

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: P553531

Luminaire Tested: **VERD-G-CA2-140-750-U-T3**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-750-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1290mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20862 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

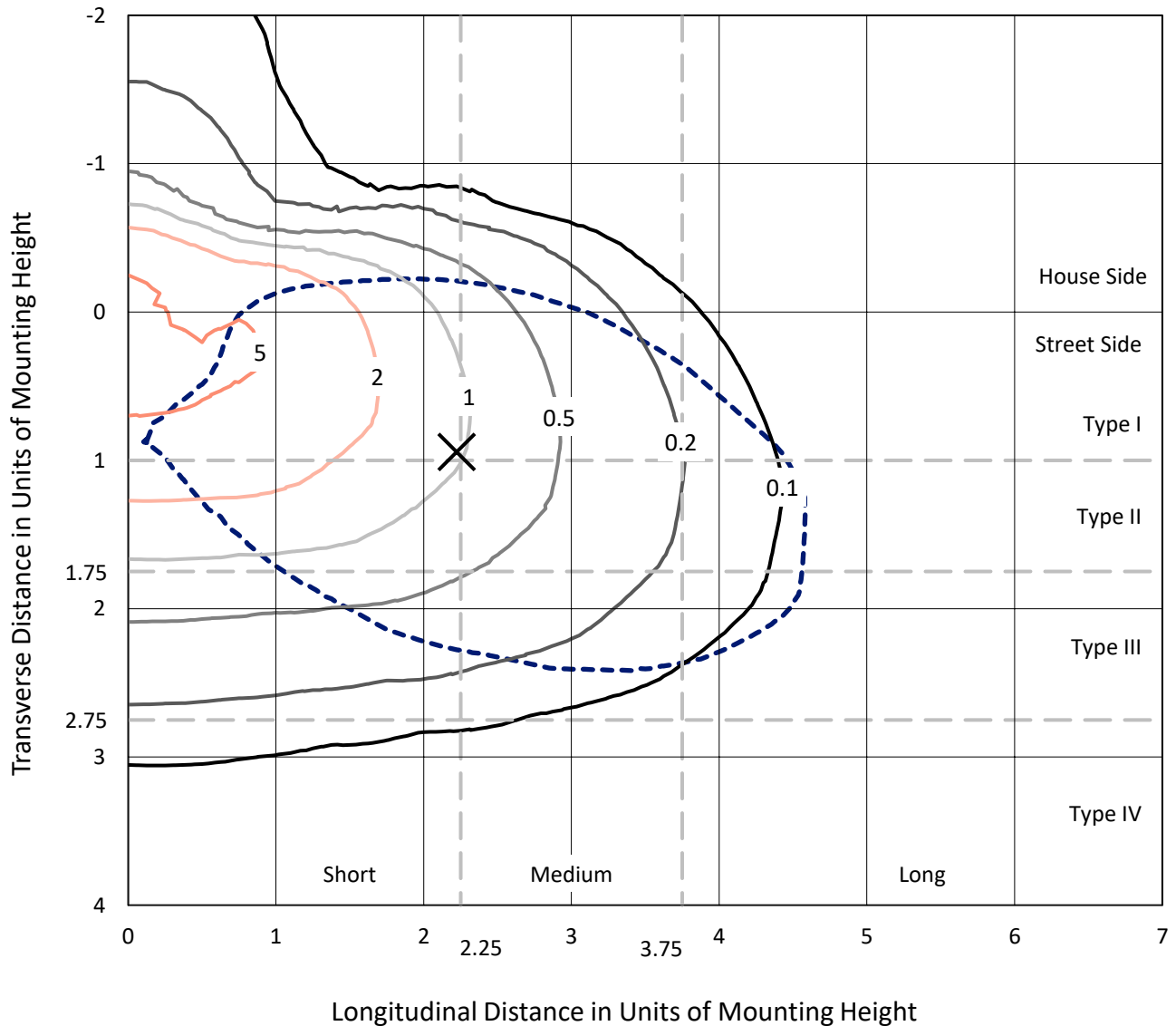
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553531
 CATALOG NUMBER: VERD-G-CA2-140-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

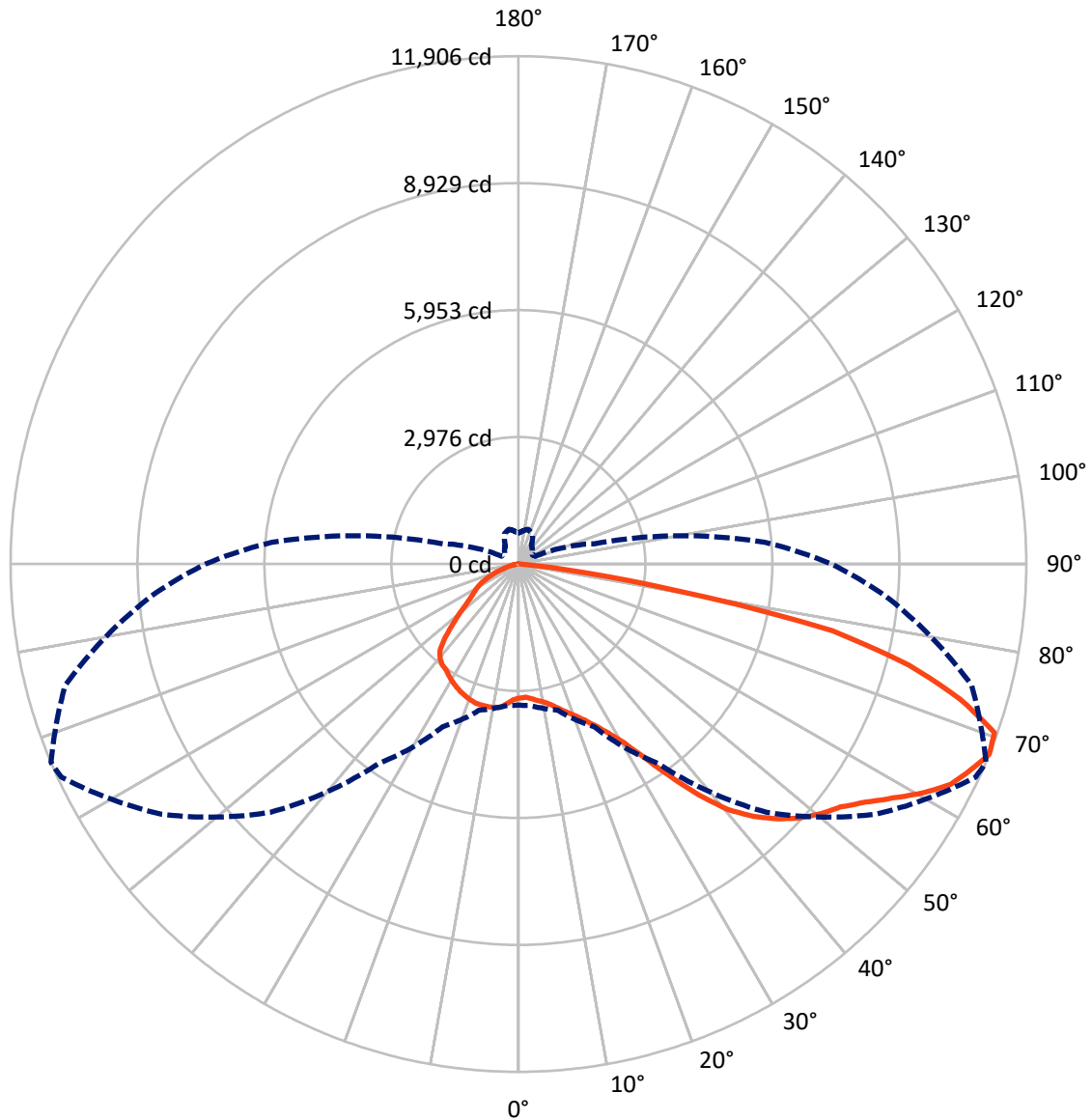
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P553531
CATALOG NUMBER: VERD-G-CA2-140-750-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P553531

CATALOG NUMBER: VERD-G-CA2-140-750-U-T3

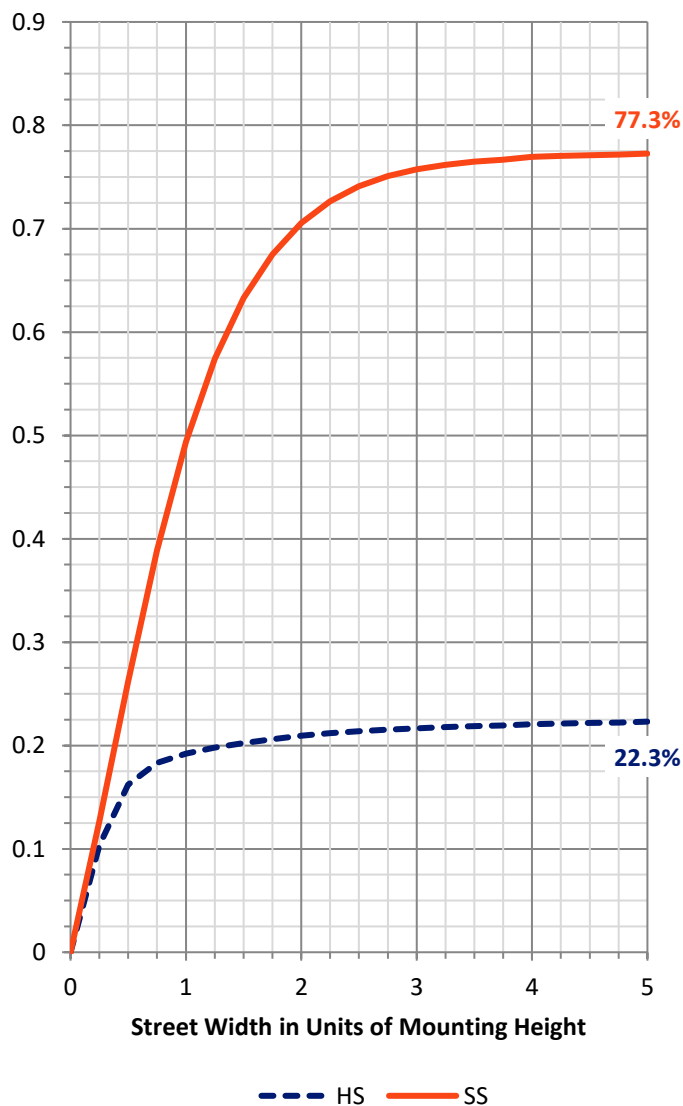
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4733.7	0.0	4733.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16128.3	0.0	16128.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	20862.0	0.0	20862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	1.5
10°-20°	1008.4	4.8
20°-30°	1729.5	8.3
30°-40°	2573.8	12.3
40°-50°	3519.0	16.9
50°-60°	4226.9	20.3
60°-70°	4484.2	21.5
70°-80°	2739.3	13.1
80°-90°	262.3	1.3
