

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: P509967

Luminaire Tested: **VERD-M-CA3-180-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509967
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-CA3-180-722-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20841 lumens
Efficiency: N/A
Efficacy: 113.8 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

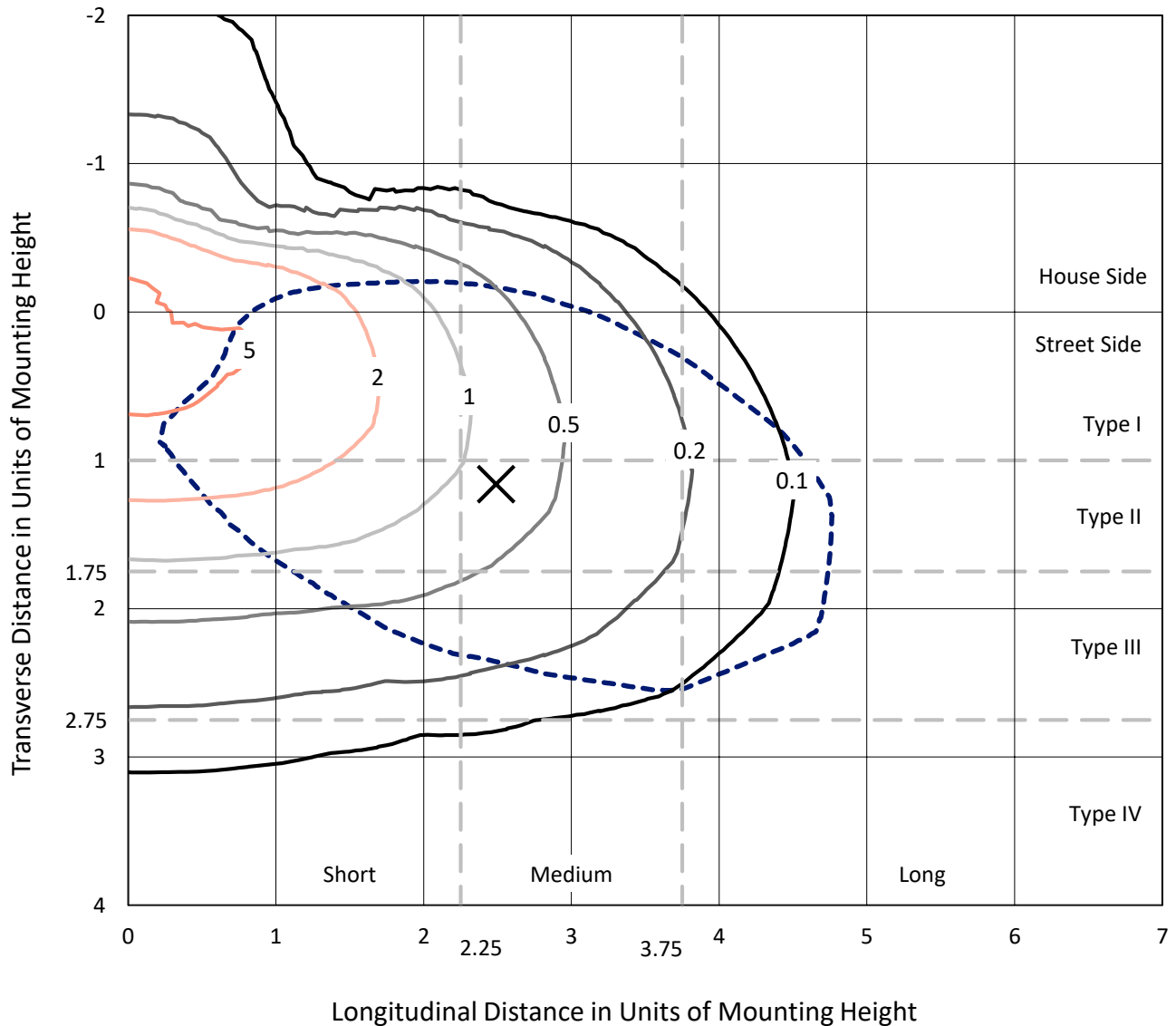
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

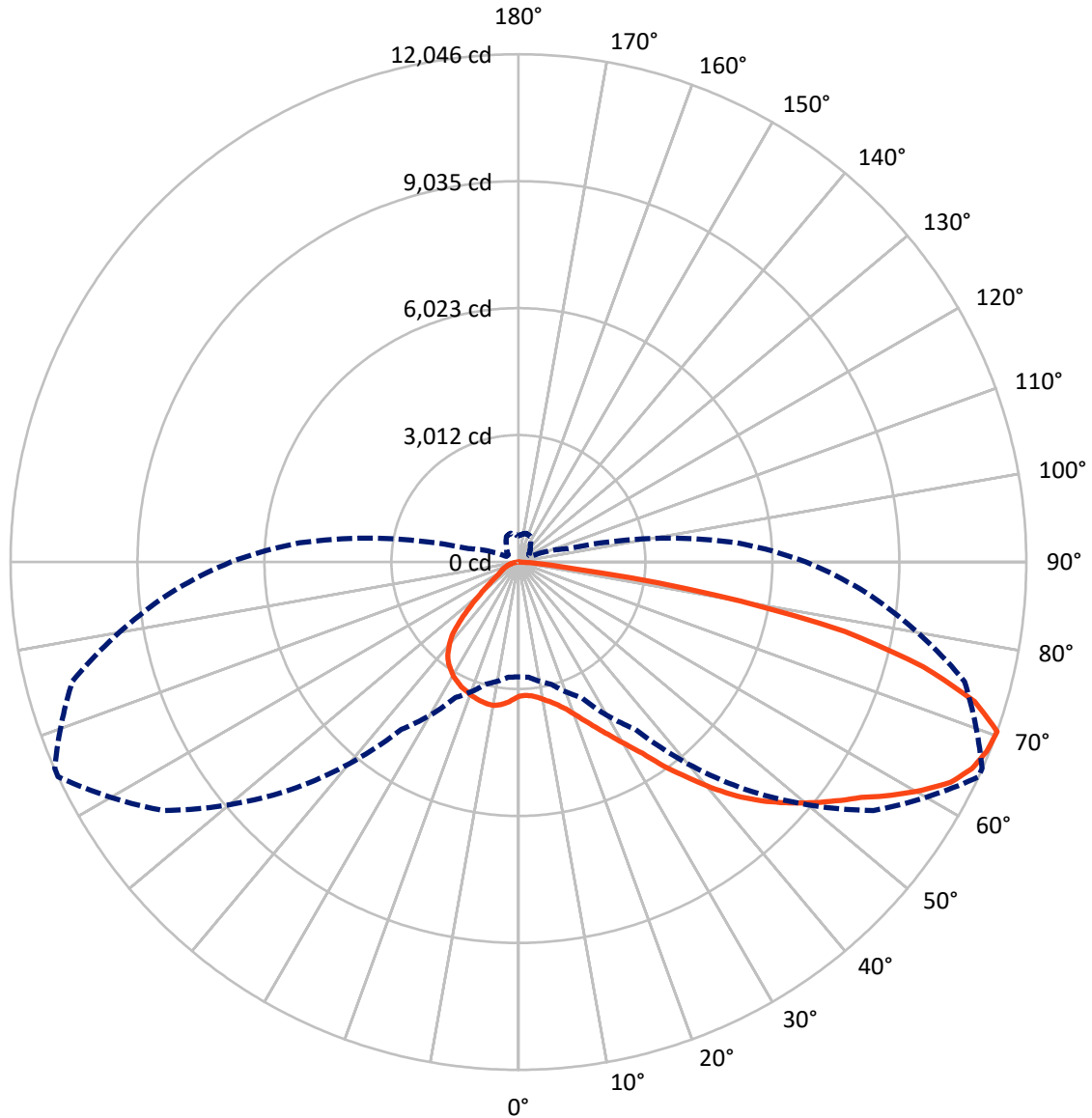
× Max cd
 - - - 1/2 Max cd



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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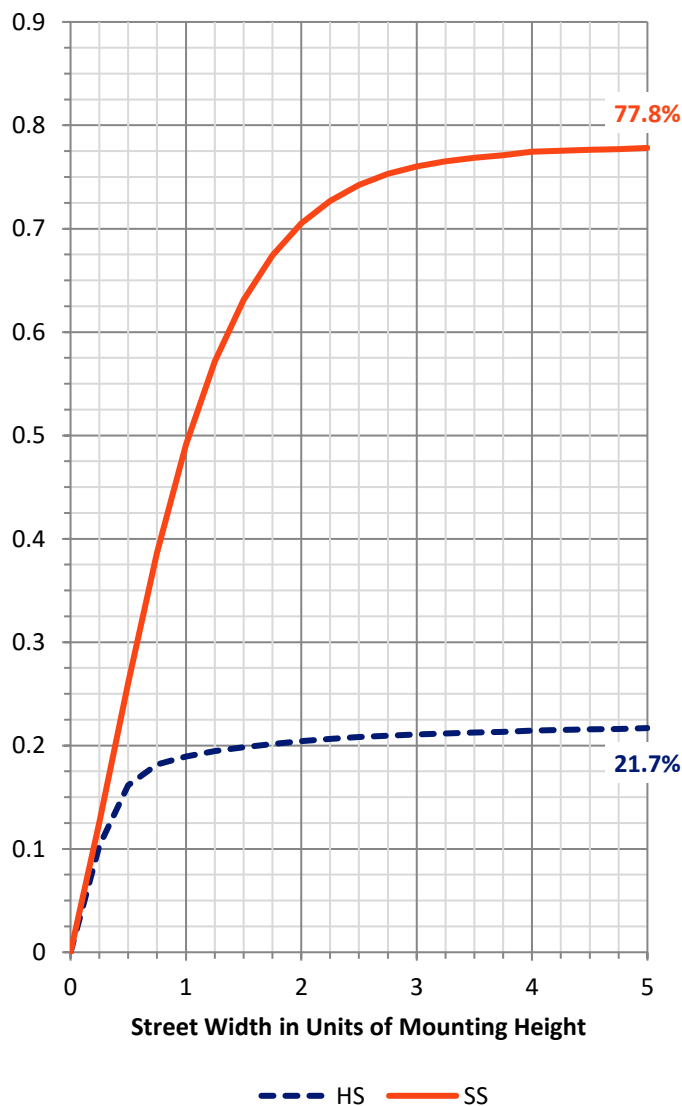
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4597.3	0.0	4597.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16243.7	0.0	16243.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	20841.0	0.0	20841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.2	1.5
10°-20°	1008.8	4.8
20°-30°	1750.1	8.4
30°-40°	2544.6	12.2
40°-50°	3399.6	16.3
50°-60°	4141.0	19.9
60°-70°	4464.1	21.4
70°-80°	2894.3	13.9
80°-90°	319.2	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°	20841.0	100.0
0°-180°	20841.0	100.0

Coefficient of Utilization



