

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: P509847

Luminaire Tested: **VERD-M-CA3-150-740-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509847
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-CA3-150-740-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22178 lumens
Efficiency: N/A
Efficacy: 145.0 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): 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

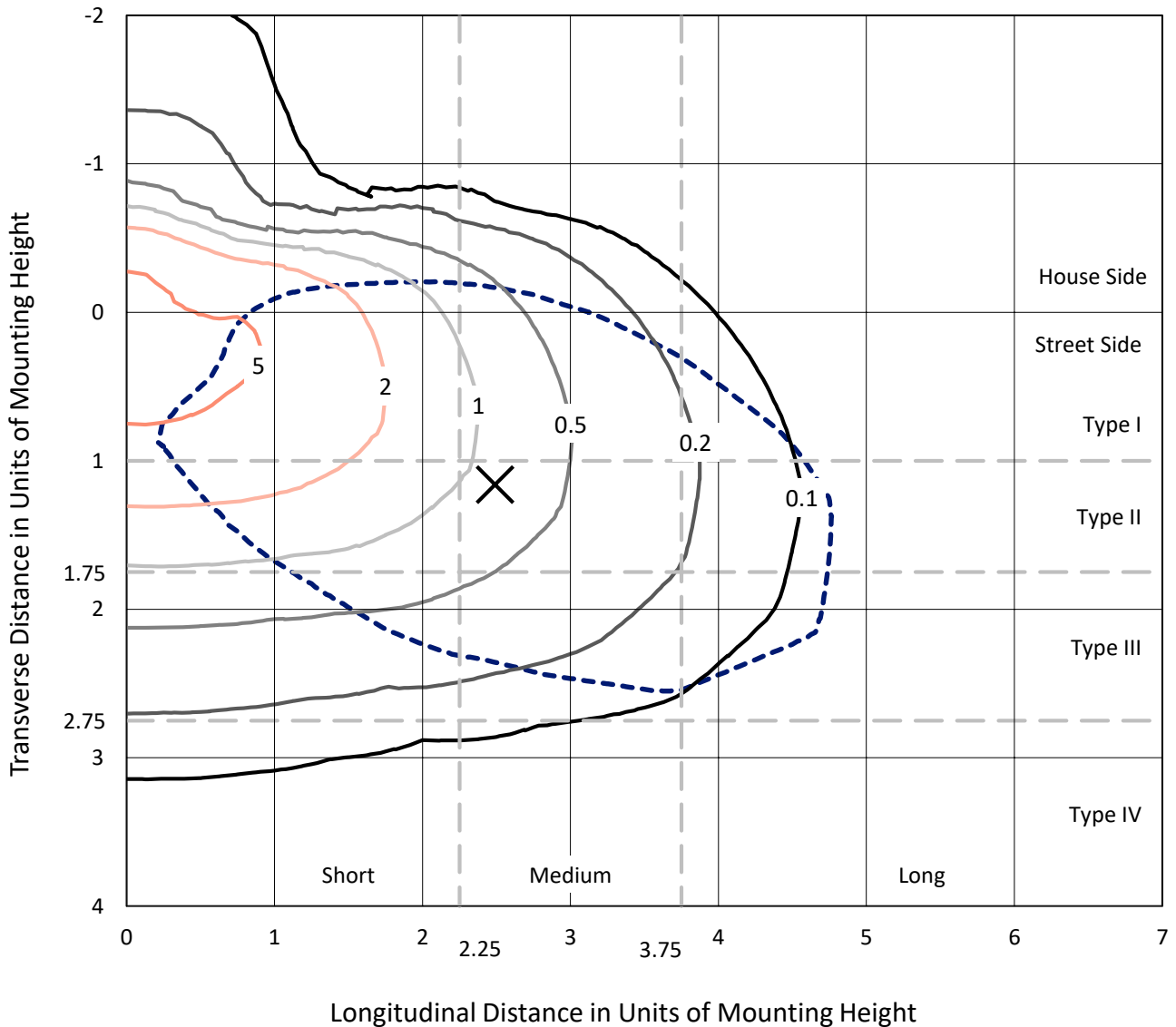


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Iso-Footcandle Lines of Horizontal Illumination

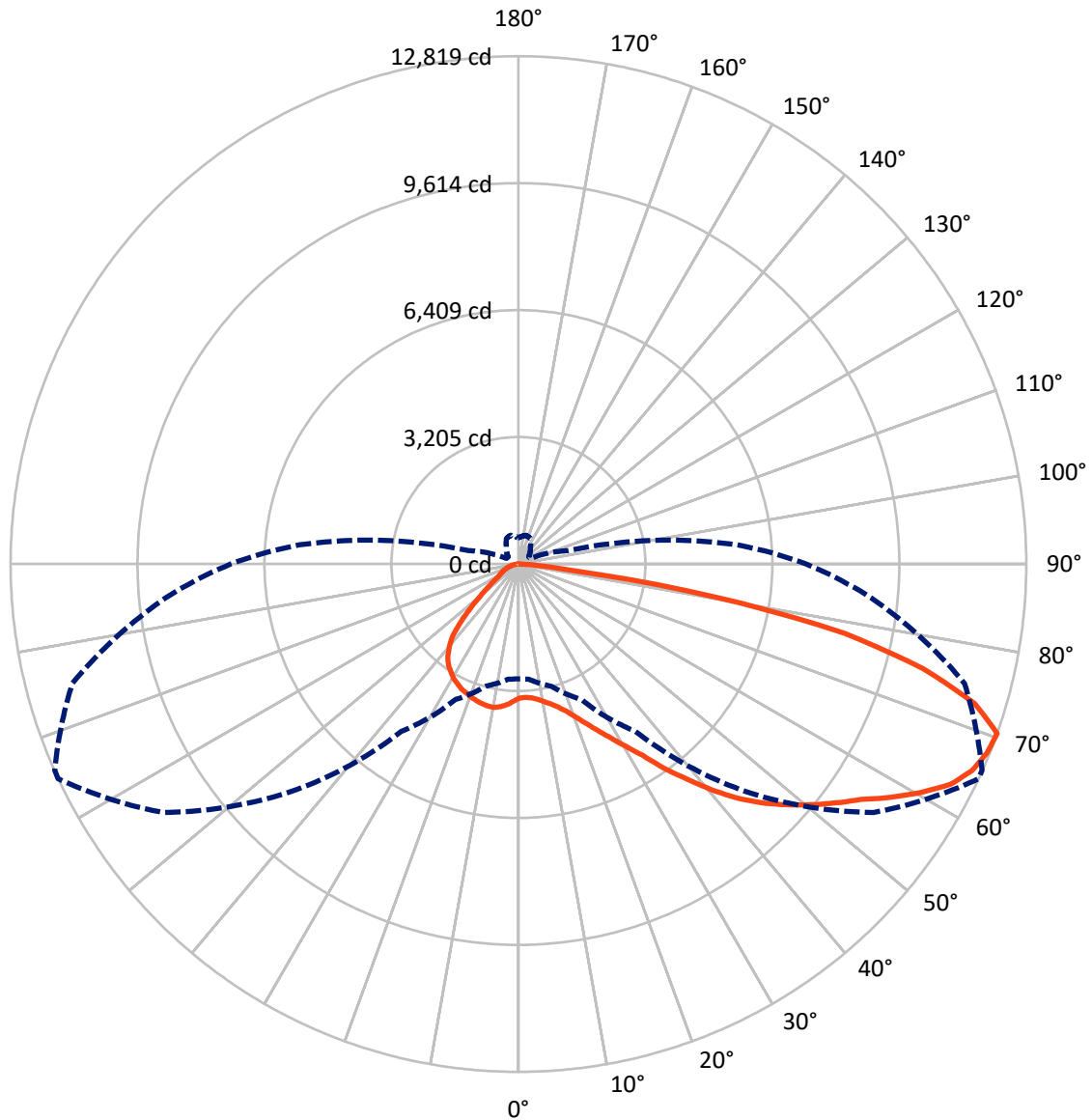
× Max cd
 - - - 1/2 Max cd



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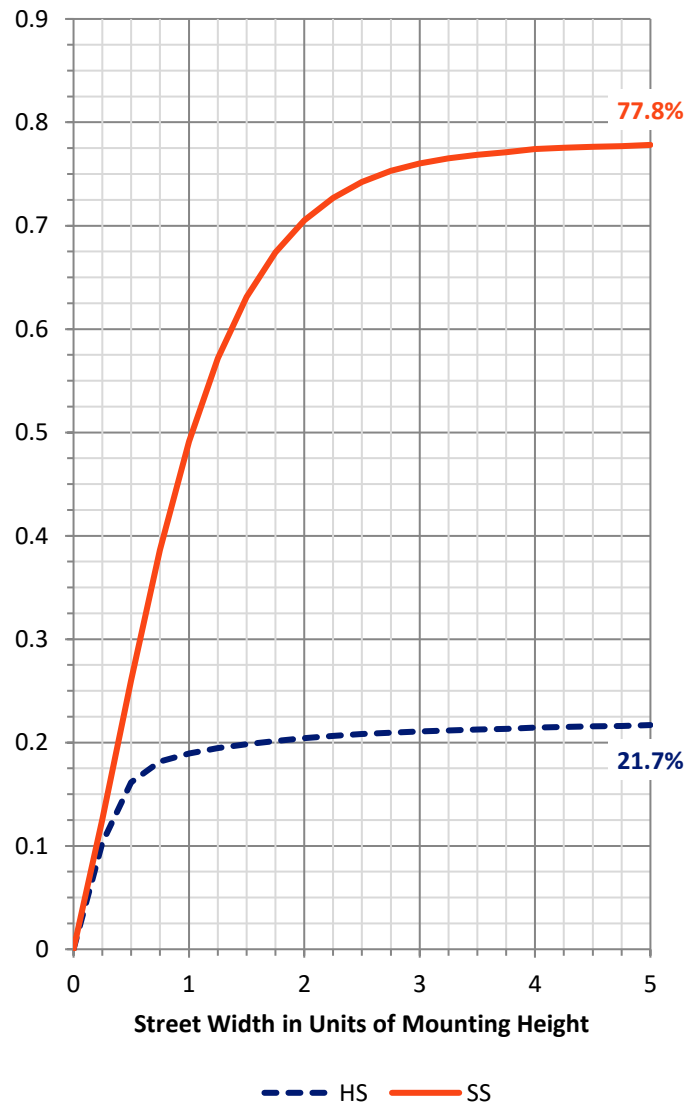
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4892.3	0.0	4892.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17285.7	0.0	17285.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	22178.0	0.0	22178.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	1.5
10°-20°	1073.5	4.8
20°-30°	1862.4	8.4
30°-40°	2707.8	12.2
40°-50°	3617.7	16.3
50°-60°	4406.7	19.9
60°-70°	4750.5	21.4
70°-80°	3079.9	13.9
80°-90°	339.7	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°	22178.0	100.0
