

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: P509197

Luminaire Tested: **VERD-CA2-130-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509197
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-CA2-130-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1180mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14786 lumens
Efficiency: N/A
Efficacy: 112.2 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

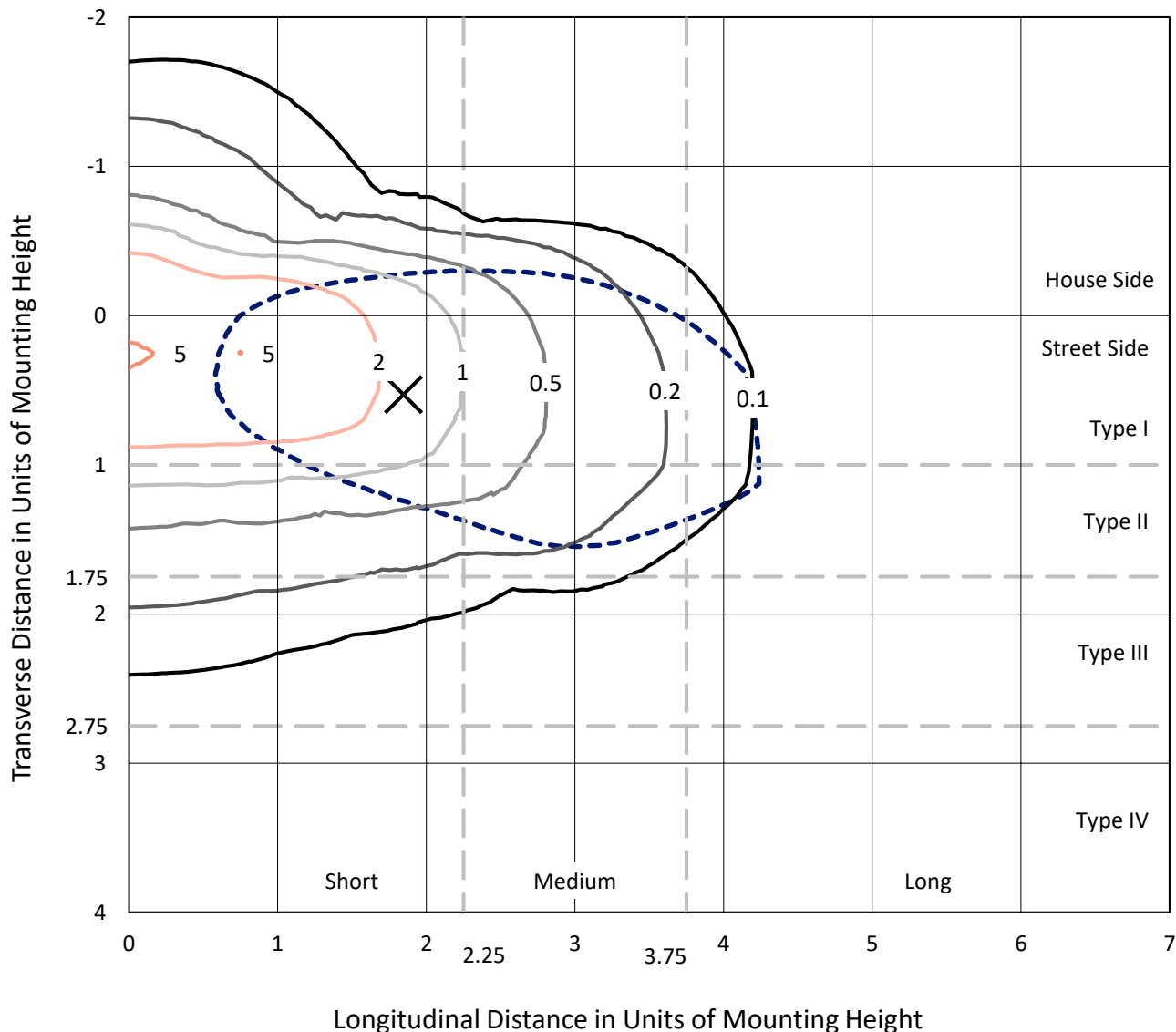
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

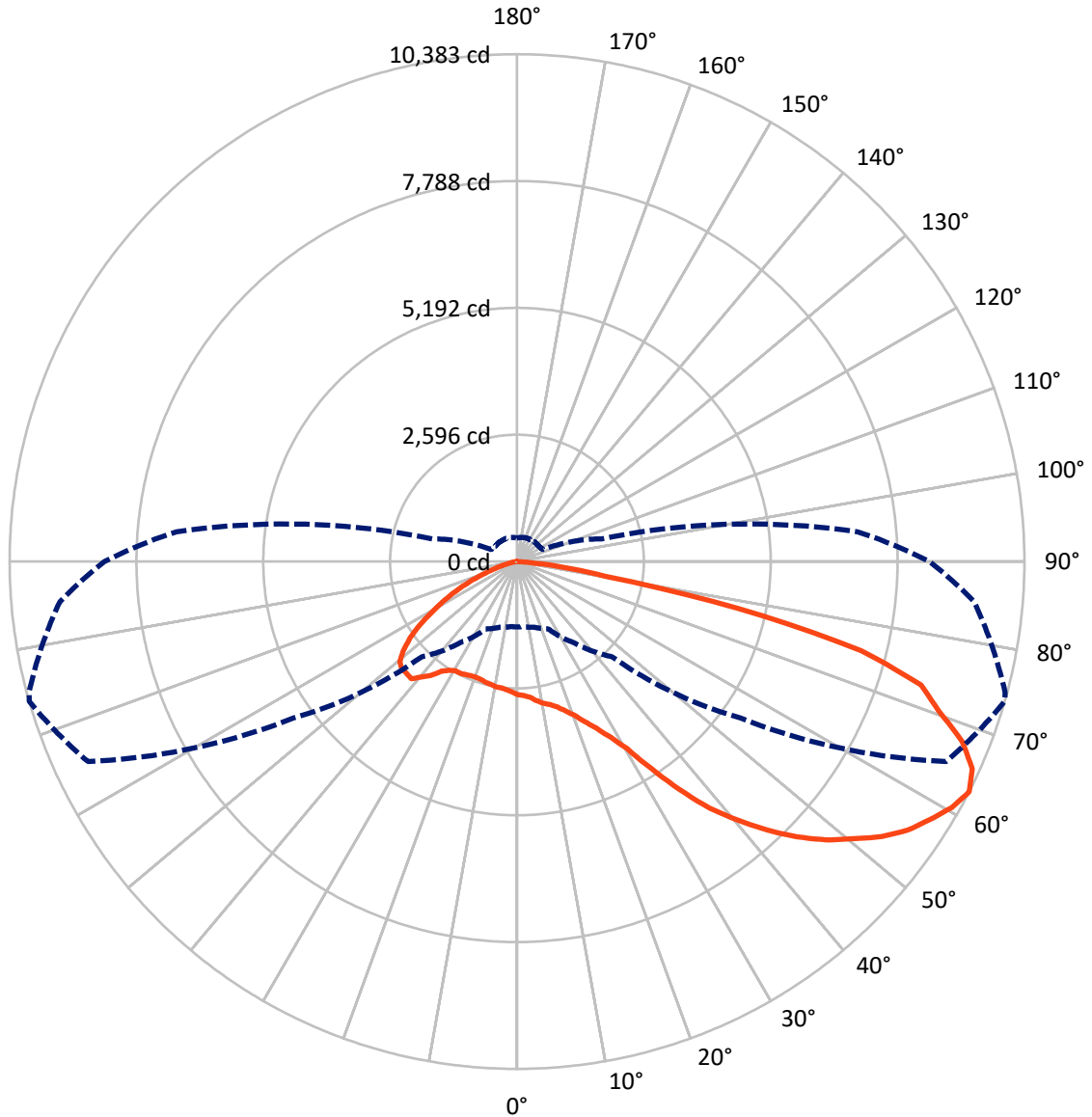
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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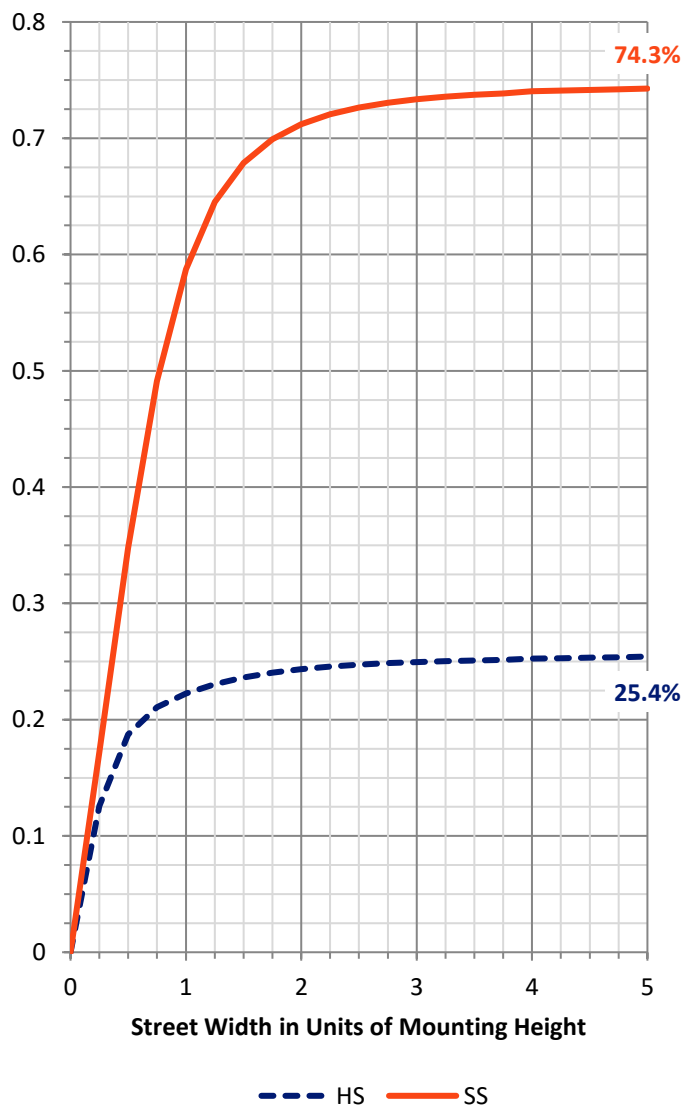
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3817.8	0.0	3817.8
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	10968.1	0.0	10968.1
	% Fixture	74.2	0.0	74.2
Total	Lumens	14786.0	0.0	14786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	1.8
10°-20°	798.8	5.4
20°-30°	1346.9	9.1
30°-40°	1967.9	13.3
40°-50°	2620.2	17.7
50°-60°	3015.4	20.4
60°-70°	2913.9	19.7
70°-80°	1677.4	11.3
80°-90°	183.5	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°	14786.0	100.0
0°-180°	14786.0	100.0