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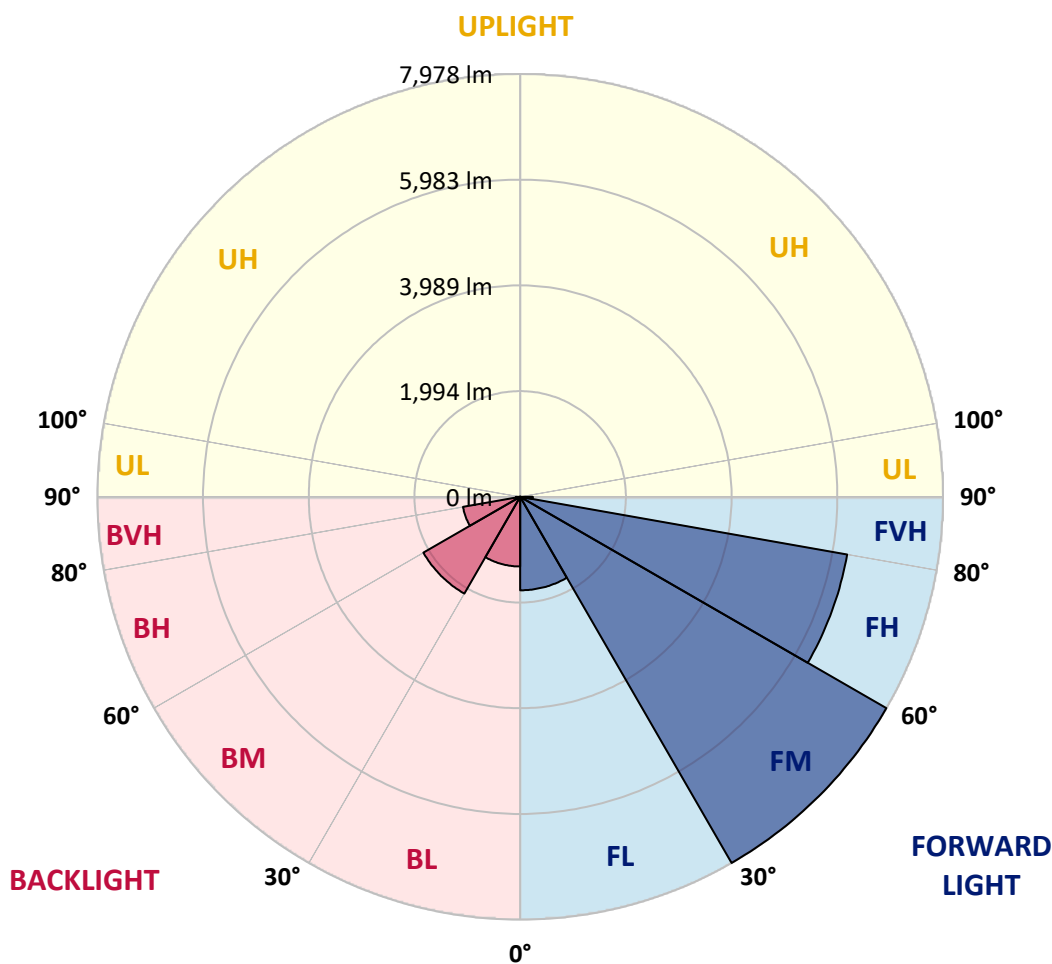
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.7	8.5			
FM (30°-60°)	7977.6	38.3			
FH (60°-80°)	6264.3	30.1			G3/7500
FVH (80°-90°)	238.1	1.1			G3/500
BL (0°-30°)	1314.4	6.3	B3/2500		
BM (30°-60°)	2107.7	10.1	B2/2500		
BH (60°-80°)	1094.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	81.1	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°	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8
2.5°	3134.8	3163.0	3148.0	3148.9	3170.5	3152.7	3164.9	3164.9	3164.0	3170.5	3190.3
5°	3211.9	3242.0	3224.1	3212.8	3217.5	3195.0	3190.3	3186.5	3183.7	3191.2	3224.1
7.5°	3324.7	3359.4	3339.7	3329.4	3323.7	3272.0	3262.6	3237.3	3234.4	3241.0	3271.1
10°	3474.1	3521.1	3497.6	3468.4	3448.7	3388.6	3340.6	3318.1	3311.5	3307.7	3338.8
12.5°	3689.3	3730.6	3703.4	3648.9	3622.5	3525.8	3468.4	3404.5	3403.6	3390.4	3413.9
15°	3893.2	3936.4	3901.6	3848.1	3813.3	3682.7	3598.1	3519.2	3509.8	3494.7	3502.3
17.5°	4090.5	4143.1	4118.7	4069.8	4027.6	3881.9	3771.0	3669.5	3659.2	3635.7	3600.9
20°	4335.8	4383.7	4377.1	4333.0	4286.0	4120.6	3999.4	3868.7	3857.5	3815.2	3737.2
22.5°	4581.0	4640.2	4603.6	4596.1	4569.8	4405.3	4236.2	4103.7	4092.4	4037.0	3894.1
