

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: P509117

Luminaire Tested: **VERD-CA2-110-730-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-730-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15694 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

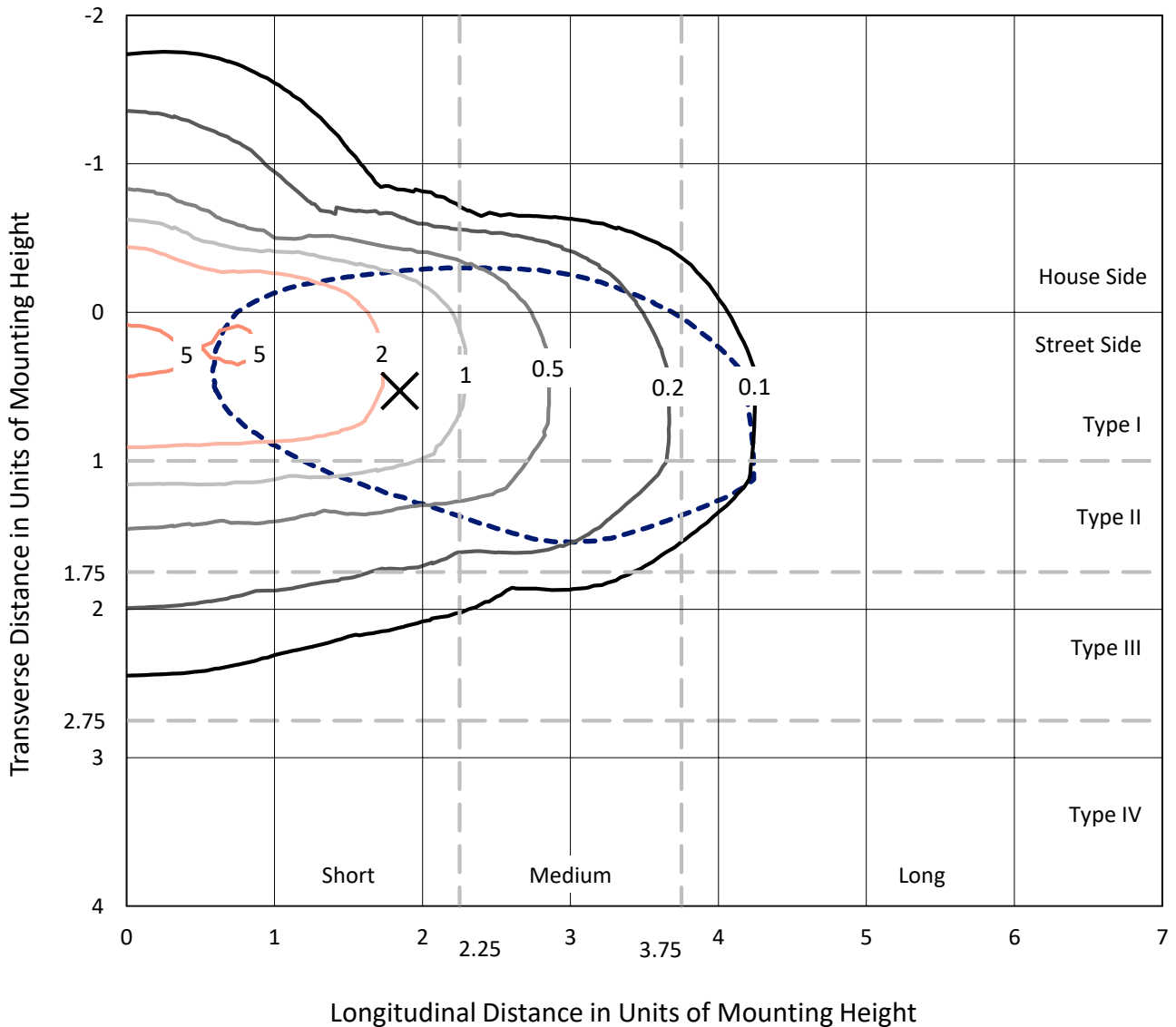
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

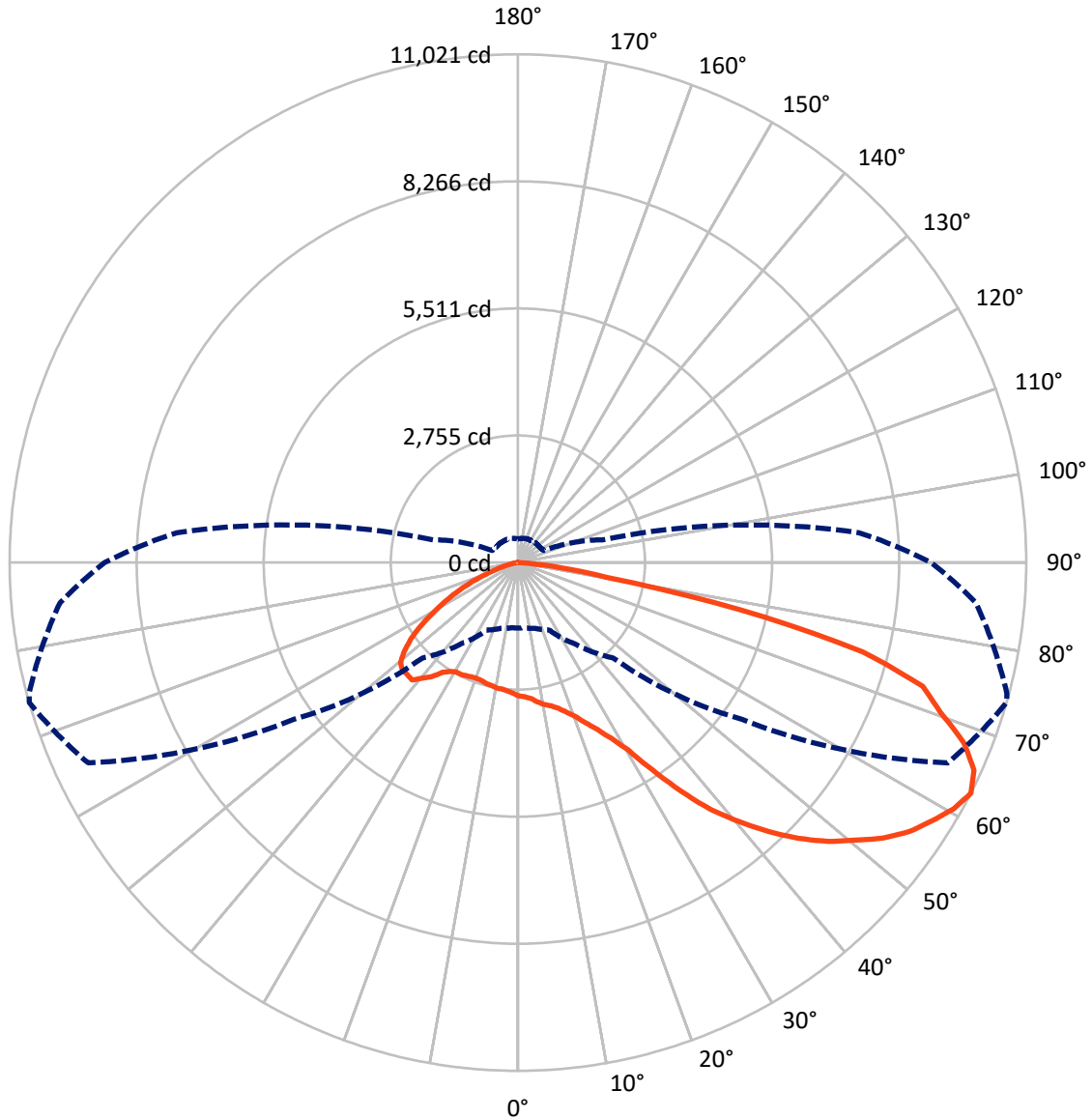
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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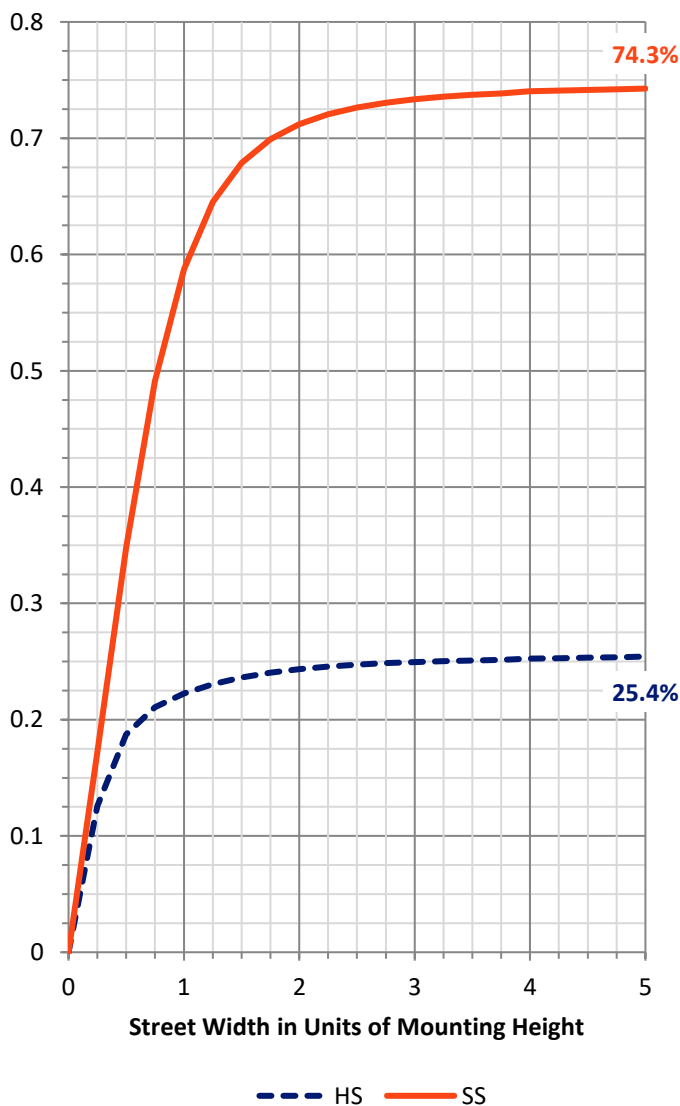
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4052.3	0.0	4052.3
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	11641.7	0.0	11641.7
	% Fixture	74.2	0.0	74.2
Total	Lumens	15694.0	0.0	15694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	1.8
10°-20°	847.8	5.4
20°-30°	1429.6	9.1
30°-40°	2088.7	13.3
40°-50°	2781.1	17.7
50°-60°	3200.6	20.4
60°-70°	3092.8	19.7
70°-80°	1780.5	11.3
80°-90°	194.8	1.2
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°	15694.0	100.0
0°-180°	15694.0	100.0

Coefficient of Utilization



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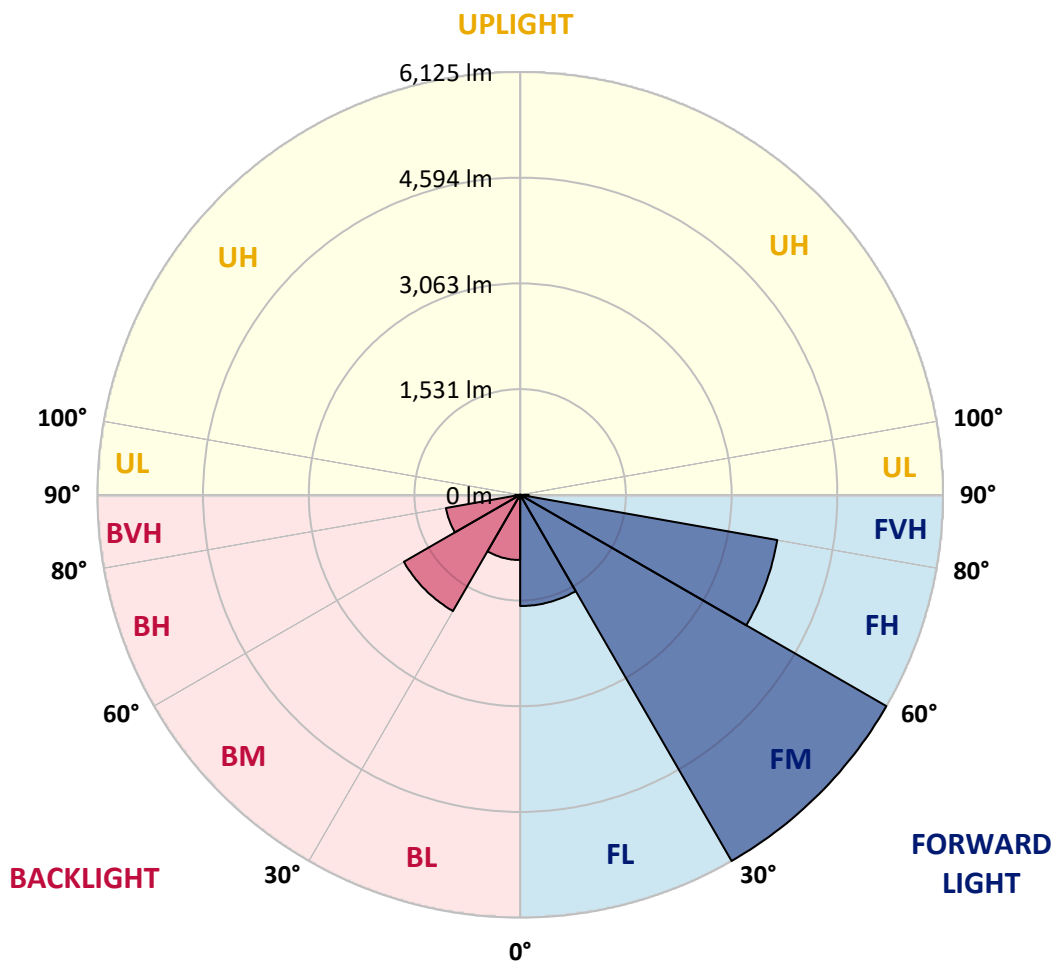