Coefficient of Utilization



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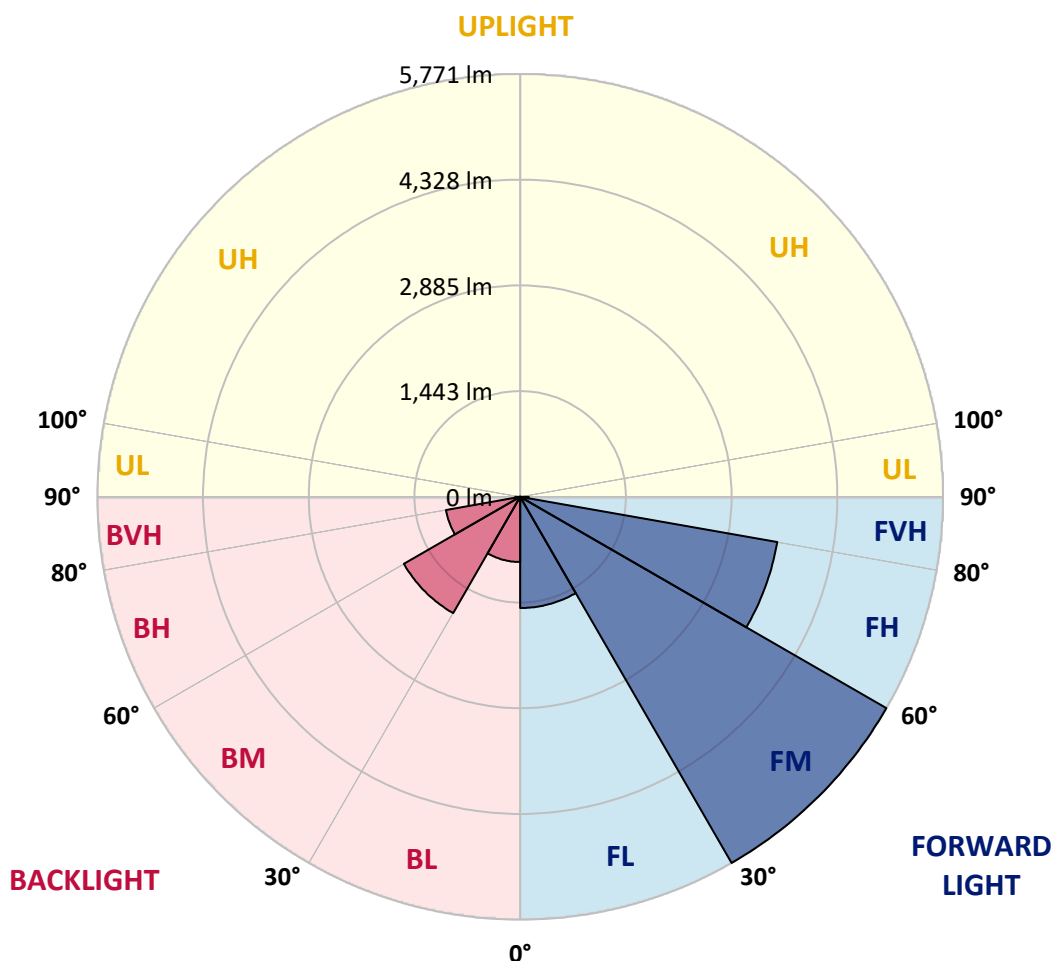
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.5	10.3			
FM (30°-60°)	5771.0	39.0			
FH (60°-80°)	3563.5	24.1			G2/5000
FVH (80°-90°)	116.1	0.8			G2/225
BL (0°-30°)	890.1	6.0	B2/1000		
BM (30°-60°)	1832.5	12.4	B2/2500		
BH (60°-80°)	1027.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	67.4	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°	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5
2.5°	2918.3	2897.4	2884.5	2870.0	2852.2	2845.8	2807.1	2773.2	2745.8	2747.4	2729.7
5°	3024.7	3002.2	2973.1	2968.3	2945.7	2940.9	2903.8	2850.6	2791.0	2782.9	2729.7
7.5°	3144.1	3131.2	3113.4	3090.8	3053.8	3029.6	2976.4	2934.5	2873.2	2865.1	2760.3
10°	3289.2	3279.5	3266.6	3266.6	3218.2	3166.6	3102.1	2997.3	2949.0	2940.9	2813.5
12.5°	3460.1	3431.1	3389.1	3364.9	3319.8	3287.6	3218.2	3107.0	3002.2	2998.9	2863.5
15°	3571.3	3547.1	3519.7	3510.1	3452.0	3398.8	3324.6	3236.0	3089.2	3078.0	2924.8
17.5°	3695.5	3672.9	3640.7	3622.9	3585.8	3524.6	3458.5	3342.4	3211.8	3200.5	2994.1
20°	3764.8	3740.6	3730.9	3734.2	3721.3	3690.6	3611.6	3506.8	3356.9	3342.4	3089.2
22.5°	3842.2	3826.1	3829.3	3853.5	3877.7	3866.4	3805.1	3689.0	3560.0	3537.5	3242.4