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°	20862.0	100.0
0°-180°	20862.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553531

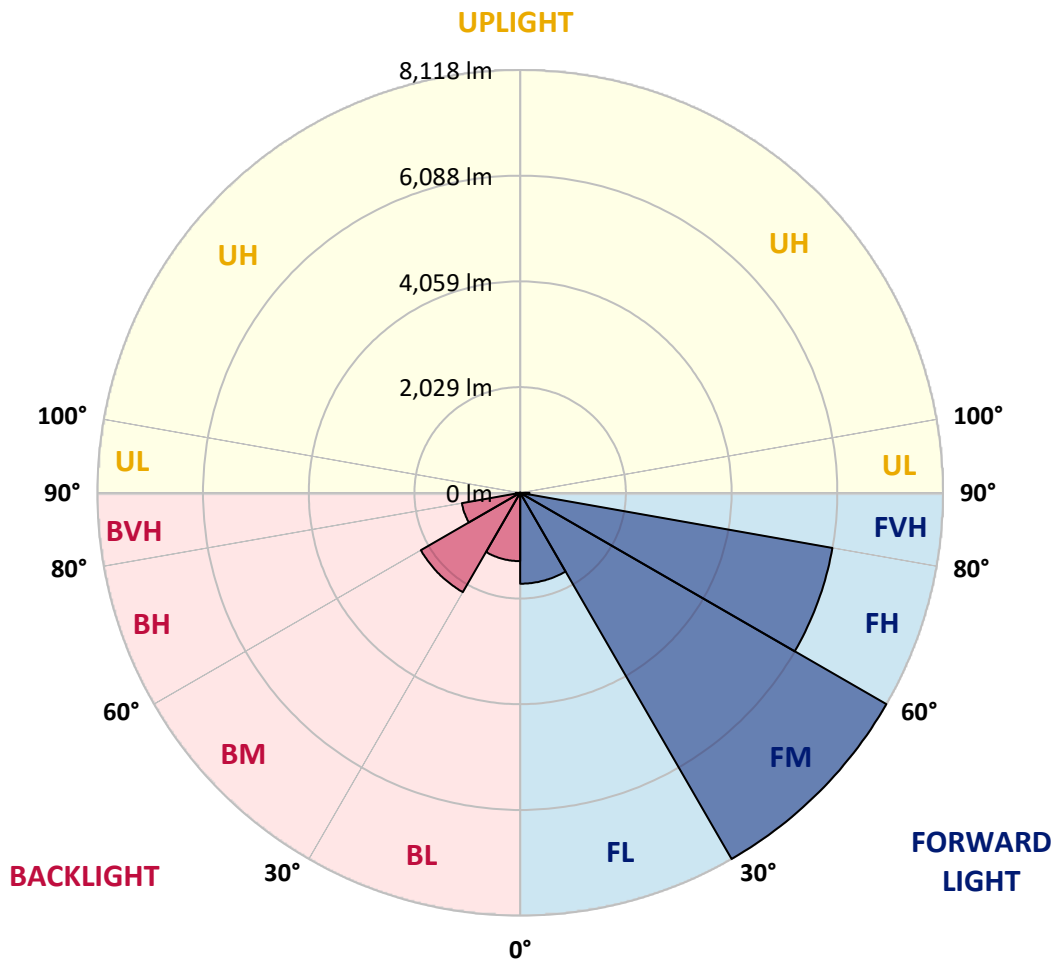
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.9	8.4			
FM (30°-60°)	8117.8	38.9			
FH (60°-80°)	6086.9	29.2			G3/7500
FVH (80°-90°)	178.6	0.9			G2/225
BL (0°-30°)	1311.5	6.3	B3/2500		
BM (30°-60°)	2201.9	10.6	B2/2500		
BH (60°-80°)	1136.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	83.7	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 Short





REPORT NUMBER: P553531

CATALOG NUMBER: VERD-G-CA2-140-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4
2.5°	3195.2	3210.4	3185.5	3168.9	3150.9	3160.6	3137.1	3137.1	3126.1	3144.0	3133.0
5°	3298.8	3312.6	3269.8	3235.3	3232.5	3203.5	3200.7	3186.9	3170.3	3185.5	3200.7
7.5°	3437.0	3431.5	3401.1	3361.0	3320.9	3304.4	3276.7	3256.0	3231.1	3244.9	3249.1
10°	3605.6	3596.0	3555.9	3492.3	3460.5	3414.9	3345.8	3307.1	3289.1	3303.0	3307.1
12.5°	3785.3	3772.8	3734.2	3663.7	3608.4	3536.5	3457.8	3395.6	3383.1	3369.3	3392.8
15°	3987.1	3964.9	3931.8	3875.1	3789.4	3695.5	3587.7	3528.2	3510.3	3486.8	3475.7
17.5°	4205.4	4202.6	4159.8	4097.6	4010.5	3880.6	3742.4	3649.8	3649.8	3640.2	3580.7
20°	4440.4	4429.3	4386.5	4351.9	4228.9	4092.1	3923.5	3806.0	3793.6	3774.2	3676.1
