

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: P509879

Luminaire Tested: **VERD-M-CA3-160-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509879
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-CA3-160-727-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1000mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19789 lumens
Efficiency: N/A
Efficacy: 121.6 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

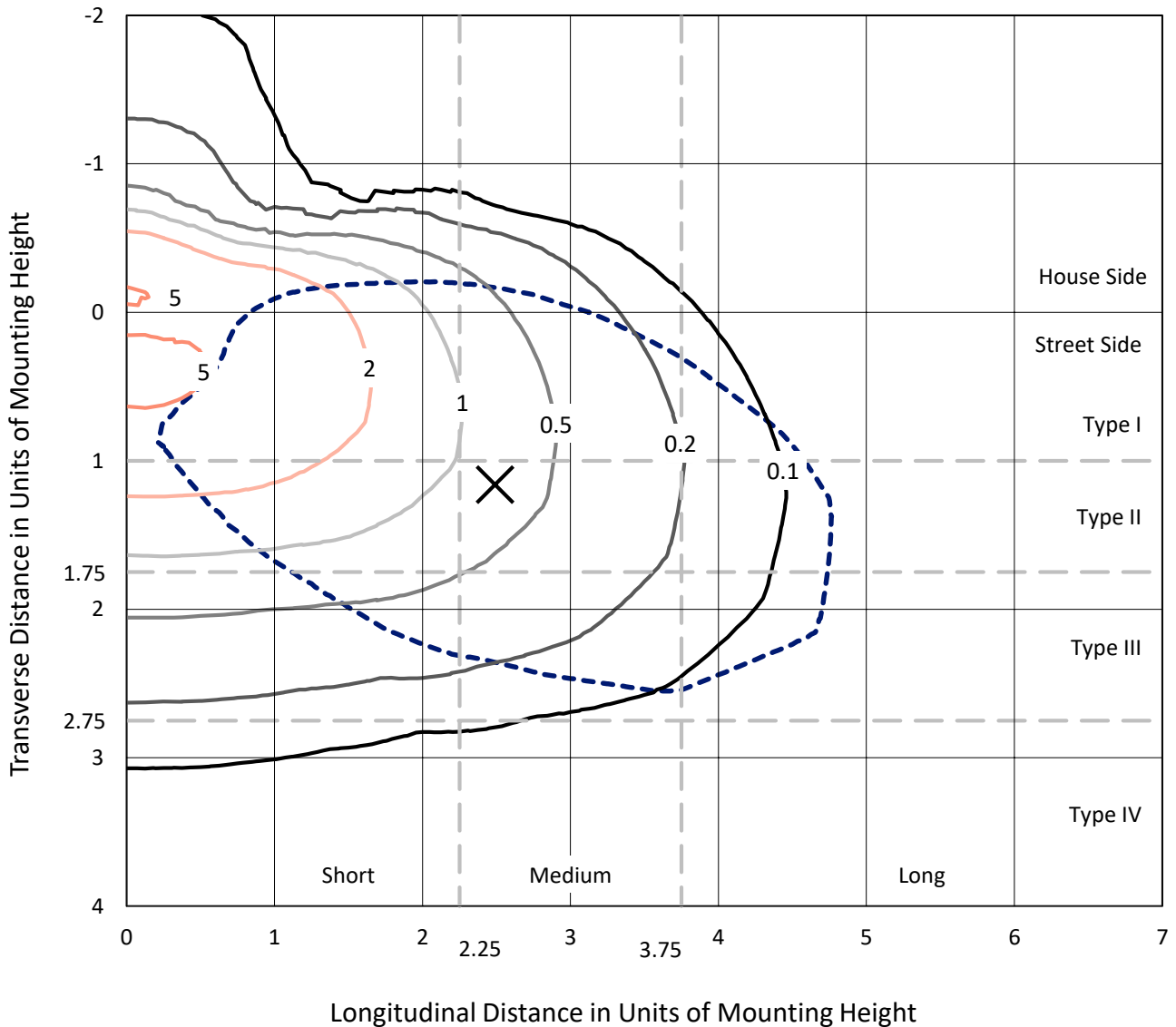
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

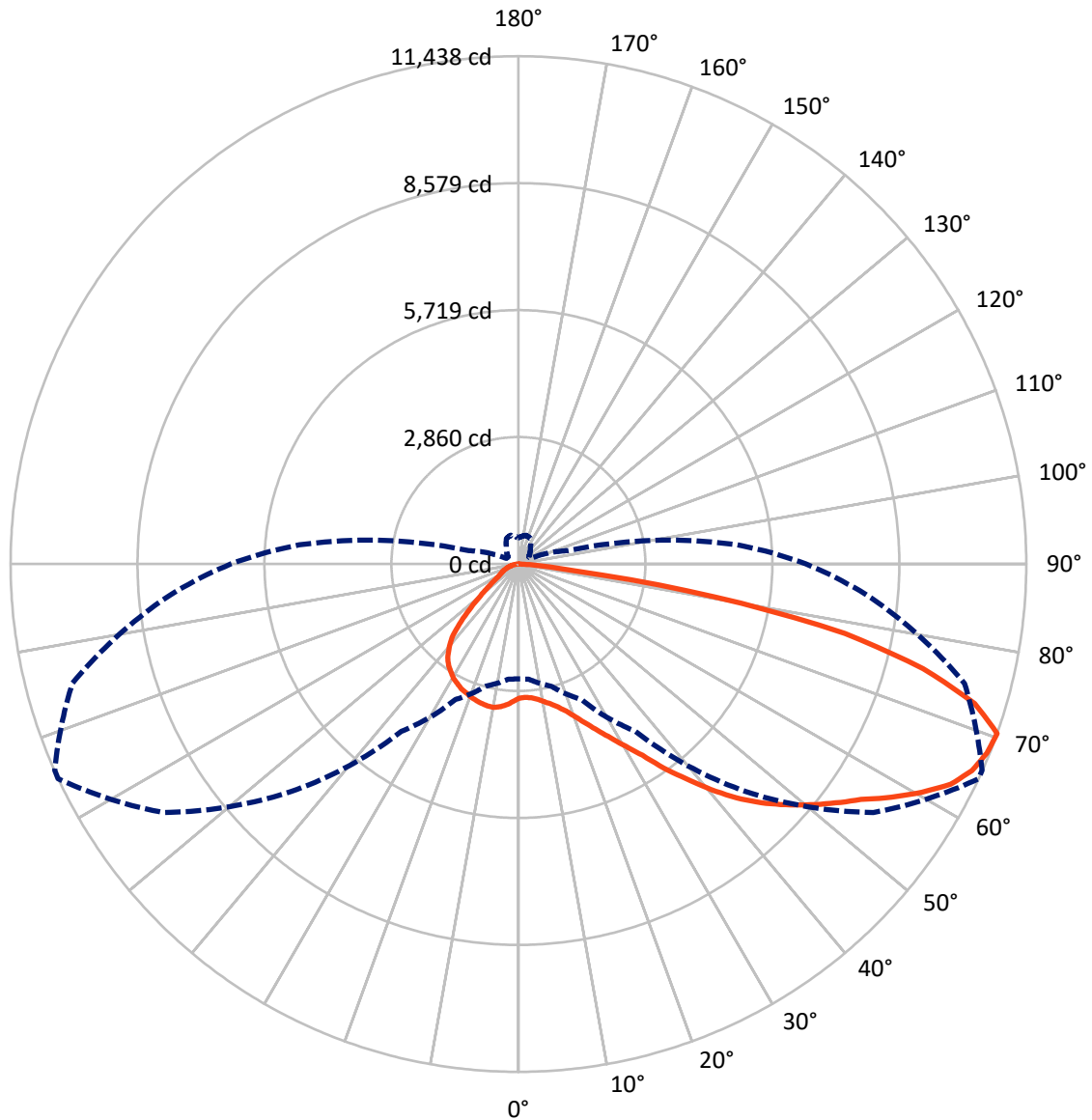
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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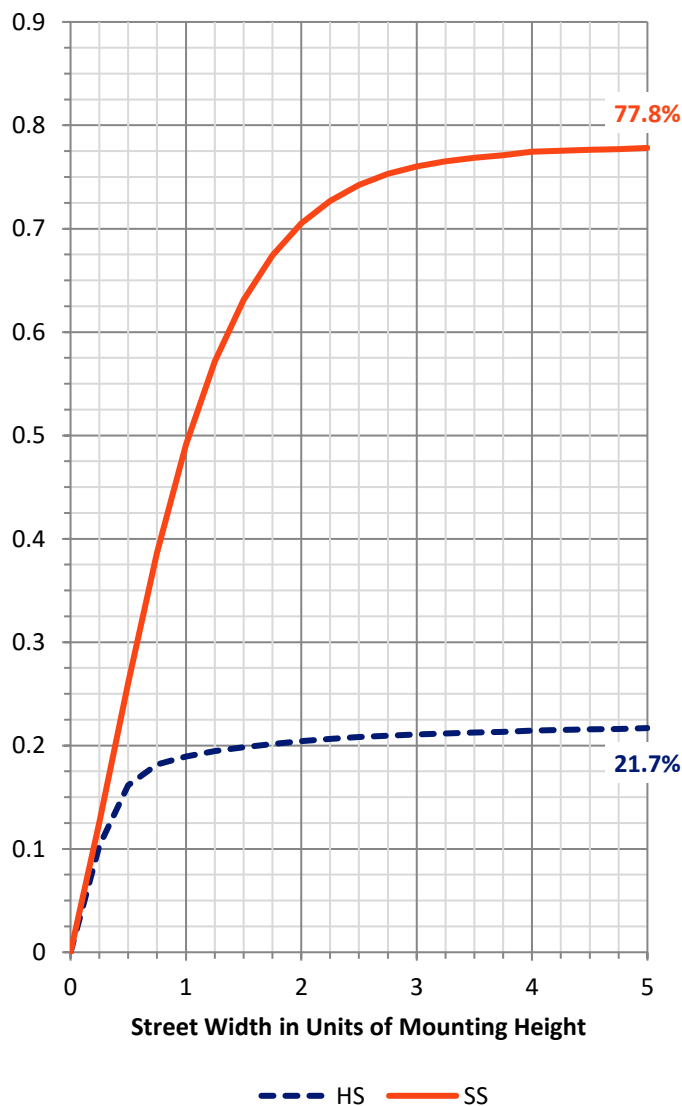
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.3	0.0	4365.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15423.7	0.0	15423.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	19789.0	0.0	19789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.5
10°-20°	957.9	4.8
20°-30°	1661.8	8.4
30°-40°	2416.2	12.2
40°-50°	3228.0	16.3
50°-60°	3932.0	19.9
60°-70°	4238.8	21.4
70°-80°	2748.2	13.9
80°-90°	303.1	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°	19789.0	100.0
0°-180°	19789.0	100.0

