

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: P509222

Luminaire Tested: **VERD-CA2-130-740-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-740-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1180mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17092 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

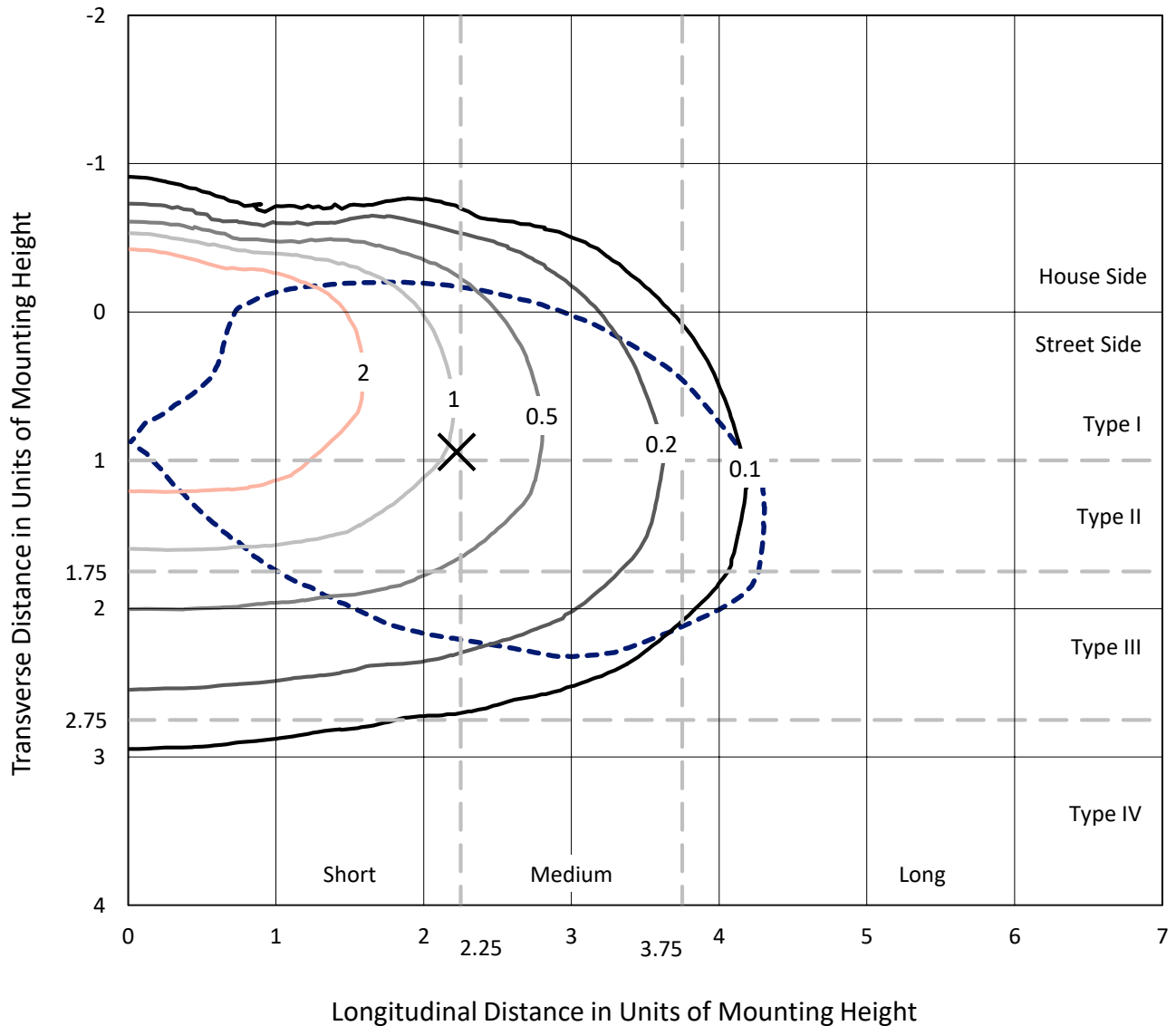
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509222
 CATALOG NUMBER: VERD-CA2-130-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

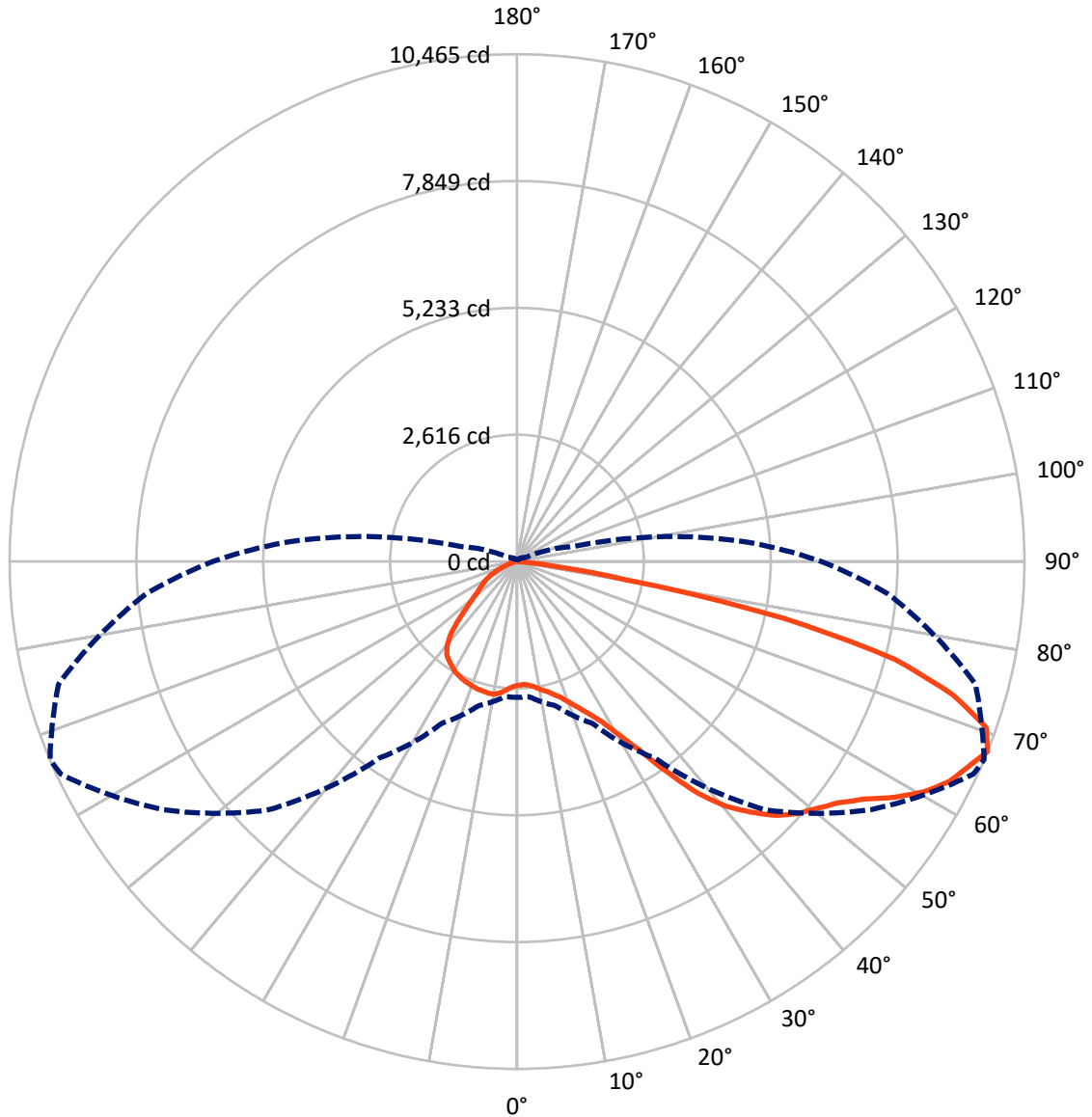
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P509222
CATALOG NUMBER: VERD-CA2-130-740-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509222
 CATALOG NUMBER: VERD-CA2-130-740-U-T3-HSS

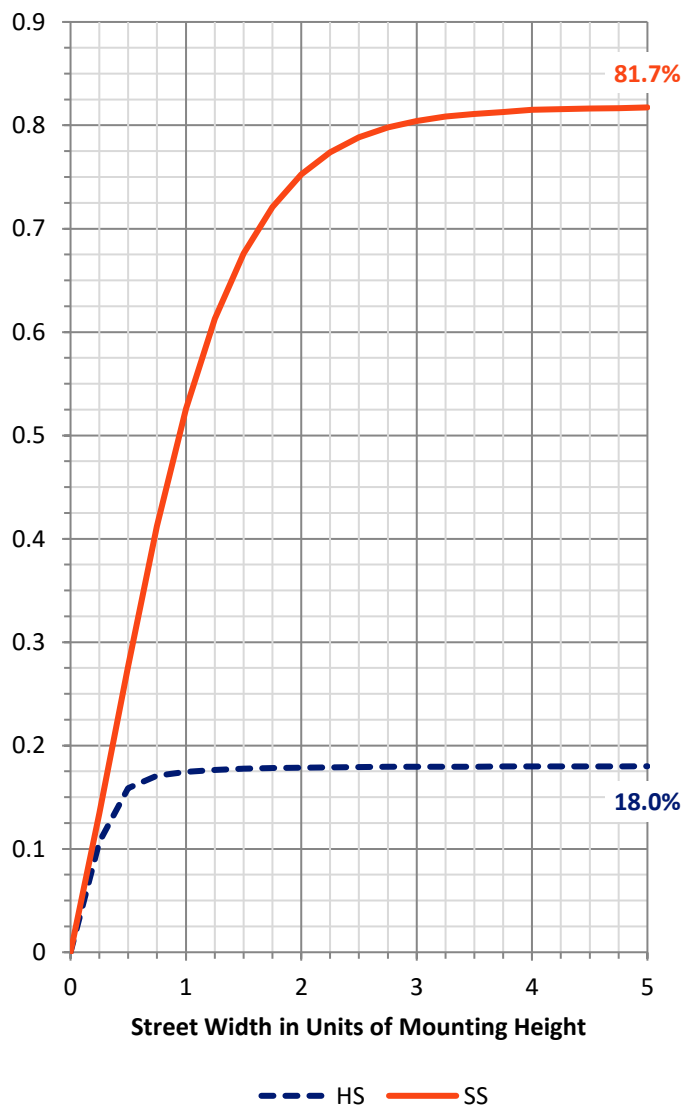
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3114.3	0.0	3114.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13977.7	0.0	13977.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	17092.0	0.0	17092.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	1.5
10°-20°	800.8	4.7
20°-30°	1366.4	8.0
30°-40°	2126.8	12.4
40°-50°	3002.4	17.6
50°-60°	3616.1	21.2
60°-70°	3737.0	21.9
70°-80°	2058.6	12.0
80°-90°	128.3	0.8