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.7	10.3			
FM (30°-60°)	6125.4	39.0			
FH (60°-80°)	3782.4	24.1			G2/5000
FVH (80°-90°)	123.2	0.8			G2/225
BL (0°-30°)	944.8	6.0	B2/1000		
BM (30°-60°)	1945.0	12.4	B2/2500		
BH (60°-80°)	1090.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	71.6	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	3097.5	3075.3	3061.6	3046.2	3027.4	3020.5	2979.5	2943.5	2914.4	2916.1	2897.3
5°	3210.5	3186.5	3155.7	3150.6	3126.6	3121.5	3082.1	3025.7	2962.3	2953.8	2897.3
7.5°	3337.1	3323.4	3304.6	3280.7	3241.3	3215.6	3159.2	3114.7	3049.6	3041.1	2929.8
10°	3491.2	3480.9	3467.2	3467.2	3415.9	3361.1	3292.6	3181.4	3130.1	3121.5	2986.3
12.5°	3672.6	3641.8	3597.3	3571.6	3523.7	3489.4	3415.9	3297.8	3186.5	3183.1	3039.4
15°	3790.6	3765.0	3735.9	3725.6	3664.0	3607.5	3528.8	3434.7	3278.9	3267.0	3104.4
17.5°	3922.4	3898.5	3864.2	3845.4	3806.0	3741.0	3670.8	3547.6	3409.0	3397.0	3178.0
20°	3996.0	3970.3	3960.1	3963.5	3949.8	3917.3	3833.4	3722.2	3563.0	3547.6	3278.9
22.5°	4078.1	4061.0	4064.5	4090.1	4115.8	4103.8	4038.8	3915.6	3778.7	3754.7	3441.5
25°	4079.9	4066.2	4112.4	4211.6	4266.4	4293.8	4259.5	4158.6	4013.1	3990.9	3648.6