Coefficient of Utilization



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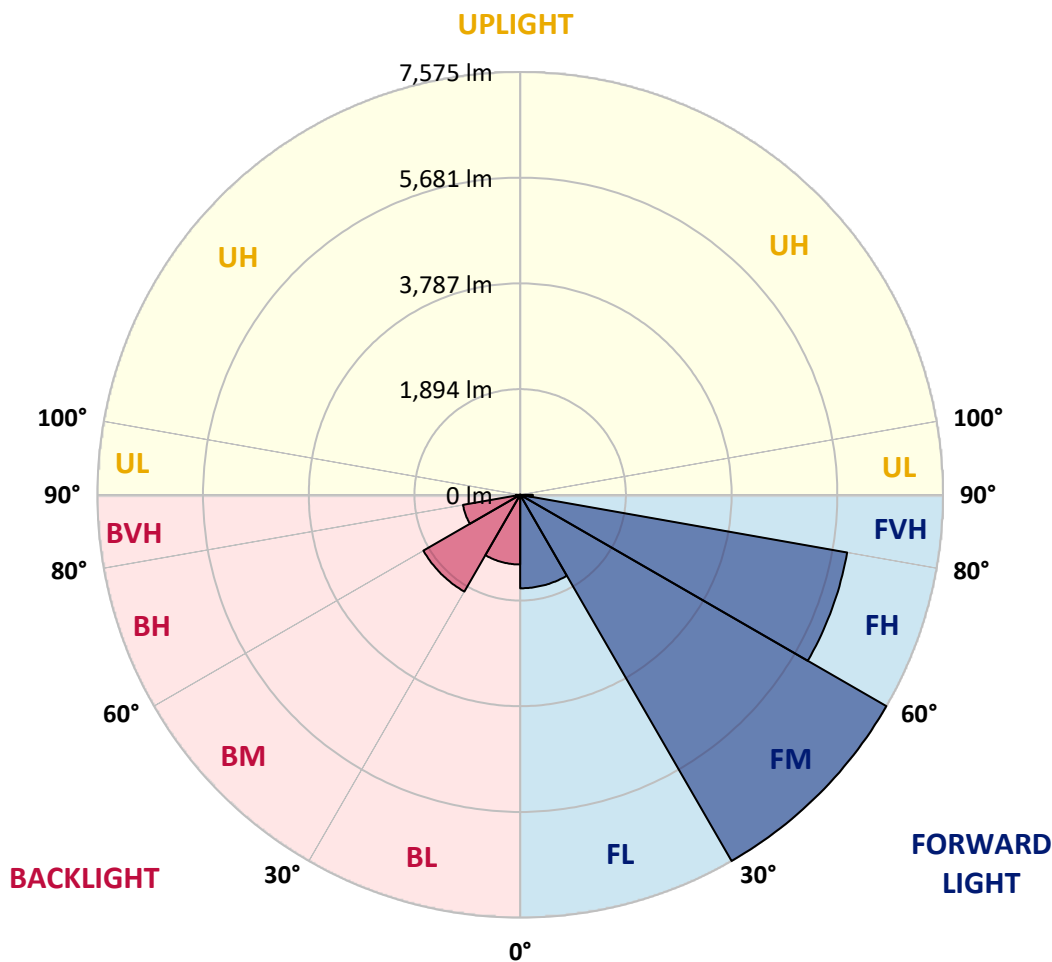
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.7	8.5			
FM (30°-60°)	7574.9	38.3			
FH (60°-80°)	5948.1	30.1			G3/7500
FVH (80°-90°)	226.1	1.1			G3/500
BL (0°-30°)	1248.0	6.3	B3/2500		
BM (30°-60°)	2001.3	10.1	B2/2500		
BH (60°-80°)	1038.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	77.0	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°	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2
2.5°	2976.6	3003.4	2989.1	2990.0	3010.5	2993.6	3005.2	3005.2	3004.3	3010.5	3029.2
5°	3049.8	3078.3	3061.4	3050.7	3055.1	3033.7	3029.2	3025.7	3023.0	3030.1	3061.4
7.5°	3156.8	3189.9	3171.1	3161.3	3155.9	3106.9	3098.0	3073.9	3071.2	3077.4	3106.0
10°	3298.7	3343.3	3321.0	3293.4	3274.6	3217.5	3172.0	3150.6	3144.3	3140.8	3170.2
12.5°	3503.0	3542.3	3516.4	3464.7	3439.7	3347.8	3293.4	3232.7	3231.8	3219.3	3241.6
15°	3696.7	3737.7	3704.7	3653.8	3620.8	3496.8	3416.5	3341.5	3332.6	3318.3	3325.5
17.5°	3884.0	3934.0	3910.8	3864.4	3824.3	3686.0	3580.7	3484.3	3474.5	3452.2	3419.2
20°	4116.9	4162.4	4156.2	4114.2	4069.6	3912.6	3797.5	3673.5	3662.8	3622.6	3548.5
22.5°	4349.8	4406.0	4371.2	4364.1	4339.1	4182.9	4022.3	3896.5	3885.8	3833.2	3697.6