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°	17092.0	100.0
0°-180°	17092.0	100.0



REPORT NUMBER: P509222

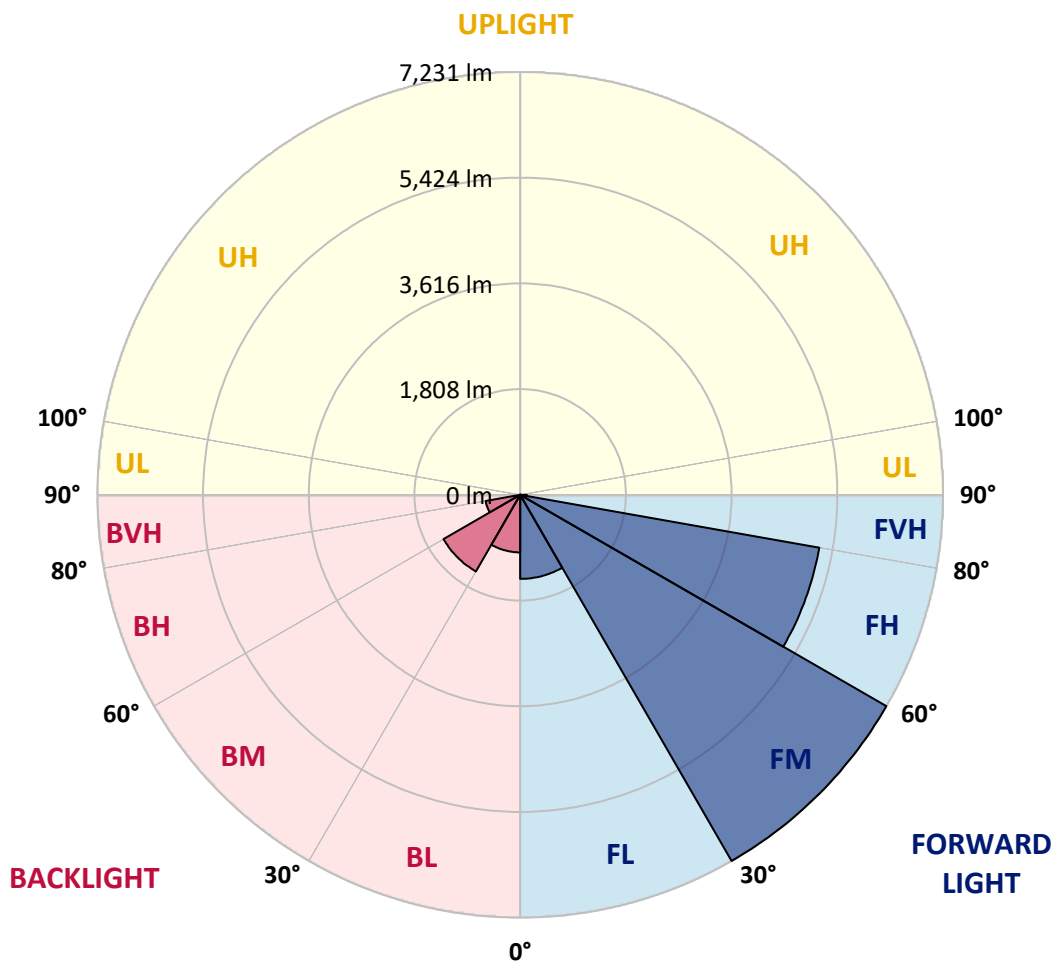
CATALOG NUMBER: VERD-CA2-130-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.2	8.4			
FM (30°-60°)	7231.4	42.3			
FH (60°-80°)	5195.3	30.4			G3/7500
FVH (80°-90°)	112.9	0.7			G2/225
BL (0°-30°)	984.7	5.8	B2/1000		
BM (30°-60°)	1513.9	8.9	B2/2500		
BH (60°-80°)	600.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P509222

CATALOG NUMBER: VERD-CA2-130-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0
2.5°	2528.3	2554.0	2554.0	2546.1	2550.1	2532.2	2520.4	2534.2	2538.2	2550.1	2565.9
5°	2577.7	2607.4	2605.4	2591.6	2579.7	2563.9	2548.1	2559.9	2561.9	2565.9	2585.7
7.5°	2682.6	2710.3	2698.4	2684.6	2678.6	2643.0	2609.4	2607.4	2611.4	2623.2	2645.0
10°	2819.1	2840.9	2836.9	2815.1	2799.3	2745.9	2698.4	2680.6	2682.6	2686.6	2724.1
12.5°	2973.4	3003.1	2981.3	2951.7	2924.0	2846.8	2781.5	2755.8	2751.8	2761.7	2793.4
15°	3125.7	3157.4	3141.6	3123.8	3060.5	2975.4	2892.3	2850.8	2846.8	2846.8	2866.6
17.5°	3325.6	3337.4	3327.5	3301.8	3230.6	3123.8	3024.8	2963.5	2953.6	2959.6	2963.5
20°	3547.1	3568.9	3557.0	3529.3	3426.4	3311.7	3187.1	3113.9	3107.9	3113.9	3076.3