25°	4812.2	4864.8	4878.0	4865.8	4868.6	4706.0	4537.8	4371.5	4360.2	4285.0	4078.3
27.5°	5085.7	5135.5	5139.2	5142.0	5174.9	5039.6	4842.3	4671.3	4663.7	4579.2	4317.0
30°	5295.2	5377.9	5394.8	5410.8	5427.7	5355.4	5175.9	5016.1	5001.1	4909.0	4585.7
32.5°	5486.9	5548.9	5609.1	5642.0	5718.1	5653.2	5505.7	5407.0	5408.0	5364.7	5014.2
35°	5635.4	5704.0	5780.1	5900.4	6011.3	5984.0	5938.0	5943.6	5944.5	5963.3	5592.2
37.5°	5777.3	5839.3	5935.1	6078.9	6274.4	6310.1	6341.1	6458.6	6499.9	6588.2	6125.9
40°	5862.8	5928.6	6052.6	6251.8	6505.5	6634.3	6728.3	7029.9	7101.3	7102.3	6538.4
42.5°	5737.8	5810.2	6031.9	6386.2	6714.2	6954.7	7201.9	7582.4	7634.1	7518.5	6890.8
45°	5626.0	5692.7	5931.4	6406.9	6877.7	7296.8	7640.7	8081.4	8119.0	7886.0	7216.0
47.5°	5517.9	5570.5	5846.8	6363.7	7044.9	7639.8	8014.7	8532.5	8559.7	8288.2	7533.6
50°	5368.5	5431.5	5724.7	6312.9	7145.5	7933.9	8381.2	8977.9	8974.1	8649.9	7821.1
52.5°	5205.0	5267.0	5581.8	6219.9	7211.3	8162.2	8798.4	9413.9	9416.7	9065.3	8105.9
55°	4999.2	5075.3	5407.0	6094.0	7227.2	8341.7	9160.2	9861.2	9907.3	9489.1	8380.2
57.5°	4753.0	4829.1	5191.8	5909.8	7132.3	8492.1	9546.4	10432.6	10457.0	9922.3	8585.1
60°	4466.4	4558.5	4905.2	5663.6	6951.0	8666.9	10014.4	10992.6	11001.1	10309.5	8756.1