0°-180°	22178.0	100.0



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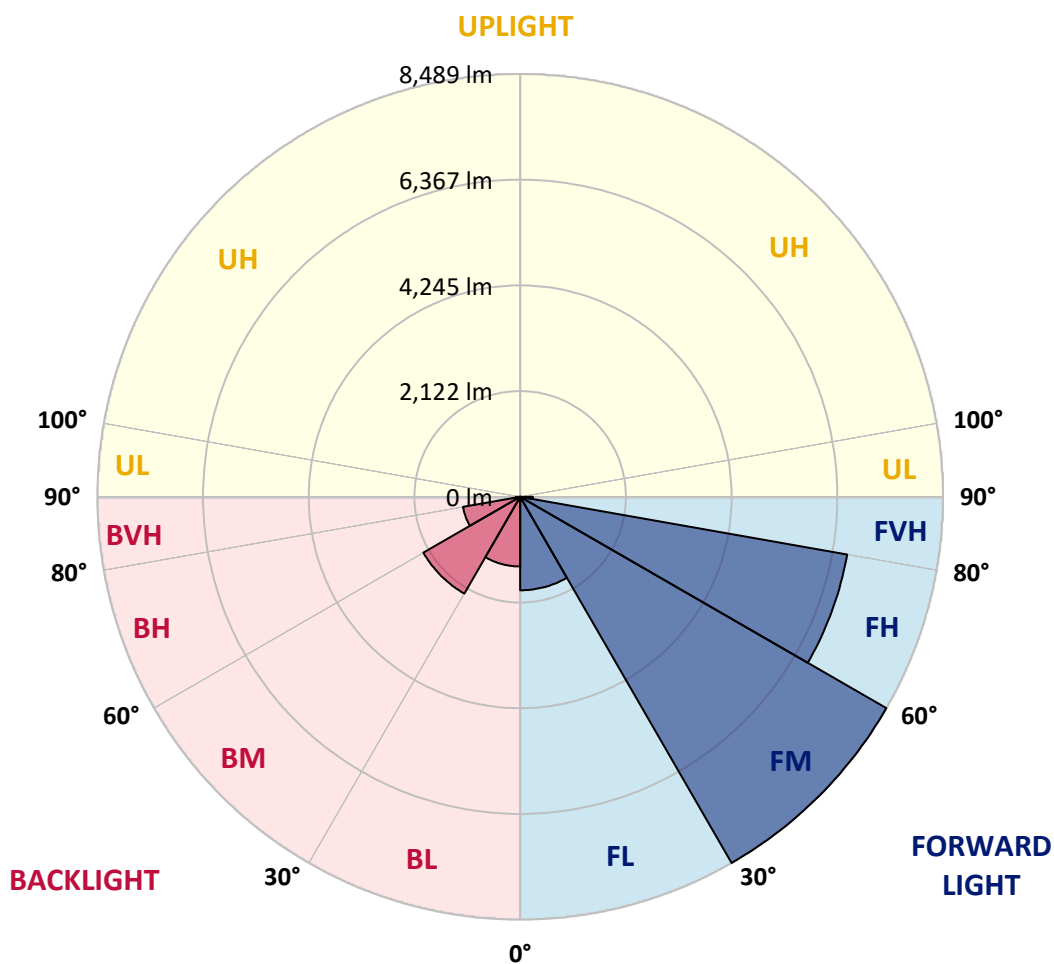
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1876.9	8.5			
FM	(30°-60°)	8489.3	38.3			
FH	(60°-80°)	6666.2	30.1			G3/7500
FVH	(80°-90°)	253.4	1.1			G3/500
BL	(0°-30°)	1398.7	6.3	B3/2500		
BM	(30°-60°)	2242.9	10.1	B2/2500		
BH	(60°-80°)	1164.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	86.3	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°	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9
2.5°	3335.9	3365.9	3349.9	3350.9	3373.9	3354.9	3367.9	3367.9	3366.9	3373.9	3394.9
5°	3417.9	3449.9	3430.9	3418.9	3423.9	3399.9	3394.9	3390.9	3387.9	3395.9	3430.9
7.5°	3537.9	3574.9	3553.9	3542.9	3536.9	3481.9	3471.9	3444.9	3441.9	3448.9	3480.9
10°	3696.9	3746.9	3721.9	3690.9	3669.9	3605.9	3554.9	3530.9	3523.9	3519.9	3552.9
12.5°	3925.9	3969.9	3940.9	3882.9	3854.9	3751.9	3690.9	3622.9	3621.9	3607.9	3632.9
15°	4142.9	4188.9	4151.9	4094.9	4057.9	3918.9	3828.9	3744.9	3734.9	3718.9	3726.9
17.5°	4352.9	4408.9	4382.9	4330.9	4285.9	4130.9	4012.9	3904.9	3893.9	3868.9	3831.9
20°	4613.9	4664.9	4657.9	4610.9	4560.9	4384.9	4255.9	4116.9	4104.9	4059.9	3976.9
22.5°	4874.9	4937.9	4898.9	4890.9	4862.9	4687.9	4507.9	4366.9	4354.9	4295.9	4143.9
