

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: P510057

Luminaire Tested: **VERD-M-CA4-190-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-190-760-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27515 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

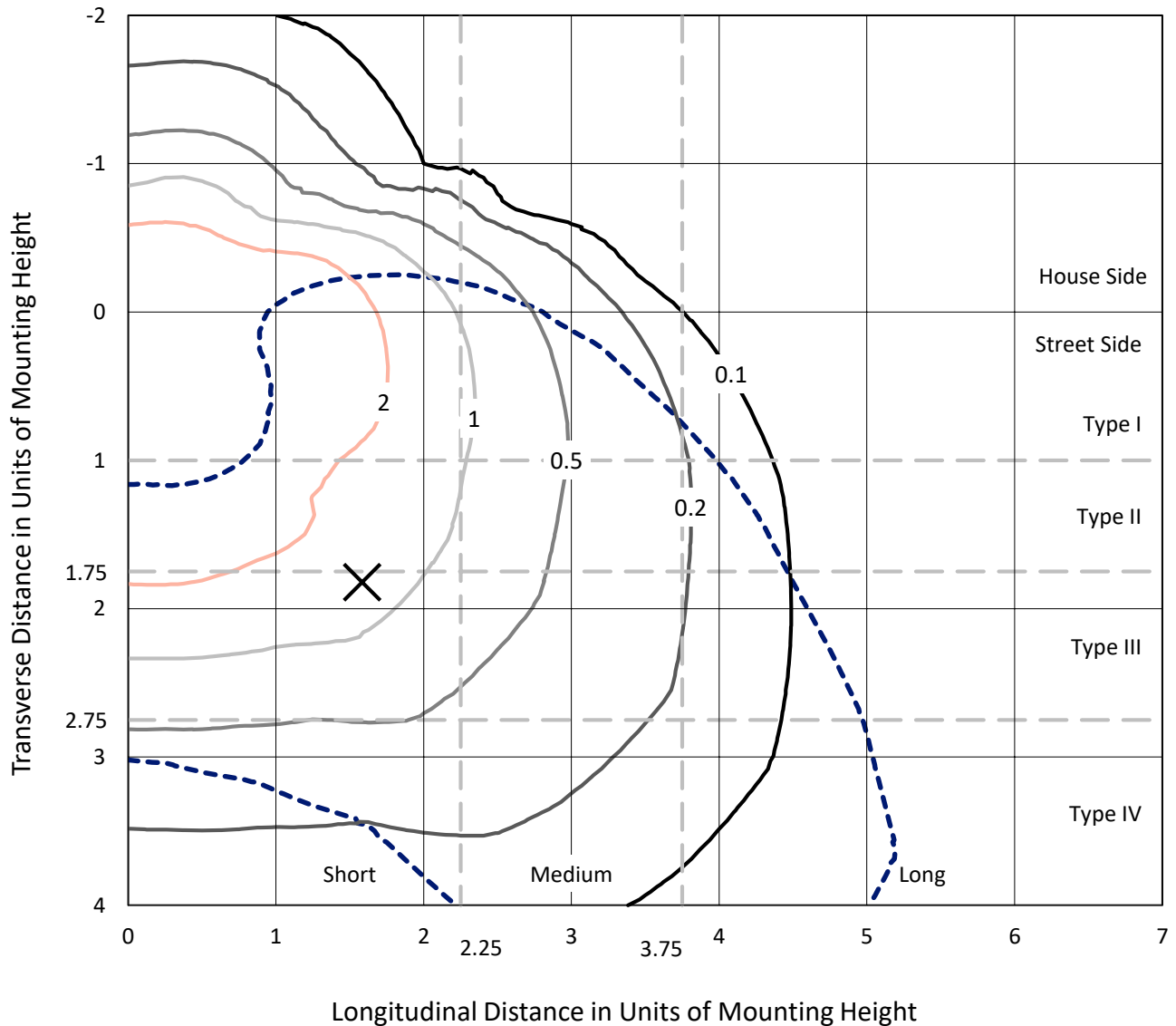
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510057
 CATALOG NUMBER: VERD-M-CA4-190-760-U-T4