27.5°	4108.9	4088.4	4138.0	4242.4	4408.4	4464.9	4476.9	4439.2	4314.3	4286.9	3896.7
30°	4033.6	4020.0	4095.3	4276.7	4471.8	4660.0	4728.5	4786.6	4716.5	4718.2	4280.1
32.5°	3903.6	3879.6	3994.3	4216.8	4579.6	4836.3	5017.7	5252.1	5359.9	5349.7	4947.5
35°	3655.4	3669.1	3823.2	4163.7	4583.0	5016.0	5371.9	5791.2	6083.8	6077.0	5638.9
37.5°	3479.2	3472.3	3653.7	4014.8	4581.3	5175.1	5715.9	6414.1	6792.3	6782.1	6232.7
40°	3267.0	3268.7	3450.1	3830.0	4500.8	5274.4	6071.9	7004.6	7389.6	7374.2	6800.9
42.5°	3039.4	3046.2	3215.6	3604.1	4389.6	5349.7	6390.2	7601.8	7974.9	7988.6	7256.1
45°	2835.7	2839.1	3006.8	3362.8	4192.8	5358.2	6676.0	8166.6	8529.4	8496.8	7733.6
47.5°	2536.2	2539.6	2787.8	3133.5	3932.7	5288.1	6912.1	8703.9	9035.9	8967.5	8137.5
50°	1986.9	1993.7	2288.1	2895.6	3616.1	5127.2	7098.7	9208.8	9465.5	9436.4	8551.6
52.5°	1834.6	1829.4	1952.6	2611.5	3332.0	4836.3	7216.8	9662.3	9922.4	9919.0	8893.9
55°	1757.6	1752.4	1793.5	2116.9	3053.0	4405.0	7213.3	10014.8	10300.6	10230.4	9207.1
57.5°	1620.6	1610.4	1716.5	1875.6	2741.6	3867.6	7042.2	10331.4	10574.4	10553.9	9489.4
60°	1523.1	1514.5	1586.4	1733.6	2409.6	3321.7	6602.4	10495.7	10850.0	10858.5	9727.3
62.5°	1422.1	1417.0	1478.6	1615.5	2149.5	2923.0	5924.7	10280.1	11021.1	10974.9	9965.2