62.5°	4134.7	4200.5	4565.1	5306.5	6661.5	8736.4	10401.5	11506.6	11508.5	10601.7	8833.2
65°	3775.7	3801.1	4106.5	4820.7	6239.6	8622.7	10550.0	11819.6	11811.1	10858.2	8794.7
67.5°	3348.2	3335.9	3662.0	4220.2	5705.9	8244.0	10477.7	11980.2	12005.6	11055.6	8670.6
70°	2722.3	2740.2	2999.5	3548.3	4844.2	7636.0	10278.4	12046.0	12039.4	10956.9	8271.2
72.5°	2066.4	2098.4	2286.3	2697.9	3759.7	6421.9	9425.2	11318.7	11331.8	10261.5	7552.4
75°	1278.0	1370.1	1528.9	1779.8	2355.8	4600.8	8022.2	9914.8	9981.5	9054.0	6218.9
77.5°	560.1	581.7	661.5	857.9	1231.9	2309.8	5930.4	7917.9	8115.3	7322.1	4486.1
80°	346.7	346.7	369.3	430.4	549.7	858.9	2376.5	4727.6	4527.5	4188.2	1979.0
82.5°	288.5	288.5	299.8	310.1	281.9	363.7	795.0	1325.0	1419.9	1149.3	608.0
85°	156.9	160.7	161.6	164.4	161.6	196.4	312.9	391.9	396.6	359.0	216.1
87.5°	57.3	61.1	59.2	55.4	49.8	47.0	60.1	61.1	63.0	58.3	31.9
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°	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8	3181.8
2.5°	3203.4	3216.6	3251.4	3254.2	3267.3	3272.0	3283.3	3299.3	3327.5	3313.4	3297.4
5°	3240.1	3257.0	3312.4	3340.6	3377.3	3398.9	3434.6	3452.5	3495.7	3481.6	3479.7
7.5°	3295.5	3331.2	3381.0	3408.3	3456.2	3470.3	3496.6	3496.6	3532.3	3514.5	3509.8