Iso-Footcandle Lines of Horizontal Illumination

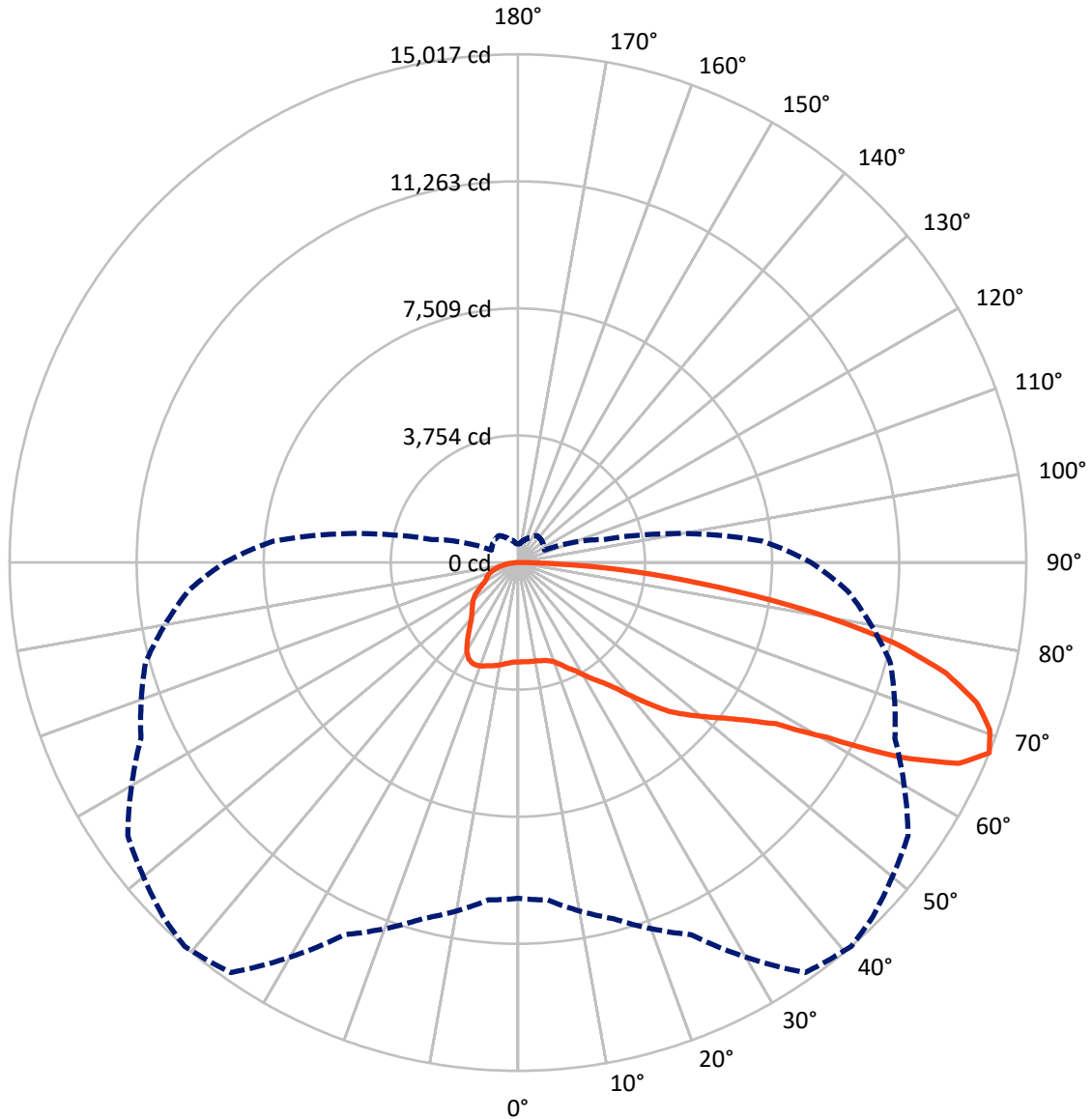
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P510057
CATALOG NUMBER: VERD-M-CA4-190-760-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: VERD-M-CA4-190-760-U-T4