25°	5120.9	5176.9	5190.9	5177.9	5180.9	5007.9	4828.9	4651.9	4639.9	4559.9	4339.9
27.5°	5411.9	5464.9	5468.9	5471.9	5506.9	5362.9	5152.9	4970.9	4962.9	4872.9	4593.9
30°	5634.9	5722.9	5740.9	5757.9	5775.9	5698.9	5507.9	5337.9	5321.9	5223.9	4879.9
32.5°	5838.9	5904.9	5968.9	6003.9	6084.9	6015.9	5858.9	5753.9	5754.9	5708.9	5335.9
35°	5996.9	6069.9	6150.9	6278.9	6396.9	6367.9	6318.9	6324.9	6325.9	6345.9	5950.9
37.5°	6147.9	6213.9	6315.9	6468.9	6676.9	6714.9	6747.9	6872.9	6916.9	7010.9	6518.9
40°	6238.9	6308.9	6440.9	6652.9	6922.9	7059.9	7159.9	7480.9	7556.9	7557.9	6957.9
42.5°	6105.9	6182.9	6418.9	6795.9	7144.9	7400.9	7663.9	8068.9	8123.9	8000.9	7332.9
45°	5986.9	6057.9	6311.9	6817.9	7318.9	7764.9	8130.9	8599.9	8639.9	8391.9	7678.9
47.5°	5871.9	5927.9	6221.9	6771.9	7496.9	8129.9	8528.9	9079.9	9108.9	8819.9	8016.9
50°	5712.9	5779.9	6091.9	6717.9	7603.9	8442.9	8918.9	9553.9	9549.9	9204.9	8322.9
52.5°	5538.9	5604.9	5939.9	6618.9	7673.9	8685.9	9362.9	10017.8	10020.8	9646.8	8625.9
55°	5319.9	5400.9	5753.9	6484.9	7690.9	8876.9	9747.8	10493.8	10542.8	10097.8	8917.9
57.5°	5057.9	5138.9	5524.9	6288.9	7589.9	9036.9	10158.8	11101.8	11127.8	10558.8	9135.9
60°	4752.9	4850.9	5219.9	6026.9	7396.9	9222.9	10656.8	11697.8	11706.8	10970.8	9317.9