10°	3370.7	3394.2	3446.8	3448.7	3476.0	3476.0	3507.0	3487.2	3522.0	3501.3	3500.4
12.5°	3430.8	3444.0	3463.7	3447.8	3461.9	3445.9	3461.9	3438.4	3460.0	3433.7	3428.0
15°	3498.5	3480.7	3460.9	3423.3	3411.1	3385.7	3372.6	3348.2	3350.0	3320.0	3315.3
17.5°	3574.6	3528.6	3471.3	3389.5	3344.4	3279.6	3252.3	3217.5	3197.8	3170.5	3182.8
20°	3666.7	3598.1	3478.8	3351.9	3256.1	3157.4	3093.5	3037.1	3032.4	3008.0	2994.8
22.5°	3786.1	3676.1	3511.7	3298.3	3144.2	3003.3	2908.4	2814.4	2805.0	2755.2	2736.4
25°	3933.6	3779.5	3528.6	3257.0	3013.6	2820.0	2670.6	2540.0	2477.1	2424.4	2412.2
27.5°	4131.9	3931.7	3562.4	3182.8	2859.5	2592.6	2378.4	2205.5	2130.3	2104.0	2076.7
30°	4364.0	4117.8	3625.4	3120.7	2677.2	2302.3	2041.0	1835.2	1753.5	1712.1	1699.0
32.5°	4706.0	4352.7	3683.6	3018.3	2456.4	1982.8	1642.6	1415.2	1365.4	1357.9	1375.7
35°	5204.1	4794.4	3768.2	2923.4	2197.0	1627.6	1251.7	1103.2	1092.9	1094.8	1094.8
37.5°	5722.8	5215.3	4019.1	2783.4	1879.4	1225.4	952.9	872.0	875.8	875.8	874.9
40°	6061.1	5553.6	4201.4	2585.1	1484.7	878.6	706.7	645.6	671.9	707.6	726.4
42.5°	6434.1	5860.9	4327.3	2356.8	1032.7	621.1	514.0	535.6	612.7	667.2	674.7
45°	6751.7	6122.1	4341.4	2001.6	665.3	471.7	468.9	530.9	620.2	679.4	684.1
47.5°	7024.3	6359.9	4253.1	1595.6	484.9	440.7	468.9	546.9	627.7	664.4	668.1
