2	7543.9	7595.3	7480.3	6855.8
45°	5597.4	5663.8	5901.2	6374.3	6842.7	7259.7	7601.8	8040.3	8077.7	7845.9	7179.3
47.5°	5489.9	5542.2	5817.1	6331.3	7009.1	7600.9	7973.9	8489.1	8516.2	8246.0	7495.3
50°	5341.2	5403.8	5695.5	6280.8	7109.1	7893.5	8338.6	8932.2	8928.5	8605.9	7781.3
52.5°	5178.5	5240.2	5553.4	6188.2	7174.6	8120.7	8753.7	9366.0	9368.8	9019.2	8064.6
55°	4973.8	5049.5	5379.5	6063.0	7190.5	8299.3	9113.6	9811.1	9856.9	9440.8	8337.6
57.5°	4728.8	4804.6	5165.4	5879.7	7096.1	8448.9	9497.9	10379.5	10403.8	9871.8	8541.4
60°	4443.7	4535.3	4880.3	5634.8	6915.6	8622.8	9963.5	10936.7	10945.1	10257.0	8711.6
62.5°	4113.7	4179.1	4541.8	5279.5	6627.7	8692.0	10348.6	11448.1	11450.0	10547.8	8788.3
65°	3756.5	3781.8	4085.6	4796.1	6207.9	8578.8	10496.4	11759.4	11751.0	10803.0	8749.9
67.5°	3331.1	3319.0	3643.4	4198.7	5676.8	8202.1	10424.4	11919.3	11944.6	10999.3	8626.5
70°	2708.5	2726.2	2984.3	3530.3	4819.5	7597.2	10226.2	11984.8	11978.2	10901.2	8229.2
72.5°	2055.9	2087.7	2274.7	2684.2	3740.6	6389.2	9377.3	11261.1	11274.2	10209.3	7514.0
75°	1271.5	1363.1	1521.1	1770.7	2343.8	4577.4	7981.4	9864.4	9930.7	9008.0	6187.3
77.5°	557.2	578.7	658.2	853.6	1225.7	2298.0	5900.3	7877.6	8074.0	7284.9	4463.3
80°	345.0	345.0	367.4	428.2	546.9	854.5	2364.4	4703.6	4504.4	4166.9	1968.9
82.5°	287.0	287.0	298.2	308.5	280.5	361.8	790.9	1318.2	1412.7	1143.4	604.9
85°	156.1	159.9	160.8	163.6	160.8	195.4	311.3	389.9	394.5	357.1	215.0
87.5°	57.0	60.8	58.9	55.2	49.6	46.7	59.8	60.8	62.6	58.0	31.8
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°	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6
2.5°	3187.1	3200.2	3234.8	3237.6	3250.7	3255.4	3266.6	3282.5	3310.6	3296.5	3280.6
5°	3223.6	3240.4	3295.6	3323.6	3360.1	3381.6	3417.1	3434.9	3477.9	3463.9	3462.0
7.5°	3278.8	3314.3	3363.8	3391.0	3438.6	3452.7	3478.8	3478.8	3514.4	3496.6	3491.9
10°	3353.6	3376.9	3429.3	3431.2	3458.3	3458.3	3489.1	3469.5	3504.1	3483.5	3482.6
12.5°	3413.4	3426.5	3446.1	3430.2	3444.2	3428.4	3444.2	3420.9	3442.4	3416.2	3410.6
15°	3480.7	3462.9	3443.3	3405.9	3393.8	3368.5	3355.4	3331.1	3333.0	3303.1	3298.4
17.5°	3556.4	3510.6	3453.6	3372.3	3327.4	3262.9	3235.8	3201.2	3181.5	3154.4	3166.6
20°	3648.1	3579.8	3461.1	3334.9	3239.5	3141.3	3077.8	3021.7	3017.0	2992.7	2979.6
22.5°	3766.8	3657.4	3493.8	3281.6	3128.2	2988.0	2893.6	2800.1	2790.7	2741.2	2722.5
25°	3913.6	3760.3	3510.6	3240.4	2998.3	2805.7	2657.0	2527.1	2464.5	2412.1	2399.9
27.5°	4110.8	3911.7	3544.3	3166.6	2845.0	2579.4	2366.3	2194.3	2119.5	2093.3	2066.2
30°	4341.8	4096.8	3606.9	3104.9	2663.6	2290.6	2030.6	1825.9	1744.6	1703.4	1690.3
32.5°	4682.1	4330.6	3664.9	3003.0	2443.9	1972.7	1634.2	1408.0	1358.4	1351.0	1368.7
35°	5177.6	4770.0	3749.0	2908.5	2185.8	1619.3	1245.3	1097.6	1087.3	1089.2	1089.2
37.5°	5693.7	5188.8	3998.7	2769.2	1869.8	1219.1	948.0	867.6	871.3	871.3	870.4
40°	6030.2	5525.4	4180.0	2572.0	1477.2	874.2	703.1	642.3	668.5	704.0	722.7
42.5°	6401.4	5831.1	4305.3	2344.8	1027.5	618.0	511.4	532.9	609.6	663.8	671.3
45°	6717.4	6091.0	4319.3	1991.4	661.9	469.3	466.5	528.2	617.0	675.9	680.6
47.5°	6988.5	6327.5	4231.5	1587.5	482.4	438.5	466.5	544.1	624.5	661.0	664.7
50°	7251.2	6515.5	4024.8	1220.1	439.4	427.3	472.1	546.9	597.4	622.7	618.9
52.5°	7485.0	6686.6	3725.7	951.7	422.6	419.8	476.8	544.1	575.9	574.0	571.2
55°	7662.6	6737.0	3491.9	742.3	408.6	415.1	479.6	546.9	570.3	553.5	549.7
57.5°	7754.2	6674.4	3295.6	589.9	393.6	410.4	487.1	546.0	587.1	618.9	617.0
60°	7752.4	6603.3	3053.5	508.6	378.6	406.7	499.2	592.7	741.4	771.3	772.2
62.5°	7722.4	6481.8	2721.6	460.0	361.8	408.6	507.7	673.1	844.2	819.9	800.3
65°	7623.3	6253.7	2276.5	407.6	340.3	410.4	503.9	728.3	774.1	687.2	675.0
67.5°	7347.5	5812.4	1787.6	364.6	320.7	400.1	510.5	676.9	711.5	656.3	638.6
70°	6787.5	5190.7	1211.7	314.1	298.2	385.2	495.5	665.7	702.1	646.0	619.9
72.5°	5900.3	4166.0	708.7	270.2	265.5	354.3	488.0	673.1	713.3	650.7	617.0
75°	4592.3	2920.7	409.5	218.8	221.6	327.2	447.8	634.8	706.8	658.2	614.2
77.5°	2964.6	1418.3	288.9	174.8	173.0	258.0	363.7	555.3	680.6	664.7	628.3
80°	1061.1	517.9	202.9	130.0	126.2	174.8	279.5	446.9	575.9	596.5	596.5
82.5°	381.4	259.9	130.0	79.5	78.5	111.3	208.5	339.4	417.9	471.2	484.3
85°	159.9	113.1	63.6	40.2	32.7	43.0	107.5	210.4	283.3	304.8	331.9
87.5°	23.4	20.6	16.8	13.1	11.2	11.2	14.0	60.8	101.0	144.9	179.5
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)