22.5°	3816.2	3824.1	3818.2	3772.7	3679.7	3527.3	3363.1	3280.1	3280.1	3286.0	3208.8
25°	4045.7	4093.1	4079.3	4023.9	3915.1	3782.5	3584.7	3481.8	3487.8	3491.7	3384.9
27.5°	4312.7	4352.3	4342.4	4300.9	4229.6	4061.5	3824.1	3756.8	3750.9	3745.0	3578.8
30°	4567.9	4597.6	4617.4	4607.5	4550.1	4391.9	4180.2	4130.7	4146.6	4134.7	3847.8
32.5°	4775.7	4827.1	4882.5	4894.4	4878.5	4738.1	4583.8	4609.5	4629.3	4769.7	4597.6
35°	4953.7	5009.1	5100.1	5195.1	5212.9	5157.5	5080.3	5268.3	5325.6	5612.5	5430.5
37.5°	5139.7	5187.1	5278.2	5428.5	5527.4	5557.1	5632.3	5929.0	6067.5	6314.8	5976.5
40°	5224.7	5272.2	5430.5	5620.4	5826.1	5992.3	6142.7	6486.9	6641.2	6716.4	6277.2
42.5°	5139.7	5185.2	5440.4	5798.4	6077.4	6445.4	6615.5	6959.7	7062.6	7054.7	6647.1
45°	5056.6	5100.1	5367.2	5844.0	6304.9	6862.8	7007.2	7393.0	7468.1	7373.2	6860.8
47.5°	4949.8	5009.1	5286.1	5816.3	6508.7	7240.6	7373.2	7701.6	7768.9	7628.4	7106.1
50°	4819.2	4870.6	5193.1	5772.7	6643.2	7523.5	7664.0	7990.4	8008.2	7877.7	7327.7
52.5°	4668.8	4696.5	5046.7	5685.7	6759.9	7731.3	7891.5	8233.8	8275.3	8239.7	7590.8
55°	4445.3	4494.7	4870.6	5549.2	6767.8	7840.1	8067.6	8578.0	8653.2	8570.1	7751.0
57.5°	4209.9	4263.3	4653.0	5359.3	6651.1	7909.3	8388.1	9025.1	9173.5	8906.4	7881.6