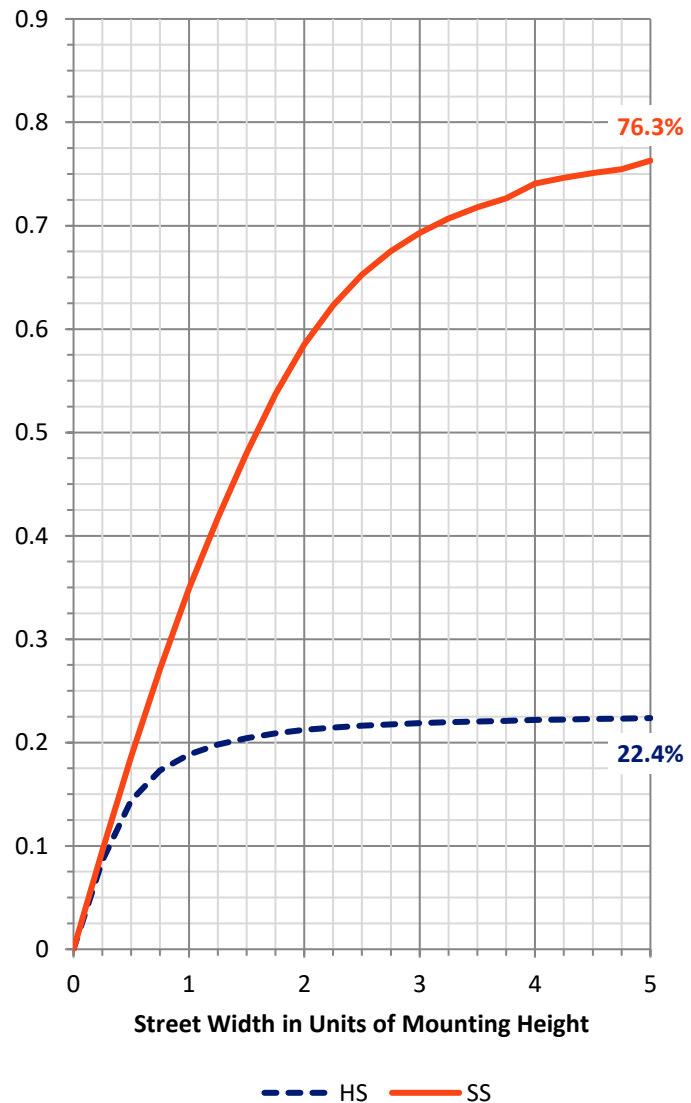
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6226.5	0.0	6226.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21288.5	0.0	21288.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	27515.0	0.0	27515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.0
10°-20°	880.4	3.2
20°-30°	1574.4	5.7
30°-40°	2468.7	9.0
40°-50°	3828.2	13.9
50°-60°	5396.9	19.6
60°-70°	6879.7	25.0
70°-80°	5148.3	18.7
80°-90°	1054.4	3.8
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°	27515.0	100.0
0°-180°	27515.0	100.0