65°	1307.5	1304.0	1362.2	1473.5	1891.0	2620.1	5260.7	9895.0	10867.1	10920.1	9996.0
67.5°	1170.6	1168.9	1225.3	1302.3	1608.7	2315.5	4244.1	9441.5	10427.3	10369.1	9600.7
70°	1002.9	996.0	1066.2	1138.0	1346.8	1969.8	3302.9	8635.5	9711.9	9922.4	8813.4
72.5°	843.7	840.3	907.0	960.1	1115.8	1608.7	2409.6	7468.3	9176.3	8873.3	7940.7
75°	660.6	643.5	713.6	763.3	879.6	1280.1	1642.9	4988.6	7723.3	7660.0	6670.8
77.5°	267.0	309.8	369.7	414.1	491.2	725.6	859.1	2366.8	4927.0	5144.3	4639.5
80°	102.7	109.5	263.5	297.8	330.3	417.6	330.3	997.7	1944.1	2120.4	2686.8
82.5°	58.2	65.0	130.1	124.9	123.2	106.1	123.2	489.4	1014.8	1112.4	1297.2
85°	32.5	35.9	53.1	58.2	49.6	42.8	37.6	128.4	253.3	239.6	268.7
87.5°	5.1	6.8	8.6	8.6	5.1	5.1	5.1	6.8	6.8	6.8	8.6
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°	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9	2893.9
2.5°	2878.5	2859.7	2840.8	2818.6	2791.2	2774.1	2767.3	2775.8	2799.8	2770.7	2746.7
5°	2868.2	2842.6	2799.8	2757.0	2722.8	2693.7	2654.3	2650.9	2657.7	2645.7	2614.9
7.5°	2890.5	2852.8	2765.5	2736.4	2664.6	2596.1	2573.9	2565.3	2544.8	2520.8	2491.7
10°	2935.0	2858.0	2769.0	2683.4	2616.7	2543.1	2457.5	2459.2	2450.7	2423.3	2395.9