60°	3950.7	3998.2	4382.0	5078.3	6443.4	8008.2	8718.4	9549.3	9642.3	9193.2	7968.7
62.5°	3650.0	3687.6	4053.6	4738.1	6124.9	7982.5	9003.3	9970.7	10000.4	9450.4	7960.8
65°	3284.0	3282.0	3622.3	4263.3	5602.6	7776.8	9054.8	10182.4	10218.0	9616.6	7889.5
67.5°	2801.3	2795.4	3080.2	3683.6	4943.8	7240.6	8918.3	10380.2	10465.3	9790.7	7681.8
70°	2195.9	2203.8	2419.5	2957.6	4012.0	6423.6	8558.2	10247.7	10265.5	9456.4	7143.7
72.5°	1553.0	1549.0	1695.4	2059.4	2965.5	5015.0	7521.6	9343.6	9399.0	8629.4	6223.8
75°	712.2	741.9	1107.9	1258.2	1790.4	3414.6	6188.2	7939.0	8045.8	7428.6	4852.8
77.5°	132.5	136.5	237.4	478.8	700.3	1232.5	3697.5	5377.1	5600.6	5062.5	2734.0
80°	104.9	106.8	140.5	229.5	292.8	553.9	1216.7	2215.7	2265.2	1974.4	985.2
82.5°	77.2	79.1	104.9	148.4	136.5	239.4	506.4	644.9	684.5	637.0	391.7
85°	45.5	47.5	61.3	73.2	71.2	95.0	85.1	77.2	69.2	57.4	49.5
87.5°	11.9	15.8	25.7	25.7	19.8	17.8	15.8	13.8	15.8	13.8	13.8
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: P509222
 CATALOG NUMBER: VERD-CA2-130-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0	2552.0
2.5°	2569.8	2567.9	2573.8	2589.6	2603.5	2605.4	2625.2	2650.9	2639.1	2672.7	2660.8
5°	2597.5	2603.5	2625.2	2650.9	2674.7	2694.5	2724.1	2767.7	2753.8	2785.5	2773.6