REPORT NUMBER: P510057

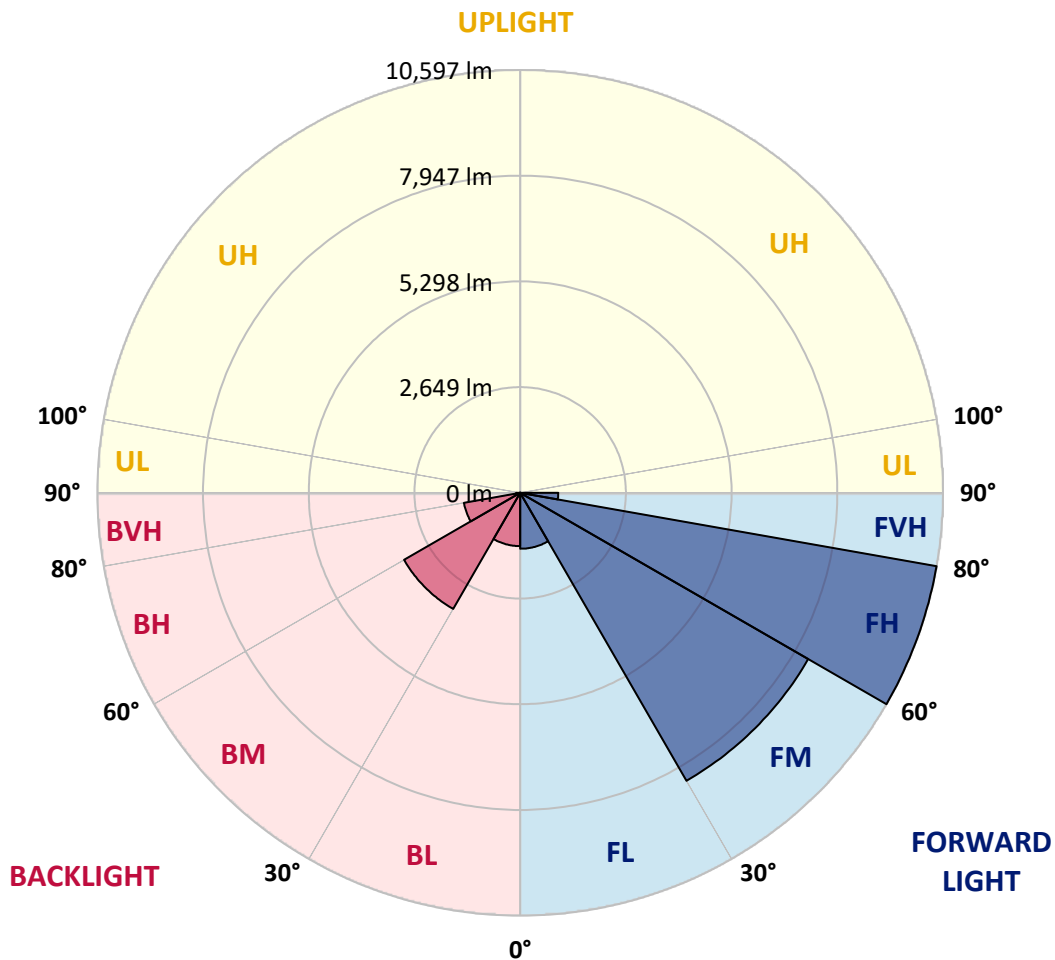
CATALOG NUMBER: VERD-M-CA4-190-760-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1401.9	5.1			
FM	(30°-60°)	8334.1	30.3			
FH	(60°-80°)	10596.6	38.5			G4/12000
FVH	(80°-90°)	955.9	3.5			G5
BL	(0°-30°)	1336.8	4.9	B3/2500		
BM	(30°-60°)	3359.7	12.2	B3/5000		
BH	(60°-80°)	1431.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	98.5	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-G5