25°	4569.3	4619.3	4631.8	4620.2	4622.8	4468.5	4308.8	4150.8	4140.1	4068.7	3872.4
27.5°	4828.9	4876.2	4879.8	4882.5	4913.7	4785.2	4597.9	4435.5	4428.3	4348.0	4099.1
30°	5027.9	5106.4	5122.5	5137.7	5153.7	5085.0	4914.6	4762.9	4748.6	4661.2	4354.3
32.5°	5209.9	5268.8	5325.9	5357.2	5429.4	5367.9	5227.8	5134.1	5135.0	5094.0	4761.1
35°	5350.9	5416.1	5488.3	5602.5	5707.8	5682.0	5638.2	5643.6	5644.5	5662.3	5309.9
37.5°	5485.7	5544.5	5635.6	5772.1	5957.7	5991.6	6021.0	6132.5	6171.8	6255.7	5816.7
40°	5566.9	5629.3	5747.1	5936.3	6177.2	6299.4	6388.6	6675.0	6742.9	6743.8	6208.4
42.5°	5448.2	5516.9	5727.5	6063.8	6375.2	6603.7	6838.3	7199.7	7248.8	7139.0	6543.0
45°	5342.0	5405.4	5632.0	6083.5	6530.5	6928.5	7255.0	7673.5	7709.2	7487.9	6851.7
47.5°	5239.4	5289.4	5551.7	6042.4	6689.3	7254.1	7610.1	8101.8	8127.7	7869.8	7153.3
50°	5097.5	5157.3	5435.7	5994.2	6784.8	7533.4	7958.1	8524.7	8521.1	8213.3	7426.3
52.5°	4942.3	5001.2	5300.1	5905.9	6847.3	7750.2	8354.3	8938.7	8941.4	8607.7	7696.7
55°	4746.9	4819.1	5134.1	5786.3	6862.4	7920.7	8697.8	9363.4	9407.2	9010.1	7957.2
57.5°	4513.1	4585.4	4929.8	5611.5	6772.3	8063.4	9064.5	9905.9	9929.1	9421.4	8151.7
60°	4240.9	4328.4	4657.6	5377.7	6600.1	8229.4	9508.9	10437.7	10445.8	9789.1	8314.1
