

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: P510137

Luminaire Tested: **VERD-M-CA4-210-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510137
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-CA4-210-740-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 960mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30064 lumens
Efficiency: N/A
Efficacy: 140.7 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

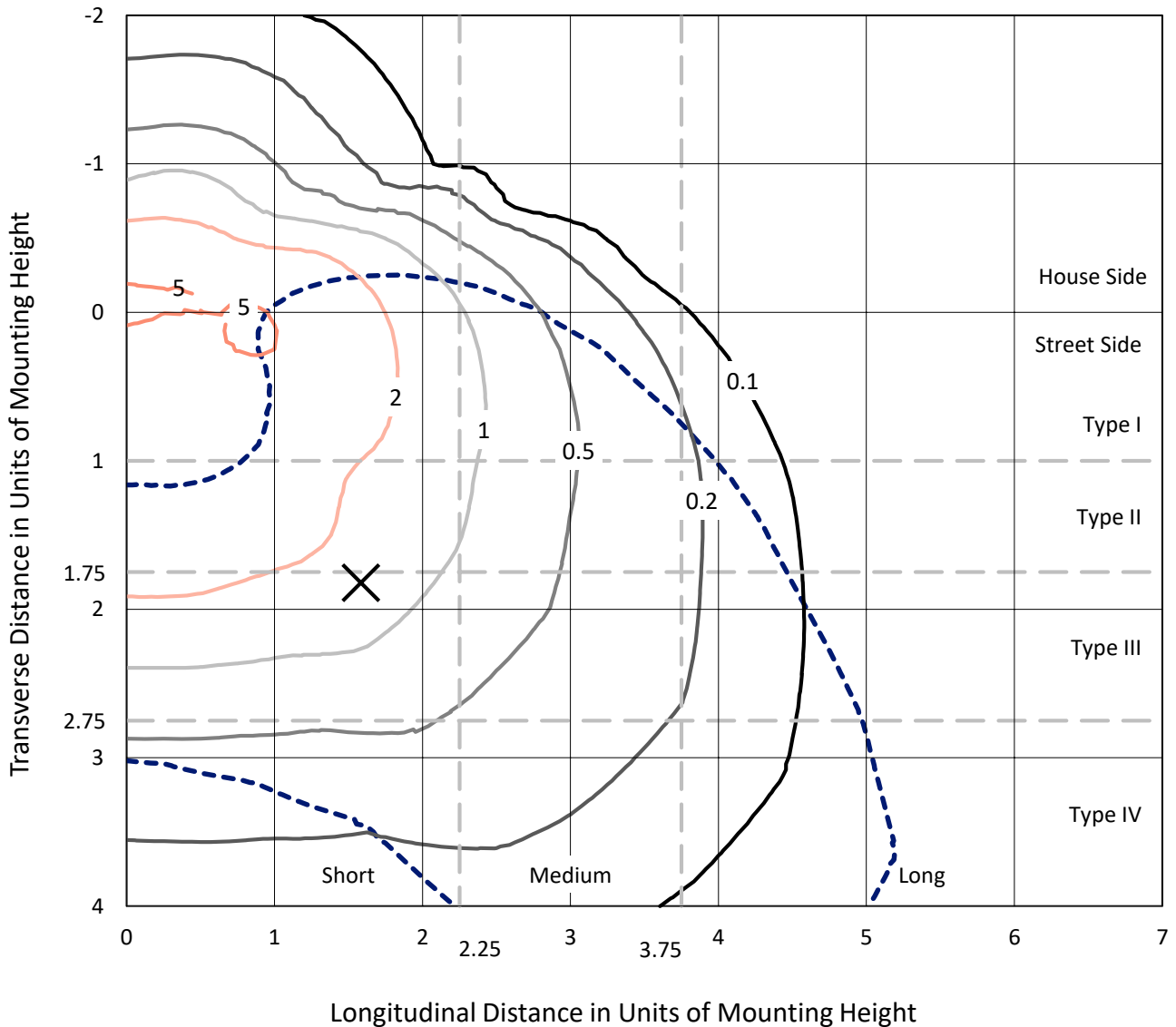
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510137
 CATALOG NUMBER: VERD-M-CA4-210-740-U-T4

Iso-Footcandle Lines of Horizontal Illumination

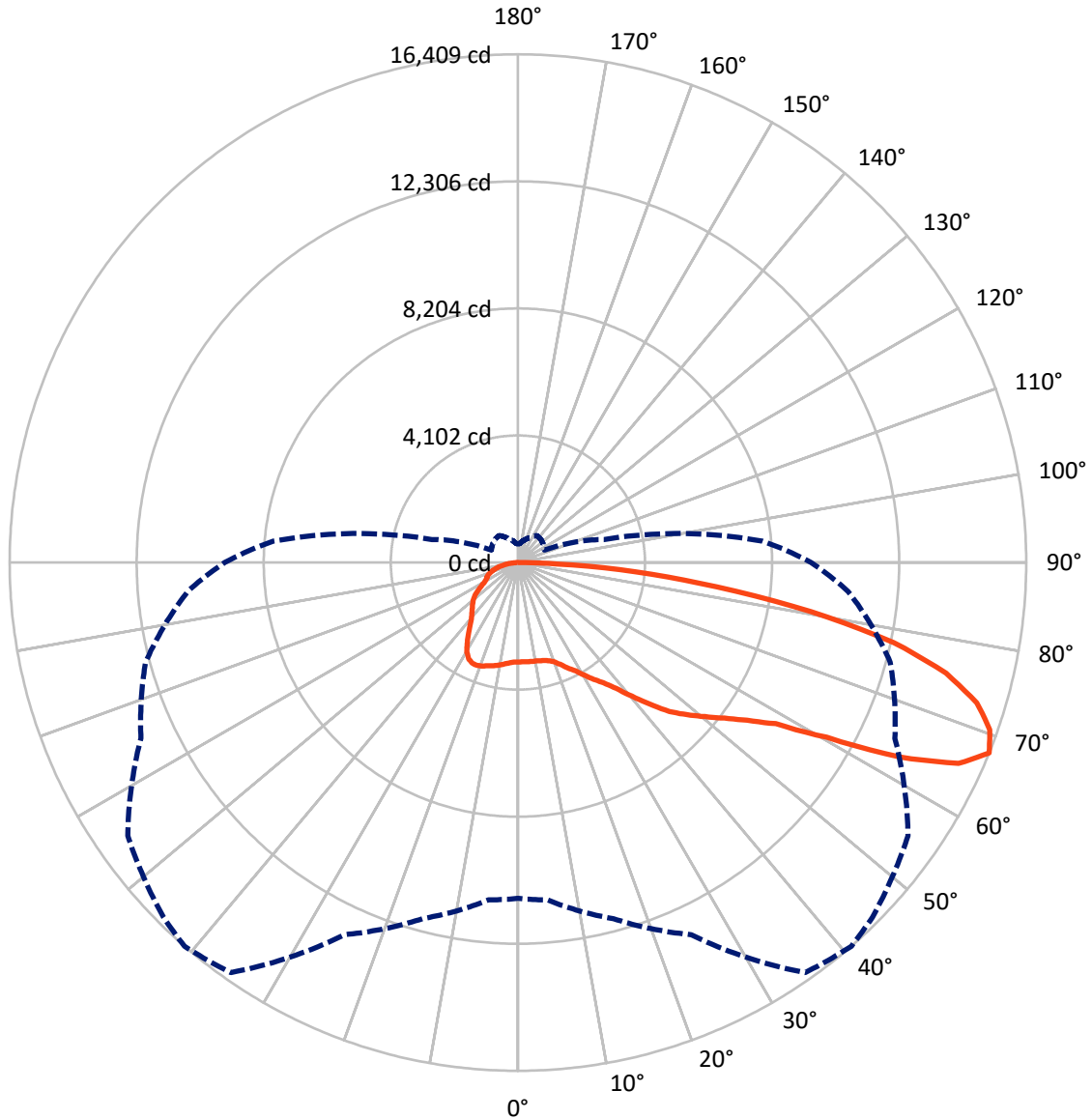
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P510137
CATALOG NUMBER: VERD-M-CA4-210-740-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510137

CATALOG NUMBER: VERD-M-CA4-210-740-U-T4

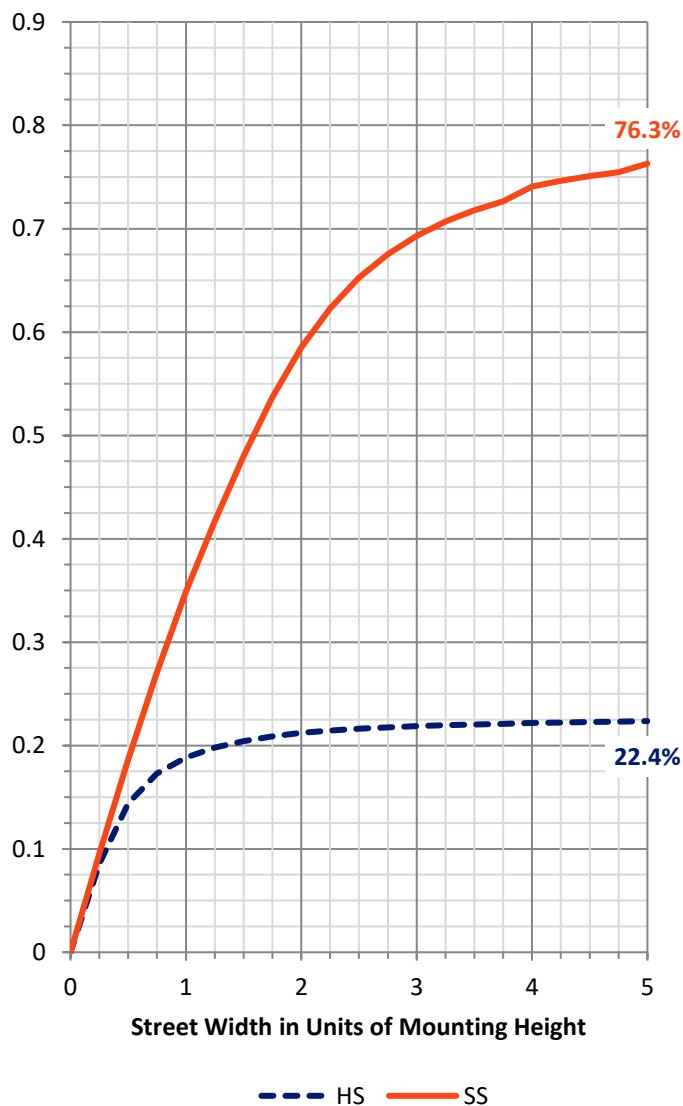
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6803.3	0.0	6803.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23260.7	0.0	23260.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	30064.0	0.0	30064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.0
10°-20°	962.0	3.2
20°-30°	1720.3	5.7
30°-40°	2697.4	9.0
40°-50°	4182.9	13.9
50°-60°	5896.8	19.6
60°-70°	7517.1	25.0
70°-80°	5625.3	18.7