25°	3843.8	3830.9	3874.4	3968.0	4019.6	4045.4	4013.1	3918.0	3780.9	3760.0	3437.5
27.5°	3871.2	3851.9	3898.6	3997.0	4153.4	4206.6	4217.9	4182.4	4064.7	4038.9	3671.3
30°	3800.3	3787.4	3858.3	4029.2	4213.0	4390.4	4454.9	4509.7	4443.6	4445.2	4032.5
32.5°	3677.7	3655.2	3763.2	3972.8	4314.6	4556.5	4727.4	4948.3	5049.8	5040.2	4661.3
35°	3444.0	3456.8	3602.0	3922.8	4317.8	4725.8	5061.1	5456.1	5731.9	5725.4	5312.6
37.5°	3277.9	3271.4	3442.3	3782.5	4316.2	4875.7	5385.2	6043.0	6399.4	6389.7	5872.1
40°	3078.0	3079.6	3250.5	3608.4	4240.4	4969.2	5720.6	6599.3	6962.1	6947.6	6407.4
42.5°	2863.5	2870.0	3029.6	3395.6	4135.6	5040.2	6020.5	7162.0	7513.5	7526.4	6836.3
45°	2671.6	2674.9	2832.9	3168.2	3950.2	5048.2	6289.7	7694.1	8035.9	8005.3	7286.1
47.5°	2389.5	2392.7	2626.5	2952.2	3705.1	4982.1	6512.2	8200.3	8513.1	8448.6	7666.7
50°	1871.9	1878.4	2155.7	2728.1	3406.9	4830.6	6688.0	8676.0	8917.8	8890.4	8056.8
52.5°	1728.4	1723.6	1839.7	2460.4	3139.2	4556.5	6799.2	9103.3	9348.3	9345.1	8379.3
55°	1655.9	1651.0	1689.7	1994.5	2876.4	4150.2	6796.0	9435.4	9704.7	9638.5	8674.4
57.5°	1526.9	1517.2	1617.2	1767.1	2583.0	3643.9	6634.8	9733.7	9962.6	9943.3	8940.4