7.5°	2660.8	2670.7	2704.4	2730.1	2757.8	2751.8	2777.6	2803.3	2771.6	2805.3	2789.4
10°	2736.0	2747.9	2767.7	2777.6	2769.6	2765.7	2759.8	2755.8	2714.3	2738.0	2728.1
12.5°	2803.3	2805.3	2799.3	2773.6	2755.8	2708.3	2686.6	2676.7	2613.4	2631.2	2619.3
15°	2868.6	2840.9	2811.2	2751.8	2702.4	2629.2	2581.7	2540.2	2480.8	2504.6	2480.8
17.5°	2939.8	2898.2	2821.1	2734.0	2633.1	2526.3	2449.2	2381.9	2292.9	2288.9	2281.0
20°	3030.8	2969.5	2844.8	2702.4	2558.0	2397.7	2275.1	2162.3	2027.8	2010.0	1974.4
22.5°	3145.5	3054.5	2880.4	2660.8	2465.0	2263.2	2055.5	1869.5	1699.4	1646.0	1626.2
25°	3278.1	3165.3	2900.2	2623.2	2376.0	2067.3	1784.4	1543.1	1343.3	1285.9	1270.1
27.5°	3444.3	3305.8	2929.9	2567.9	2233.5	1828.0	1460.0	1192.9	1014.9	921.9	908.0
30°	3673.7	3462.1	2971.4	2512.5	2061.4	1547.0	1131.6	821.0	652.8	597.5	587.6
32.5°	4298.9	3834.0	3016.9	2413.5	1833.9	1234.5	751.8	524.3	411.5	366.0	362.0
35°	5092.2	4514.5	3183.1	2300.8	1558.9	856.6	466.9	312.6	251.2	233.4	233.4
37.5°	5604.6	5042.7	3460.1	2142.5	1196.9	524.3	280.9	203.8	191.9	189.9	189.9
40°	5873.6	5276.2	3659.9	1924.9	801.2	304.7	197.8	176.1	172.1	168.2	168.2
42.5°	6215.9	5476.0	3832.0	1630.1	464.9	213.7	174.1	160.2	154.3	150.4	150.4