80°-90°	1152.1	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°	30064.0	100.0
0°-180°	30064.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510137

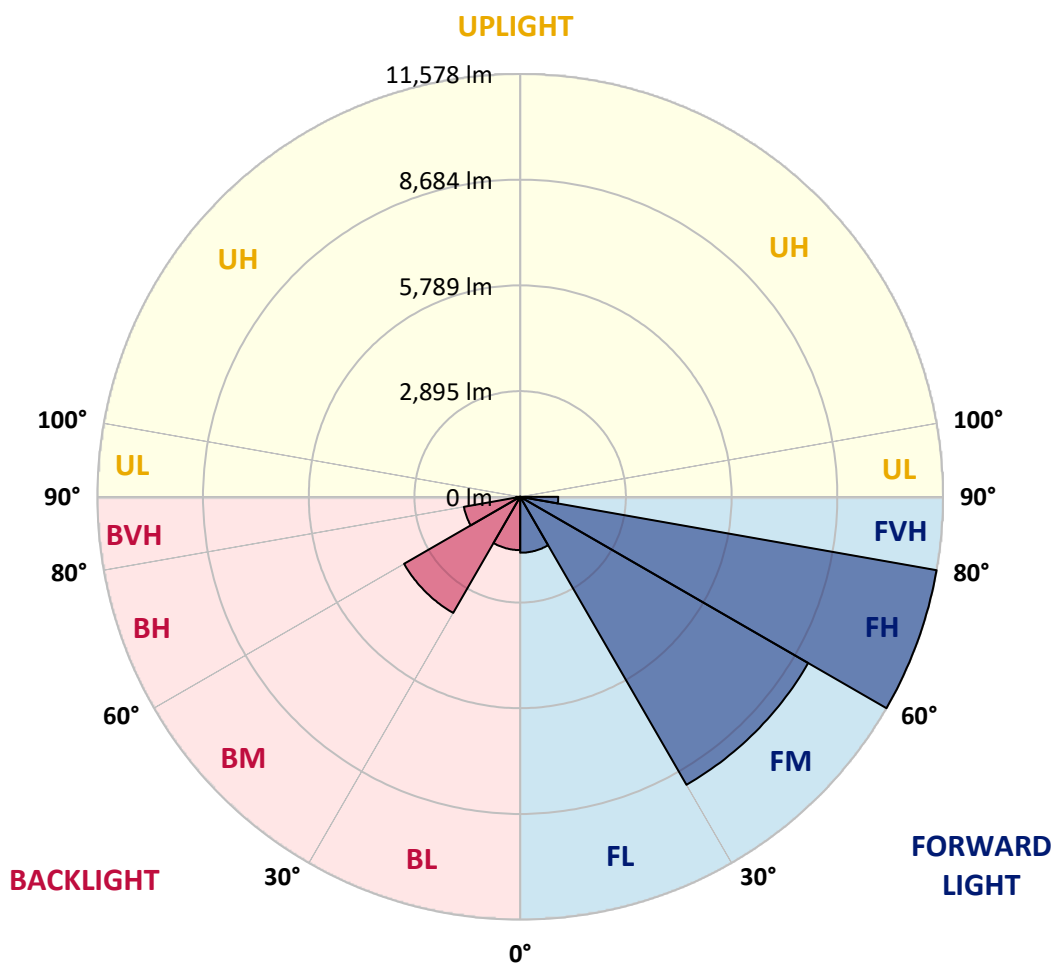
CATALOG NUMBER: VERD-M-CA4-210-740-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.8	5.1			
FM	(30°-60°)	9106.1	30.3			
FH	(60°-80°)	11578.3	38.5			G4/12000
FVH	(80°-90°)	1044.5	3.5			G5
BL	(0°-30°)	1460.6	4.9	B3/2500		
BM	(30°-60°)	3671.0	12.2	B3/5000		
BH	(60°-80°)	1564.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	107.6	0.4			G2/225
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: P510137

CATALOG NUMBER: VERD-M-CA4-210-740-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9
2.5°	3170.4	3207.1	3201.7	3194.9	3205.8	3207.1	3175.8	3188.1	3194.9	3205.8	3223.5
5°	3178.6	3215.3	3212.6	3200.3	3208.5	3212.6	3184.0	3205.8	3205.8	3209.9	3230.3
7.5°	3160.9	3196.2	3196.2	3192.2	3209.9	3226.2	3200.3	3219.4	3230.3	3241.1	3254.8
10°	3144.5	3174.5	3185.4	3182.6	3223.5	3227.5	3209.9	3256.1	3273.8	3284.7	3301.0
12.5°	3126.8	3163.6	3178.6	3193.5	3237.1	3252.0	3242.5	3290.1	3326.9	3345.9	3363.6
15°	3118.7	3159.5	3184.0	3205.8	3253.4	3280.6	3280.6	3352.7	3396.3	3420.8	3452.1
17.5°	3175.8	3218.0	3237.1	3254.8	3298.3	3335.0	3332.3	3416.7	3480.6	3518.7	3575.9
20°	3317.3	3367.7	3378.6	3385.4	3412.6	3426.2	3422.1	3513.3	3601.7	3673.8	3737.8