12.5°	2957.2	2866.5	2736.4	2645.7	2543.1	2452.4	2368.5	2330.9	2346.3	2324.0	2294.9
15°	2998.3	2902.4	2724.5	2591.0	2450.7	2348.0	2284.7	2229.9	2195.7	2200.8	2183.7
17.5°	3075.3	2935.0	2693.7	2531.1	2378.8	2257.3	2135.8	2130.6	2079.3	2050.2	2024.5
20°	3155.7	2993.1	2690.2	2466.1	2262.4	2111.8	2014.3	1959.5	1928.7	1904.7	1885.9
22.5°	3260.1	3073.6	2702.2	2428.4	2158.0	1988.6	1863.7	1790.1	1740.4	1723.3	1709.6
25°	3407.3	3174.6	2734.7	2361.7	2048.5	1853.4	1684.0	1607.0	1550.5	1536.8	1526.5
27.5°	3609.2	3302.9	2767.3	2289.8	1920.1	1663.4	1483.7	1408.4	1345.1	1343.4	1324.6
30°	3927.5	3499.7	2779.2	2226.5	1783.2	1459.8	1280.1	1209.9	1162.0	1143.2	1156.9
32.5°	4521.4	3934.4	2854.5	2128.9	1610.4	1261.3	1109.0	1052.5	999.4	978.9	992.6
35°	5163.1	4454.6	2981.2	2062.2	1420.4	1073.0	968.6	901.9	836.8	826.6	821.4
37.5°	5633.8	4928.7	3220.8	1952.6	1240.7	958.4	821.4	766.7	729.0	708.5	727.3
40°	6167.7	5322.3	3402.2	1836.3	1057.6	836.8	684.5	667.4	650.3	636.6	657.2
42.5°	6590.4	5727.9	3617.8	1682.3	910.4	710.2	609.2	622.9	631.5	624.6	626.4
45°	6978.9	6029.1	3631.5	1447.8	777.0	616.1	587.0	614.4	634.9	631.5	629.8
47.5°	7358.8	6388.5	3664.0	1199.7	681.1	592.1	588.7	609.2	636.6	641.8	641.8