45°	6405.8	5693.6	3723.2	1280.0	265.1	191.9	160.2	144.4	138.5	138.5	138.5
47.5°	6591.8	5901.3	3584.7	919.9	225.5	176.1	150.4	134.5	128.6	132.5	132.5
50°	6803.4	6041.8	3365.1	688.5	213.7	164.2	136.5	122.7	118.7	124.6	124.6
52.5°	7001.3	6055.6	3013.0	550.0	197.8	152.3	126.6	112.8	108.8	112.8	112.8
55°	7058.6	6012.1	2912.1	437.2	187.9	140.5	118.7	104.9	95.0	95.0	93.0
57.5°	7044.8	5927.0	2666.8	369.9	176.1	128.6	108.8	93.0	81.1	77.2	77.2
60°	6997.3	5808.3	2407.6	322.5	164.2	118.7	96.9	79.1	67.3	63.3	63.3
62.5°	6938.0	5584.8	2041.6	280.9	152.3	114.7	81.1	65.3	57.4	53.4	53.4
65°	6688.7	5236.6	1634.1	239.4	140.5	100.9	71.2	57.4	49.5	45.5	45.5
67.5°	6275.2	4706.4	1181.1	203.8	130.6	85.1	63.3	49.5	41.5	39.6	37.6
70°	5658.0	3974.4	732.0	176.1	112.8	77.2	55.4	43.5	37.6	31.7	31.7
72.5°	4716.3	3111.9	383.8	138.5	89.0	65.3	49.5	39.6	31.7	27.7	25.7
75°	3315.7	1919.0	277.0	106.8	61.3	53.4	41.5	33.6	27.7	23.7	21.8
77.5°	1600.5	660.8	193.9	79.1	43.5	39.6	31.7	27.7	21.8	19.8	19.8
80°	585.6	375.9	138.5	57.4	35.6	31.7	23.7	21.8	17.8	15.8	15.8
82.5°	263.1	178.0	79.1	37.6	25.7	23.7	17.8	13.8	13.8	13.8	13.8
85°	43.5	37.6	25.7	17.8	13.8	11.9	11.9	9.9	9.9	9.9	9.9
87.5°	11.9	11.9	9.9	9.9	7.9	5.9	4.0	4.0	4.0	5.9	5.9
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)