Type IV Short





REPORT NUMBER: P510057

CATALOG NUMBER: VERD-M-CA4-190-760-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7
2.5°	2901.6	2935.2	2930.2	2924.0	2934.0	2935.2	2906.6	2917.8	2924.0	2934.0	2950.2
5°	2909.1	2942.7	2940.2	2929.0	2936.5	2940.2	2914.0	2934.0	2934.0	2937.7	2956.4
7.5°	2892.9	2925.2	2925.2	2921.5	2937.7	2952.6	2929.0	2946.4	2956.4	2966.3	2978.8
10°	2877.9	2905.3	2915.3	2912.8	2950.2	2953.9	2937.7	2980.0	2996.2	3006.2	3021.1
12.5°	2861.7	2895.4	2909.1	2922.8	2962.6	2976.3	2967.6	3011.2	3044.8	3062.2	3078.4
15°	2854.3	2891.6	2914.0	2934.0	2977.6	3002.5	3002.5	3068.5	3108.3	3130.7	3159.4
17.5°	2906.6	2945.2	2962.6	2978.8	3018.6	3052.3	3049.8	3127.0	3185.5	3220.4	3272.7
20°	3036.1	3082.2	3092.1	3098.3	3123.3	3135.7	3132.0	3215.4	3296.4	3362.4	3420.9
22.5°	3261.5	3288.9	3293.9	3269.0	3275.2	3285.1	3278.9	3325.0	3417.1	3494.4	3599.0
25°	3445.8	3489.4	3476.9	3440.8	3445.8	3459.5	3440.8	3511.8	3577.8	3678.7	3784.5
27.5°	3640.1	3672.4	3658.7	3636.3	3631.3	3621.4	3617.6	3708.6	3805.7	3885.4	4042.3
30°	3876.7	3894.1	3854.3	3844.3	3853.0	3859.2	3835.6	3951.4	4039.8	4154.4	4366.1
32.5°	4275.2	4291.4	4234.1	4080.9	4084.6	4113.3	4093.4	4239.1	4405.9	4545.4	4760.8
35°	4783.3	4783.3	4738.4	4523.0	4359.9	4361.1	4366.1	4571.6	4881.6	5194.2	5415.9
37.5°	5297.6	5315.0	5230.3	5033.6	4826.8	4717.3	4625.1	4889.1	5295.1	5992.5	6322.5
40°	5833.1	5860.5	5733.4	5552.9	5315.0	5190.5	5083.4	5244.0	5792.0	6783.2	7044.8
42.5°	6301.3	6339.9	6209.1	6018.6	5853.0	5712.3	5550.4	5615.1	6338.7	7534.2	7682.4
45°	6737.2	6758.3	6647.5	6490.6	6353.6	6276.4	6163.1	6237.8	6963.8	8268.9	8241.5
47.5°	7058.5	7089.6	6988.7	6904.0	6763.3	6717.2	6716.0	6921.5	7667.4	8854.2	8727.2
50°	7580.2	7556.6	7329.9	7226.6	7140.6	7155.6	7191.7	7546.6	8494.3	9418.3	9135.6
52.5°	8455.7	8412.1	7909.0	7693.6	7587.7	7636.3	7655.0	8113.2	9328.7	9905.2	9473.1
55°	9587.7	9448.2	9082.1	8504.3	8171.8	8217.8	8196.7	8722.2	9996.2	10369.7	9723.4
57.5°	10336.1	10466.9	10291.3	9961.3	9135.6	8985.0	8935.1	9324.9	10613.8	10814.3	9982.5
60°	10986.2	11202.9	11481.8	11270.1	11047.2	10483.1	10018.6	10009.9	11158.0	11110.7	10087.1
62.5°	11672.3	11786.9	12216.6	12347.3	12760.8	12657.4	12034.7	10876.6	11702.2	11327.4	10148.1
65°	10978.7	11131.9	11913.9	12627.5	14158.0	14307.4	14104.4	12488.0	12079.6	11438.2	10060.9
67.5°	9922.7	10007.4	10892.8	12130.6	14790.6	15017.3	14813.0	14069.6	12288.8	11389.7	9791.9
70°	8569.0	8668.6	9514.2	11202.9	14758.2	14788.1	14708.4	14215.3	12205.3	11161.8	9114.5
72.5°	6947.6	7073.4	7816.8	9570.3	14050.9	14180.4	14054.6	13926.4	11971.2	10524.2	7947.6
75°	5256.5	5423.4	6087.1	7630.1	12417.0	13069.6	13085.8	13481.8	11062.1	9022.3	5768.3
77.5°	3585.3	3744.7	4373.6	5813.1	10307.5	11349.8	11621.3	12054.7	9242.7	6667.4	3146.9
80°	2018.7	2003.7	2802.0	4153.1	7861.7	8777.0	9118.2	9100.8	6490.6	3423.4	641.3
82.5°	932.7	935.2	1433.4	2651.3	5322.5	5926.5	6064.7	5278.9	2277.7	580.3	204.2
85°	464.5	469.5	689.9	1330.0	3004.9	3471.9	3300.1	2196.7	488.2	169.4	122.0
87.5°	184.3	176.8	272.7	546.7	1084.7	1149.4	1003.7	439.6	88.4	59.8	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510057