60°	1435.0	1426.9	1494.6	1633.3	2270.2	3129.5	6220.4	9888.5	10222.2	10230.3	9164.5
62.5°	1339.9	1335.0	1393.1	1522.0	2025.1	2753.9	5581.9	9685.3	10383.4	10339.9	9388.6
65°	1231.8	1228.6	1283.4	1388.2	1781.6	2468.5	4956.3	9322.5	10238.3	10288.3	9417.7
67.5°	1102.8	1101.2	1154.4	1227.0	1515.6	2181.5	3998.6	8895.3	9824.0	9769.1	9045.2
70°	944.8	938.4	1004.5	1072.2	1268.9	1855.8	3111.8	8135.8	9150.0	9348.3	8303.5
72.5°	794.9	791.7	854.5	904.5	1051.2	1515.6	2270.2	7036.2	8645.3	8360.0	7481.2
75°	622.4	606.2	672.3	719.1	828.7	1206.0	1547.8	4700.0	7276.5	7216.8	6284.9
77.5°	251.5	291.8	348.3	390.2	462.7	683.6	809.4	2229.9	4641.9	4846.7	4371.0
80°	96.7	103.2	248.3	280.5	311.2	393.4	311.2	940.0	1831.6	1997.7	2531.4
82.5°	54.8	61.3	122.5	117.7	116.1	100.0	116.1	461.1	956.1	1048.0	1222.2
85°	30.6	33.9	50.0	54.8	46.8	40.3	35.5	120.9	238.6	225.7	253.1
87.5°	4.8	6.4	8.1	8.1	4.8	4.8	4.8	6.4	6.4	6.4	8.1
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°	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5
2.5°	2711.9	2694.2	2676.5	2655.5	2629.7	2613.6	2607.1	2615.2	2637.8	2610.4	2587.8
5°	2702.3	2678.1	2637.8	2597.5	2565.2	2537.8	2500.7	2497.5	2504.0	2492.7	2463.7
7.5°	2723.2	2687.8	2605.5	2578.1	2510.4	2445.9	2425.0	2416.9	2397.5	2375.0	2347.6