62.5°	3926.0	3988.4	4334.6	5038.6	6325.3	8295.4	9876.5	10925.8	10927.6	10066.6	8387.3
65°	3585.1	3609.2	3899.2	4577.3	5924.7	8187.4	10017.5	11222.9	11214.9	10310.1	8350.7
67.5°	3179.1	3167.5	3477.2	4007.2	5417.8	7827.9	9948.8	11375.5	11399.6	10497.5	8232.9
70°	2584.9	2601.8	2848.1	3369.2	4599.6	7250.6	9759.6	11438.0	11431.7	10403.8	7853.7
72.5°	1962.1	1992.4	2170.9	2561.7	3570.0	6097.8	8949.4	10747.4	10759.8	9743.6	7171.1
75°	1213.5	1300.9	1451.7	1690.0	2236.9	4368.5	7617.3	9414.3	9477.7	8597.0	5905.0
77.5°	531.8	552.3	628.2	814.6	1169.8	2193.2	5631.1	7518.2	7705.6	6952.5	4259.7
80°	329.2	329.2	350.7	408.7	522.0	815.5	2256.5	4489.0	4298.9	3976.8	1879.1
82.5°	273.9	273.9	284.6	294.4	267.7	345.3	754.9	1258.1	1348.2	1091.2	577.3
85°	149.0	152.6	153.5	156.1	153.5	186.5	297.1	372.1	376.5	340.8	205.2
87.5°	54.4	58.0	56.2	52.6	47.3	44.6	57.1	58.0	59.8	55.3	30.3
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°	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2	3021.2
2.5°	3041.7	3054.2	3087.2	3089.9	3102.4	3106.9	3117.6	3132.7	3159.5	3146.1	3131.0
5°	3076.5	3092.6	3145.2	3172.0	3206.8	3227.3	3261.2	3278.2	3319.2	3305.8	3304.1
7.5°	3129.2	3163.1	3210.4	3236.3	3281.8	3295.1	3320.1	3320.1	3354.0	3337.1	3332.6