22.5°	3563.6	3593.6	3599.0	3571.8	3578.6	3589.5	3582.7	3633.0	3733.7	3818.1	3932.4
25°	3765.0	3812.6	3799.0	3759.6	3765.0	3780.0	3759.6	3837.1	3909.2	4019.5	4135.1
27.5°	3977.3	4012.7	3997.7	3973.2	3967.8	3956.9	3952.8	4052.1	4158.2	4245.3	4416.8
30°	4235.8	4254.9	4211.3	4200.4	4210.0	4216.8	4190.9	4317.4	4414.1	4539.2	4770.6
32.5°	4671.2	4688.9	4626.3	4459.0	4463.0	4494.3	4472.6	4631.8	4814.1	4966.5	5201.9
35°	5226.4	5226.4	5177.4	4942.0	4763.7	4765.1	4770.6	4995.1	5333.9	5675.4	5917.6
37.5°	5788.3	5807.4	5714.9	5499.9	5274.0	5154.3	5053.6	5342.0	5785.6	6547.6	6908.2
40°	6373.4	6403.4	6264.6	6067.3	5807.4	5671.3	5554.3	5729.8	6328.5	7411.6	7697.4
42.5°	6885.1	6927.2	6784.4	6576.2	6395.2	6241.5	6064.6	6135.3	6925.9	8232.1	8394.1
45°	7361.3	7384.4	7263.3	7091.9	6942.2	6857.8	6734.0	6815.7	7608.9	9034.9	9005.0
47.5°	7712.3	7746.4	7636.2	7543.6	7389.9	7339.5	7338.2	7562.7	8377.7	9674.5	9535.7
50°	8282.5	8256.6	8009.0	7896.0	7802.2	7818.5	7857.9	8245.7	9281.2	10290.8	9982.0
52.5°	9239.0	9191.4	8641.7	8406.3	8290.6	8343.7	8364.1	8864.8	10192.9	10822.9	10350.7
55°	10475.9	10323.5	9923.5	9292.1	8928.8	8979.1	8956.0	9530.2	10922.2	11330.4	10624.2
57.5°	11293.7	11436.5	11244.7	10884.1	9982.0	9817.3	9762.9	10188.8	11597.1	11816.2	10907.2
60°	12003.9	12240.7	12545.5	12314.2	12070.6	11454.2	10946.7	10937.2	12191.7	12140.0	11021.5