62.5°	4399.9	4469.9	4857.9	5646.9	7088.9	9296.9	11068.8	12244.8	12246.8	11281.8	9399.9
65°	4017.9	4044.9	4369.9	5129.9	6639.9	9175.9	11226.8	12577.8	12568.8	11554.8	9358.9
67.5°	3562.9	3549.9	3896.9	4490.9	6071.9	8772.9	11149.8	12748.8	12775.8	11764.8	9226.9
70°	2897.0	2916.0	3192.0	3775.9	5154.9	8125.9	10937.8	12818.8	12811.8	11659.8	8801.9
72.5°	2199.0	2233.0	2433.0	2871.0	4000.9	6833.9	10029.8	12044.8	12058.8	10919.8	8036.9
75°	1360.0	1458.0	1627.0	1894.0	2507.0	4895.9	8536.9	10550.8	10621.8	9634.9	6617.9
77.5°	596.0	619.0	704.0	913.0	1311.0	2458.0	6310.9	8425.9	8635.9	7791.9	4773.9
80°	369.0	369.0	393.0	458.0	585.0	914.0	2529.0	5030.9	4817.9	4456.9	2106.0
82.5°	307.0	307.0	319.0	330.0	300.0	387.0	846.0	1410.0	1511.0	1223.0	647.0
85°	167.0	171.0	172.0	175.0	172.0	209.0	333.0	417.0	422.0	382.0	230.0
87.5°	61.0	65.0	63.0	59.0	53.0	50.0	64.0	65.0	67.0	62.0	34.0
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°	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9
2.5°	3408.9	3422.9	3459.9	3462.9	3476.9	3481.9	3493.9	3510.9	3540.9	3525.9	3508.9
5°	3447.9	3465.9	3524.9	3554.9	3593.9	3616.9	3654.9	3673.9	3719.9	3704.9	3702.9
7.5°	3506.9	3544.9	3597.9	3626.9	3677.9	3692.9	3720.9	3720.9	3758.9	3739.9	3734.9