10°	3200.6	3222.9	3272.8	3274.6	3300.5	3300.5	3329.9	3311.2	3344.2	3324.6	3323.7
12.5°	3257.7	3270.2	3288.9	3273.7	3287.1	3271.9	3287.1	3264.8	3285.3	3260.3	3255.0
15°	3321.9	3305.0	3286.2	3250.5	3238.9	3214.8	3202.3	3179.1	3180.9	3152.4	3147.9
17.5°	3394.2	3350.5	3296.0	3218.4	3175.6	3114.0	3088.1	3055.1	3036.4	3010.5	3022.1
20°	3481.6	3416.5	3303.2	3182.7	3091.7	2998.0	2937.3	2883.8	2879.3	2856.1	2843.7
22.5°	3594.9	3490.5	3334.4	3131.9	2985.5	2851.7	2761.6	2672.3	2663.4	2616.1	2598.3
25°	3735.0	3588.7	3350.5	3092.6	2861.5	2677.7	2535.8	2411.8	2352.0	2302.0	2290.4
27.5°	3923.3	3733.2	3382.6	3022.1	2715.2	2461.8	2258.3	2094.2	2022.8	1997.8	1971.9
30°	4143.7	3909.9	3442.4	2963.2	2542.1	2186.1	1938.0	1742.6	1665.0	1625.7	1613.2
32.5°	4468.5	4133.0	3497.7	2866.0	2332.4	1882.7	1559.7	1343.8	1296.5	1289.3	1306.3
35°	4941.4	4552.3	3578.0	2775.8	2086.1	1545.4	1188.5	1047.5	1037.7	1039.5	1039.5
37.5°	5433.9	4952.1	3816.2	2642.9	1784.5	1163.5	904.8	828.0	831.6	831.6	830.7
40°	5755.1	5273.3	3989.3	2454.6	1409.8	834.3	671.0	613.0	638.0	671.9	689.7
42.5°	6109.4	5565.1	4108.9	2237.8	980.6	589.8	488.1	508.6	581.8	633.5	640.6
45°	6410.9	5813.1	4122.3	1900.5	631.7	447.9	445.2	504.1	588.9	645.1	649.6
47.5°	6669.7	6038.9	4038.4	1515.1	460.4	418.5	445.2	519.3	596.0	630.8	634.4