62.5°	12753.7	12878.9	13348.3	13491.2	13942.9	13830.0	13149.6	11884.2	12786.3	12376.8	11088.2
65°	11995.8	12163.1	13017.7	13797.3	15469.6	15632.9	15411.1	13644.9	13198.6	12497.9	10993.0
67.5°	10841.9	10934.4	11901.9	13254.4	16160.8	16408.5	16185.3	15373.0	13427.2	12444.8	10699.0
70°	9362.9	9471.7	10395.6	12240.7	16125.4	16158.1	16071.0	15532.2	13336.1	12195.8	9958.8
72.5°	7591.2	7728.7	8541.0	10456.8	15352.6	15494.1	15356.7	15216.5	13080.2	11499.1	8683.9
75°	5743.4	5925.8	6651.0	8336.9	13567.4	14280.4	14298.1	14730.8	12086.9	9858.1	6302.7
77.5°	3917.4	4091.6	4778.7	6351.7	11262.4	12401.3	12697.9	13171.4	10099.0	7285.1	3438.4
80°	2205.7	2189.3	3061.5	4537.9	8590.0	9590.1	9962.9	9943.9	7091.9	3740.5	700.8
82.5°	1019.2	1021.9	1566.1	2896.9	5815.6	6475.5	6626.5	5767.9	2488.7	634.1	223.2
85°	507.5	513.0	753.8	1453.2	3283.3	3793.6	3605.8	2400.2	533.4	185.1	133.3
87.5°	201.4	193.2	298.0	597.3	1185.2	1255.9	1096.7	480.3	96.6	65.3	44.9
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: P510137

CATALOG NUMBER: VERD-M-CA4-210-740-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9	3209.9
2.5°	3219.4	3222.1	3234.3	3209.9	3216.7	3211.2	3207.1	3228.9	3227.5	3231.6	3224.8
5°	3228.9	3235.7	3247.9	3237.1	3247.9	3242.5	3246.6	3276.5	3280.6	3279.2	3279.2