10°	3586.9	3611.9	3667.9	3669.9	3698.9	3698.9	3731.9	3710.9	3747.9	3725.9	3724.9
12.5°	3650.9	3664.9	3685.9	3668.9	3683.9	3666.9	3683.9	3658.9	3681.9	3653.9	3647.9
15°	3722.9	3703.9	3682.9	3642.9	3629.9	3602.9	3588.9	3562.9	3564.9	3532.9	3527.9
17.5°	3803.9	3754.9	3693.9	3606.9	3558.9	3489.9	3460.9	3423.9	3402.9	3373.9	3386.9
20°	3901.9	3828.9	3701.9	3566.9	3464.9	3359.9	3291.9	3231.9	3226.9	3201.0	3187.0
22.5°	4028.9	3911.9	3736.9	3509.9	3345.9	3196.0	3095.0	2995.0	2985.0	2932.0	2912.0
25°	4185.9	4021.9	3754.9	3465.9	3207.0	3001.0	2842.0	2703.0	2636.0	2580.0	2567.0
27.5°	4396.9	4183.9	3790.9	3386.9	3043.0	2759.0	2531.0	2347.0	2267.0	2239.0	2210.0
30°	4643.9	4381.9	3857.9	3320.9	2849.0	2450.0	2172.0	1953.0	1866.0	1822.0	1808.0
32.5°	5007.9	4631.9	3919.9	3212.0	2614.0	2110.0	1748.0	1506.0	1453.0	1445.0	1464.0
35°	5537.9	5101.9	4009.9	3111.0	2338.0	1732.0	1332.0	1174.0	1163.0	1165.0	1165.0
37.5°	6089.9	5549.9	4276.9	2962.0	2000.0	1304.0	1014.0	928.0	932.0	932.0	931.0
40°	6449.9	5909.9	4470.9	2751.0	1580.0	935.0	752.0	687.0	715.0	753.0	773.0
42.5°	6846.9	6236.9	4604.9	2508.0	1099.0	661.0	547.0	570.0	652.0	710.0	718.0
45°	7184.9	6514.9	4619.9	2130.0	708.0	502.0	499.0	565.0	660.0	723.0	728.0
47.5°	7474.9	6767.9	4525.9	1698.0	516.0	469.0	499.0	582.0	668.0	707.0	711.0