10°	2765.2	2692.6	2608.8	2528.1	2465.3	2395.9	2315.3	2316.9	2308.9	2283.1	2257.3
12.5°	2786.1	2700.7	2578.1	2492.7	2395.9	2310.5	2231.5	2196.0	2210.5	2189.6	2162.1
15°	2824.8	2734.5	2566.8	2441.1	2308.9	2212.1	2152.5	2100.9	2068.6	2073.5	2057.3
17.5°	2897.4	2765.2	2537.8	2384.6	2241.1	2126.7	2012.2	2007.4	1959.0	1931.6	1907.4
20°	2973.1	2820.0	2534.6	2323.4	2131.5	1989.6	1897.7	1846.1	1817.1	1794.5	1776.8
22.5°	3071.5	2895.8	2545.9	2287.9	2033.2	1873.5	1755.8	1686.5	1639.7	1623.6	1610.7
25°	3210.2	2990.9	2576.5	2225.0	1930.0	1746.2	1586.5	1514.0	1460.8	1447.9	1438.2
27.5°	3400.4	3111.8	2607.1	2157.3	1809.0	1567.2	1397.9	1327.0	1267.3	1265.7	1247.9
30°	3700.3	3297.2	2618.4	2097.6	1680.1	1375.3	1206.0	1139.9	1094.8	1077.0	1089.9
32.5°	4259.8	3706.8	2689.4	2005.7	1517.2	1188.3	1044.8	991.6	941.6	922.3	935.2
35°	4864.4	4196.9	2808.7	1942.9	1338.2	1010.9	912.6	849.7	788.4	778.8	773.9
37.5°	5307.8	4643.5	3034.4	1839.7	1168.9	902.9	773.9	722.3	686.9	667.5	685.2
40°	5810.9	5014.4	3205.3	1730.0	996.4	788.4	644.9	628.8	612.7	599.8	619.1
42.5°	6209.1	5396.5	3408.5	1584.9	857.8	669.1	574.0	586.9	595.0	588.5	590.1
45°	6575.1	5680.3	3421.4	1364.0	732.0	580.4	553.0	578.8	598.2	595.0	593.3
47.5°	6933.0	6018.9	3452.0	1130.2	641.7	557.9	554.6	574.0	599.8	604.6	604.6