22.5°	4676.7	4678.1	4622.8	4596.5	4505.3	4329.8	4117.0	3999.5	3974.6	3948.4	3778.4
25°	4890.9	4893.6	4877.1	4828.7	4754.1	4592.4	4369.9	4213.7	4199.9	4164.0	3958.0
27.5°	5107.9	5142.4	5094.0	5099.6	5066.4	4881.2	4658.7	4469.4	4483.2	4404.4	4122.5
30°	5364.9	5377.3	5353.8	5360.8	5340.0	5218.4	5002.8	4849.4	4849.4	4759.6	4401.7
32.5°	5570.8	5559.8	5561.1	5633.0	5642.7	5576.4	5399.5	5349.7	5392.5	5381.5	5059.5
35°	5673.1	5692.4	5746.3	5910.8	5990.9	5950.9	5930.1	5996.5	6104.3	6173.4	5778.1
37.5°	5804.4	5863.8	5931.5	6115.3	6263.2	6373.8	6487.1	6705.4	6860.2	6950.1	6460.8
40°	5939.8	5945.3	6080.8	6308.8	6597.6	6773.2	7042.6	7418.5	7570.6	7502.9	6839.5
42.5°	5834.8	5848.6	6036.6	6442.9	6804.9	7254.1	7545.7	7979.6	8084.7	7878.8	7230.6
45°	5699.3	5725.6	5963.3	6442.9	7033.0	7694.9	8028.0	8511.7	8524.1	8246.4	7466.9
47.5°	5579.1	5601.2	5851.4	6393.1	7247.2	8081.9	8416.4	8810.2	8894.5	8546.3	7780.6
50°	5418.8	5474.1	5720.1	6348.9	7346.7	8351.4	8760.5	9169.5	9198.6	8829.6	8015.6
52.5°	5244.7	5293.0	5595.7	6266.0	7473.8	8573.9	8988.5	9515.0	9461.1	9208.2	8279.5
55°	5009.7	5052.6	5402.2	6133.3	7489.0	8694.1	9153.0	9835.7	9856.4	9523.3	8535.2
57.5°	4740.2	4812.1	5130.0	5887.3	7349.5	8730.1	9436.3	10269.6	10349.8	9913.1	8739.7
