

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: P509069

Luminaire Tested: **VERD-CA2-100-730-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509069
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-CA2-100-730-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13611 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

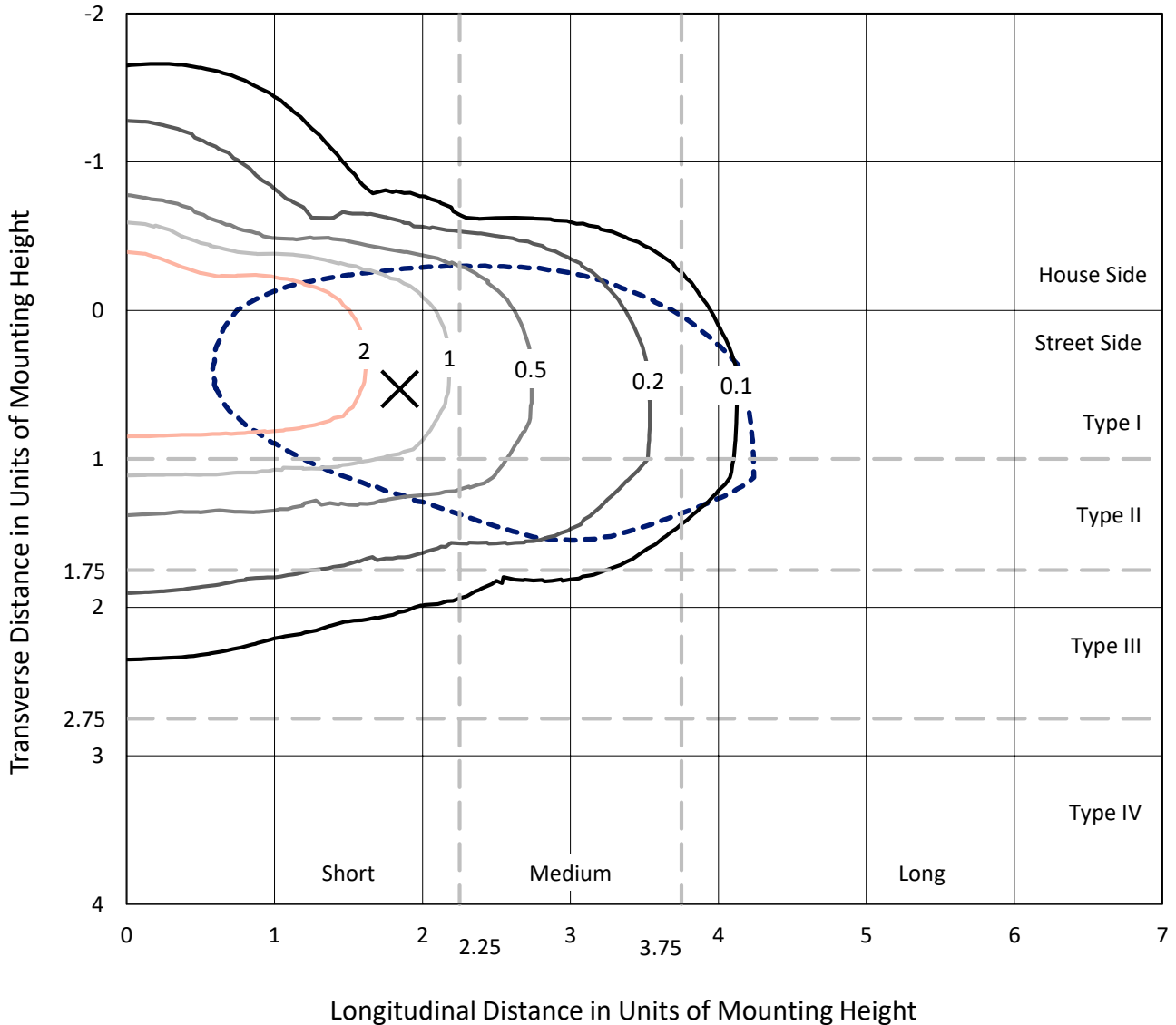
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