CATALOG NUMBER: VERD-M-CA4-190-760-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7
2.5°	2946.4	2948.9	2960.1	2937.7	2943.9	2938.9	2935.2	2955.1	2953.9	2957.6	2951.4
5°	2955.1	2961.4	2972.6	2962.6	2972.6	2967.6	2971.3	2998.7	3002.5	3001.2	3001.2
7.5°	2978.8	2985.0	3006.2	2993.7	3016.2	3009.9	3011.2	3037.3	3042.3	3034.8	3032.3
10°	3028.6	3033.6	3063.5	3061.0	3069.7	3064.7	3059.7	3070.9	3068.5	3057.3	3052.3
12.5°	3085.9	3099.6	3133.2	3134.5	3145.7	3120.8	3094.6	3090.9	3083.4	3066.0	3062.2
15°	3171.8	3188.0	3239.1	3226.6	3219.1	3165.6	3122.0	3087.1	3057.3	3042.3	3028.6
17.5°	3295.1	3322.5	3393.5	3354.9	3300.1	3221.6	3145.7	3069.7	3006.2	2952.6	2931.5
20°	3452.0	3483.1	3542.9	3491.9	3408.4	3291.4	3168.1	3031.1	2892.9	2774.6	2757.1
22.5°	3638.8	3688.6	3732.2	3615.2	3491.9	3343.7	3168.1	2971.3	2742.2	2565.4	2521.8
25°	3856.7	3895.3	3881.7	3717.3	3539.2	3352.4	3133.2	2865.5	2541.7	2336.2	2301.3
27.5°	4093.4	4110.8	4004.9	3765.8	3544.2	3301.3	3034.8	2677.4	2307.6	2145.7	2112.1
30°	4384.8	4332.5	4130.7	3795.7	3494.4	3188.0	2859.2	2402.2	2117.0	1975.1	1936.5
32.5°	4698.6	4602.7	4220.4	3774.6	3384.8	2998.7	2587.8	2207.9	1990.0	1816.9	1784.5
35°	5296.3	5023.6	4351.1	3711.0	3194.2	2745.9	2325.0	2058.5	1855.5	1670.0	1640.1
37.5°	6103.3	5628.8	4534.2	3622.6	2968.8	2500.6	2129.5	1899.1	1723.5	1531.7	1484.4
40°	6730.9	6240.3	4828.1	3528.0	2760.9	2267.7	1987.5	1815.7	1636.3	1432.1	1391.0
42.5°	7328.7	6799.4	5189.2	3422.1	2546.7	2105.8	1925.3	1797.0	1612.7	1404.7	1366.1
45°	7856.7	7251.5	5500.6	3316.3	2305.1	1956.4	1879.2	1760.9	1579.1	1369.8	1332.5
47.5°	8283.8	7640.0	5770.8	3201.7	2085.9	1843.1	1819.4	1694.9	1514.3	1298.9	1254.0
50°	8669.9	7968.8	5957.6	3079.7	1871.7	1750.9	1721.0	1574.1	1386.0	1195.5	1166.9
52.5°	8907.7	8191.7	6069.7	3099.6	1668.7	1647.6	1599.0	1448.3	1274.0	1110.8	1073.5
55°	9156.8	8402.1	6068.4	2987.5	1499.4	1491.9	1445.8	1330.0	1193.0	1056.0	1033.6
57.5°	9258.9	8420.8	5955.1	2460.7	1349.9	1302.6	1292.6	1231.6	1112.1	982.6	957.6
60°	9327.4	8338.6	5740.9	1679.9	1161.9	1128.3	1176.8	1135.7	1027.4	891.6	866.7
62.5°	9260.2	8249.0	5179.3	1212.9	1018.7	1037.3	1083.4	1038.6	925.3	802.0	780.8
65°	9099.5	7906.5	4089.6	945.2	955.2	996.3	1032.4	957.6	749.7	627.6	615.2
67.5°	8661.2	7255.2	2631.4	866.7	919.0	961.4	973.8	810.7	678.7	561.6	547.9
70°	7738.4	5824.3	1013.7	816.9	882.9	901.6	850.6	743.5	623.9	523.0	510.6
72.5°	6053.5	3824.4	585.3	747.2	805.7	788.3	789.5	667.5	562.9	467.0	457.0
75°	3762.1	1384.8	520.5	665.0	682.4	714.8	673.7	579.1	484.4	427.1	414.7
77.5°	1244.1	393.5	481.9	572.8	611.5	587.8	564.1	494.4	414.7	369.9	363.6
80°	301.4	295.1	432.1	448.3	479.4	439.6	437.1	411.0	349.9	323.8	317.6
82.5°	185.6	211.7	343.7	279.0	320.0	323.8	368.6	338.7	255.3	265.3	256.5
85°	114.6	163.1	180.6	134.5	135.7	181.8	220.4	204.2	153.2	144.5	143.2
87.5°	38.6	33.6	38.6	28.6	38.6	66.0	99.6	94.6	63.5	43.6	41.1
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)