7.5°	3254.8	3261.6	3284.7	3271.1	3295.6	3288.8	3290.1	3318.7	3324.1	3316.0	3313.3
10°	3309.2	3314.6	3347.3	3344.6	3354.1	3348.6	3343.2	3355.4	3352.7	3340.5	3335.0
12.5°	3371.8	3386.7	3423.5	3424.8	3437.1	3409.9	3381.3	3377.2	3369.1	3350.0	3345.9
15°	3465.7	3483.3	3539.1	3525.5	3517.4	3458.9	3411.2	3373.1	3340.5	3324.1	3309.2
17.5°	3600.4	3630.3	3707.9	3665.7	3605.8	3520.1	3437.1	3354.1	3284.7	3226.2	3203.0
20°	3771.8	3805.8	3871.1	3815.4	3724.2	3596.3	3461.6	3311.9	3160.9	3031.6	3012.6
22.5°	3975.9	4030.3	4078.0	3950.1	3815.4	3653.4	3461.6	3246.6	2996.2	2803.0	2755.4
25°	4214.0	4256.2	4241.2	4061.6	3867.1	3663.0	3423.5	3130.9	2777.2	2552.6	2514.5
27.5°	4472.6	4491.6	4376.0	4114.7	3872.5	3607.2	3316.0	2925.5	2521.3	2344.5	2307.7
30°	4791.0	4733.8	4513.4	4147.4	3818.1	3483.3	3124.1	2624.8	2313.2	2158.0	2115.9
32.5°	5133.9	5029.1	4611.4	4124.2	3698.3	3276.5	2827.5	2412.5	2174.4	1985.2	1949.9
35°	5787.0	5489.0	4754.2	4054.8	3490.2	3000.3	2540.4	2249.2	2027.4	1824.7	1792.0
37.5°	6668.7	6150.3	4954.2	3958.2	3243.9	2732.3	2326.8	2075.0	1883.2	1673.6	1621.9
40°	7354.5	6818.4	5275.4	3854.8	3016.6	2477.8	2171.6	1983.9	1787.9	1564.8	1519.9
42.5°	8007.6	7429.3	5670.0	3739.2	2782.6	2300.9	2103.6	1963.5	1762.1	1534.8	1492.7
45°	8584.5	7923.3	6010.1	3623.5	2518.6	2137.6	2053.3	1924.0	1725.3	1496.8	1455.9