60°	4448.6	4505.3	4866.0	5626.1	7164.3	8865.5	9824.6	10832.1	10895.6	10253.0	8822.7
62.5°	4150.1	4197.1	4495.6	5233.6	6824.3	8891.8	10163.2	11397.3	11376.6	10555.7	8937.4
65°	3778.4	3782.5	4064.4	4759.6	6351.6	8703.8	10337.3	11626.7	11647.5	10830.7	8806.1
67.5°	3305.7	3332.0	3546.2	4206.8	5707.6	8231.2	10226.8	11824.4	11905.9	11000.7	8638.9
70°	2632.7	2647.9	2871.8	3486.8	4852.2	7500.1	10016.7	11854.8	11836.8	10780.9	8178.6
72.5°	1872.6	1930.6	2081.3	2451.7	3723.1	6138.8	9067.3	10916.4	10833.5	9932.4	7295.6
75°	1203.7	1209.2	1359.9	1601.7	2179.4	4351.9	7558.1	9410.0	9444.6	8615.4	5939.8
77.5°	398.0	449.1	498.9	675.8	903.8	1811.8	5102.3	7417.2	7522.2	6787.0	4053.4
80°	175.5	175.5	297.1	382.8	487.8	776.7	2035.7	3356.9	3678.9	3164.8	1561.7
82.5°	128.5	131.3	199.0	228.0	192.1	323.4	731.1	1075.2	1140.1	1024.1	620.5
85°	73.2	76.0	85.7	98.1	81.5	131.3	161.7	165.8	167.2	145.1	113.3
87.5°	33.2	33.2	30.4	26.3	15.2	9.7	9.7	6.9	8.3	6.9	5.5
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: P553531

CATALOG NUMBER: VERD-G-CA2-140-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4	3145.4
2.5°	3128.8	3142.7	3173.1	3178.6	3192.4	3213.1	3239.4	3251.8	3293.3	3312.6	3318.2
5°	3203.5	3210.4	3262.9	3280.9	3343.0	3374.8	3402.5	3421.8	3473.0	3485.4	3507.5