50°	7288.3	6548.8	4045.4	1226.3	441.7	429.4	474.5	549.7	600.5	625.8	622.1
52.5°	7523.2	6720.7	3744.7	956.6	424.7	421.9	479.2	546.9	578.9	577.0	574.2
55°	7701.8	6771.5	3509.8	746.1	410.6	417.2	482.1	549.7	573.2	556.3	552.5
57.5°	7793.9	6708.5	3312.4	593.0	395.6	412.5	489.6	548.8	590.1	622.1	620.2
60°	7792.0	6637.1	3069.1	511.2	380.6	408.8	501.8	595.8	745.2	775.3	776.2
62.5°	7761.9	6514.9	2735.5	462.3	363.7	410.6	510.3	676.6	848.5	824.1	804.4
65°	7662.3	6285.7	2288.2	409.7	342.1	412.5	506.5	732.0	778.1	690.7	678.5
67.5°	7385.1	5842.1	1796.7	366.5	322.3	402.2	513.1	680.3	715.1	659.7	641.8
70°	6822.2	5217.2	1217.9	315.7	299.8	387.2	498.0	669.1	705.7	649.3	623.0
72.5°	5930.4	4187.3	712.3	271.6	266.9	356.1	490.5	676.6	717.0	654.0	620.2
75°	4615.8	2935.6	411.6	219.9	222.7	328.9	450.1	638.1	710.4	661.5	617.4
77.5°	2979.8	1425.5	290.4	175.7	173.8	259.4	365.5	558.2	684.1	668.1	631.5
80°	1066.6	520.6	203.9	130.6	126.9	175.7	281.0	449.2	578.9	599.5	599.5
82.5°	383.4	261.2	130.6	79.9	78.9	111.8	209.6	341.1	420.0	473.6	486.8
85°	160.7	113.7	63.9	40.4	32.9	43.2	108.1	211.4	284.7	306.3	333.6
87.5°	23.5	20.7	16.9	13.2	11.3	11.3	14.1	61.1	101.5	145.7	180.4
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)