50°	7302.3	6276.8	3405.3	909.4	607.9	561.1	559.5	557.9	590.1	591.7	596.6
52.5°	7579.6	6486.4	3184.4	751.3	606.2	570.8	567.5	551.4	565.9	577.2	569.2
55°	7873.0	6747.6	2905.4	691.7	603.0	574.0	586.9	559.5	549.8	540.1	549.8
57.5°	8152.0	6929.8	2539.4	656.2	590.1	569.2	595.0	557.9	536.9	509.5	499.8
60°	8366.4	6971.7	2131.5	619.1	574.0	557.9	559.5	546.6	519.2	485.3	470.8
62.5°	8439.0	6995.9	1792.9	583.7	541.7	540.1	527.2	522.4	511.1	490.2	483.7
65°	8377.7	6721.8	1431.8	540.1	514.3	515.9	496.6	480.5	454.7	420.8	417.6
67.5°	7956.9	6239.7	1098.0	485.3	472.4	488.5	467.6	440.2	411.1	388.6	391.8
70°	7236.2	5669.0	770.7	409.5	424.0	453.1	445.0	409.5	377.3	357.9	361.2
72.5°	6434.8	4803.2	524.0	319.2	345.0	406.3	406.3	382.1	349.9	324.1	317.6
75°	5075.6	3772.9	338.6	211.2	227.3	332.1	359.6	322.5	287.0	270.9	264.4
77.5°	3445.6	2457.2	216.1	120.9	151.6	217.7	283.8	288.6	340.2	341.8	327.3
80°	2025.1	1406.0	132.2	70.9	75.8	125.8	227.3	285.4	361.2	254.7	233.8
82.5°	1007.7	599.8	59.7	43.5	45.1	62.9	122.5	327.3	278.9	159.6	153.2
85°	224.1	98.4	24.2	22.6	25.8	32.2	62.9	270.9	170.9	129.0	125.8
87.5°	8.1	6.4	6.4	6.4	4.8	4.8	12.9	88.7	67.7	56.4	53.2
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)