50°	6920.4	6218.2	3841.2	1164.4	419.4	407.8	450.6	522.0	570.2	594.2	590.7
52.5°	7143.5	6381.5	3555.7	908.3	403.3	400.6	455.1	519.3	549.6	547.9	545.2
55°	7313.0	6429.7	3332.6	708.5	389.9	396.2	457.7	522.0	544.3	528.2	524.7
57.5°	7400.5	6369.9	3145.2	563.0	375.6	391.7	464.9	521.1	560.3	590.7	588.9
60°	7398.7	6302.1	2914.1	485.4	361.4	388.1	476.5	565.7	707.6	736.1	737.0
62.5°	7370.1	6186.1	2597.4	439.0	345.3	389.9	484.5	642.4	805.7	782.5	763.8
65°	7275.5	5968.4	2172.7	389.0	324.8	391.7	480.9	695.1	738.8	655.8	644.2
67.5°	7012.3	5547.2	1706.0	348.0	306.0	381.9	487.2	646.0	679.0	626.4	609.4
70°	6477.9	4953.9	1156.4	299.8	284.6	367.6	472.9	635.3	670.1	616.6	591.6
72.5°	5631.1	3975.9	676.3	257.9	253.4	338.2	465.8	642.4	680.8	621.0	588.9
75°	4382.8	2787.4	390.8	208.8	211.5	312.3	427.4	605.8	674.6	628.2	586.2
77.5°	2829.4	1353.6	275.7	166.9	165.1	246.3	347.1	530.0	649.6	634.4	599.6
80°	1012.7	494.3	193.6	124.0	120.5	166.9	266.8	426.5	549.6	569.3	569.3
82.5°	364.0	248.1	124.0	75.8	75.0	106.2	199.0	323.9	398.8	449.7	462.2
85°	152.6	108.0	60.7	38.4	31.2	41.0	102.6	200.8	270.4	290.9	316.8
87.5°	22.3	19.6	16.1	12.5	10.7	10.7	13.4	58.0	96.4	138.3	171.3
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)