7.5°	3260.1	3283.6	3347.2	3387.3	3426.0	3459.1	3456.4	3502.0	3528.2	3549.0	3557.3
10°	3318.2	3330.6	3395.6	3413.5	3442.5	3467.4	3474.3	3486.8	3493.7	3522.7	3532.4
12.5°	3408.0	3399.7	3408.0	3423.2	3446.7	3441.2	3456.4	3438.4	3448.1	3485.4	3471.6
15°	3474.3	3455.0	3419.1	3420.4	3405.2	3398.3	3376.2	3361.0	3359.6	3367.9	3381.7
17.5°	3549.0	3492.3	3426.0	3408.0	3351.3	3296.1	3257.4	3215.9	3209.0	3217.3	3207.6
20°	3613.9	3537.9	3423.2	3366.5	3256.0	3156.5	3099.8	3037.6	3034.9	3029.3	3018.3
22.5°	3692.7	3597.3	3421.8	3307.1	3175.8	3015.5	2898.0	2851.1	2794.4	2816.5	2813.7
25°	3810.2	3691.3	3434.3	3243.5	3030.7	2840.0	2689.4	2585.7	2529.1	2516.6	2522.1
27.5°	3955.3	3797.7	3441.2	3163.4	2898.0	2625.8	2386.7	2230.5	2196.0	2150.4	2154.5
30°	4166.7	3942.8	3474.3	3074.9	2703.2	2352.2	2067.5	1864.3	1806.3	1815.9	1818.7
32.5°	4665.6	4241.3	3497.8	2972.7	2489.0	2049.5	1677.7	1474.6	1429.0	1445.6	1455.2
35°	5320.7	4813.5	3626.4	2841.4	2245.7	1695.7	1286.6	1171.9	1181.6	1213.4	1221.7
37.5°	5970.2	5420.2	3909.7	2726.7	1934.8	1297.7	1026.8	959.1	1015.8	1046.2	1055.8
40°	6369.6	5823.7	4222.0	2549.8	1539.5	953.6	782.2	743.5	808.5	878.9	913.5
42.5°	6773.2	6154.0	4425.1	2334.2	1101.5	693.8	581.8	613.6	720.0	790.5	807.1
45°	7030.2	6324.0	4444.5	1991.5	733.8	537.6	530.7	598.4	707.6	764.2	773.9