50°	7755.9	6968.9	4304.9	1305.0	470.0	457.0	505.0	585.0	639.0	666.0	662.0
52.5°	8005.9	7151.9	3984.9	1018.0	452.0	449.0	510.0	582.0	616.0	614.0	611.0
55°	8195.9	7205.9	3734.9	794.0	437.0	444.0	513.0	585.0	610.0	592.0	588.0
57.5°	8293.9	7138.9	3524.9	631.0	421.0	439.0	521.0	584.0	628.0	662.0	660.0
60°	8291.9	7062.9	3265.9	544.0	405.0	435.0	534.0	634.0	793.0	825.0	826.0
62.5°	8259.9	6932.9	2911.0	492.0	387.0	437.0	543.0	720.0	903.0	877.0	856.0
65°	8153.9	6688.9	2435.0	436.0	364.0	439.0	539.0	779.0	828.0	735.0	722.0
67.5°	7858.9	6216.9	1912.0	390.0	343.0	428.0	546.0	724.0	761.0	702.0	683.0
70°	7259.9	5551.9	1296.0	336.0	319.0	412.0	530.0	712.0	751.0	691.0	663.0
72.5°	6310.9	4455.9	758.0	289.0	284.0	379.0	522.0	720.0	763.0	696.0	660.0
75°	4911.9	3124.0	438.0	234.0	237.0	350.0	479.0	679.0	756.0	704.0	657.0
77.5°	3171.0	1517.0	309.0	187.0	185.0	276.0	389.0	594.0	728.0	711.0	672.0
80°	1135.0	554.0	217.0	139.0	135.0	187.0	299.0	478.0	616.0	638.0	638.0
82.5°	408.0	278.0	139.0	85.0	84.0	119.0	223.0	363.0	447.0	504.0	518.0
85°	171.0	121.0	68.0	43.0	35.0	46.0	115.0	225.0	303.0	326.0	355.0
87.5°	25.0	22.0	18.0	14.0	12.0	12.0	15.0	65.0	108.0	155.0	192.0
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)