47.5°	9051.3	8347.8	6305.4	3498.3	2279.1	2013.8	1988.0	1851.9	1654.6	1419.2	1370.2
50°	9473.1	8707.0	6509.5	3365.0	2045.1	1913.1	1880.5	1719.9	1514.4	1306.3	1275.0
52.5°	9733.0	8950.6	6632.0	3386.7	1823.3	1800.2	1747.1	1582.5	1392.0	1213.7	1172.9
55°	10005.1	9180.5	6630.6	3264.3	1638.3	1630.1	1579.8	1453.2	1303.5	1153.9	1129.4
57.5°	10116.7	9200.9	6506.8	2688.7	1475.0	1423.3	1412.4	1345.7	1215.1	1073.6	1046.4
60°	10191.5	9111.1	6272.7	1835.6	1269.5	1232.8	1285.8	1240.9	1122.6	974.2	947.0
62.5°	10118.0	9013.2	5659.1	1325.3	1113.0	1133.4	1183.8	1134.8	1011.0	876.3	853.1
65°	9942.5	8639.0	4468.5	1032.8	1043.6	1088.5	1128.0	1046.4	819.1	685.8	672.2
67.5°	9463.5	7927.3	2875.1	947.0	1004.2	1050.4	1064.1	885.8	741.6	613.7	598.7
70°	8455.3	6363.9	1107.6	892.6	964.7	985.1	929.3	812.3	681.7	571.5	557.9
72.5°	6614.3	4178.7	639.5	816.4	880.4	861.3	862.7	729.3	615.0	510.3	499.4
75°	4110.6	1513.1	568.8	726.6	745.7	781.0	736.1	632.7	529.3	466.7	453.1
77.5°	1359.3	430.0	526.6	625.9	668.1	642.2	616.4	540.2	453.1	404.1	397.3
80°	329.3	322.5	472.2	489.8	523.9	480.3	477.6	449.0	382.4	353.8	347.0
82.5°	202.7	231.3	375.5	304.8	349.7	353.8	402.8	370.1	278.9	289.8	280.3
85°	125.2	178.2	197.3	147.0	148.3	198.7	240.8	223.2	167.4	157.8	156.5
87.5°	42.2	36.7	42.2	31.3	42.2	72.1	108.9	103.4	69.4	47.6	44.9
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)