47.5°	7280.4	6552.0	4363.0	1594.8	552.8	511.3	526.5	605.3	713.1	776.7	775.3
50°	7529.1	6775.9	4186.1	1265.9	522.4	494.8	534.8	619.1	722.8	771.2	771.2
52.5°	7681.1	6886.5	3830.9	1007.5	503.0	485.1	539.0	624.7	713.1	740.7	736.6
55°	7863.6	6912.7	3591.8	838.9	482.3	478.2	547.3	639.9	711.7	714.5	704.8
57.5°	7958.9	6847.8	3396.9	713.1	464.4	480.9	556.9	644.0	751.8	785.0	790.5
60°	7917.5	6769.0	3175.8	634.3	447.8	476.8	554.2	675.8	876.2	945.3	932.8
62.5°	7877.4	6621.1	2804.1	569.4	429.8	479.6	551.4	749.0	1029.6	957.7	919.0
65°	7732.3	6314.3	2320.4	507.2	407.7	480.9	545.9	827.8	1054.5	967.4	901.1
67.5°	7334.2	5803.0	1835.3	440.9	381.4	461.6	533.5	778.1	844.4	760.1	724.2
70°	6741.4	5062.2	1259.0	381.4	349.6	438.1	525.2	736.6	793.3	733.8	688.2
72.5°	5785.0	3977.4	697.9	319.2	306.8	409.1	523.8	726.9	798.8	628.8	579.1
75°	4398.9	2638.2	453.3	250.1	251.5	364.8	498.9	693.8	773.9	591.5	523.8
77.5°	2591.2	1111.1	316.5	178.3	196.2	283.3	443.6	664.7	732.5	579.1	523.8
80°	880.3	489.2	205.9	120.2	120.2	181.0	316.5	543.1	652.3	563.9	558.3
82.5°	457.4	310.9	131.3	74.6	69.1	87.1	194.9	373.1	523.8	478.2	544.5
85°	91.2	65.0	41.5	30.4	33.2	44.2	69.1	189.3	331.7	369.0	442.2
87.5°	6.9	5.5	8.3	8.3	8.3	8.3	9.7	47.0	132.7	163.1	201.8
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)