50°	7750.7	6662.3	3614.4	965.2	645.2	595.5	593.8	592.1	626.4	628.1	633.2
52.5°	8045.1	6884.8	3379.9	797.5	643.5	605.8	602.4	585.3	600.7	612.7	604.1
55°	8356.5	7162.0	3083.9	734.2	640.0	609.2	622.9	593.8	583.6	573.3	583.6
57.5°	8652.6	7355.4	2695.4	696.5	626.4	604.1	631.5	592.1	569.9	540.8	530.5
60°	8880.2	7399.9	2262.4	657.2	609.2	592.1	593.8	580.1	551.1	515.1	499.7
62.5°	8957.2	7425.5	1903.0	619.5	575.0	573.3	559.6	554.5	542.5	520.3	513.4
65°	8892.2	7134.6	1519.7	573.3	545.9	547.6	527.1	510.0	482.6	446.7	443.2
67.5°	8445.5	6622.9	1165.4	515.1	501.4	518.5	496.3	467.2	436.4	412.4	415.9
70°	7680.5	6017.1	818.0	434.7	450.1	480.9	472.3	434.7	400.5	379.9	383.3
72.5°	6830.0	5098.1	556.2	338.8	366.2	431.3	431.3	405.6	371.4	344.0	337.1
75°	5387.3	4004.6	359.4	224.2	241.3	352.5	381.6	342.3	304.6	287.5	280.7
77.5°	3657.2	2608.1	229.3	128.4	160.9	231.0	301.2	306.3	361.1	362.8	347.4
80°	2149.5	1492.3	140.3	75.3	80.4	133.5	241.3	302.9	383.3	270.4	248.1
82.5°	1069.6	636.6	63.3	46.2	47.9	66.7	130.1	347.4	296.1	169.4	162.6
85°	237.9	104.4	25.7	24.0	27.4	34.2	66.7	287.5	181.4	136.9	133.5
87.5°	8.6	6.8	6.8	6.8	5.1	5.1	13.7	94.1	71.9	59.9	56.5
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)