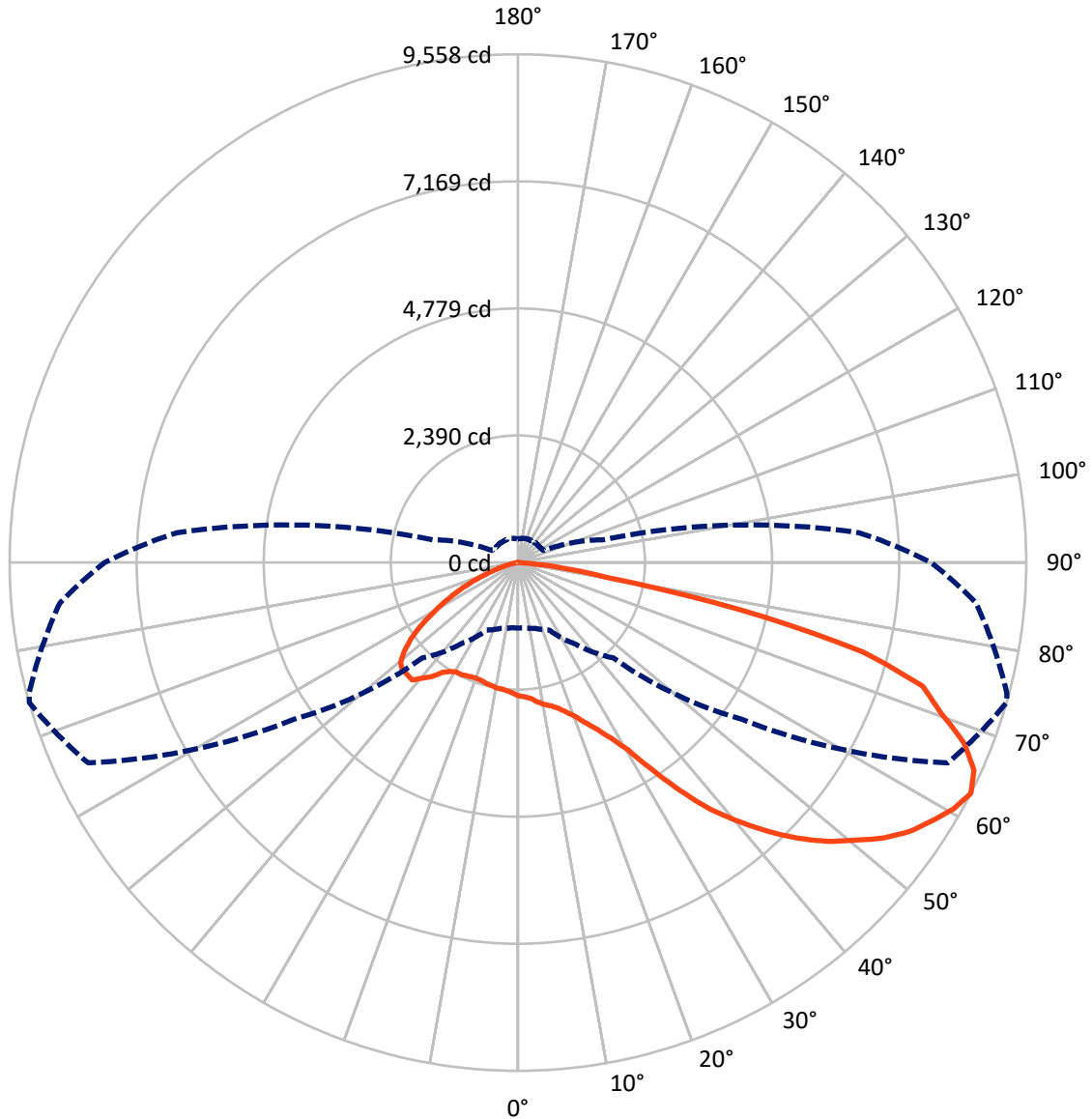
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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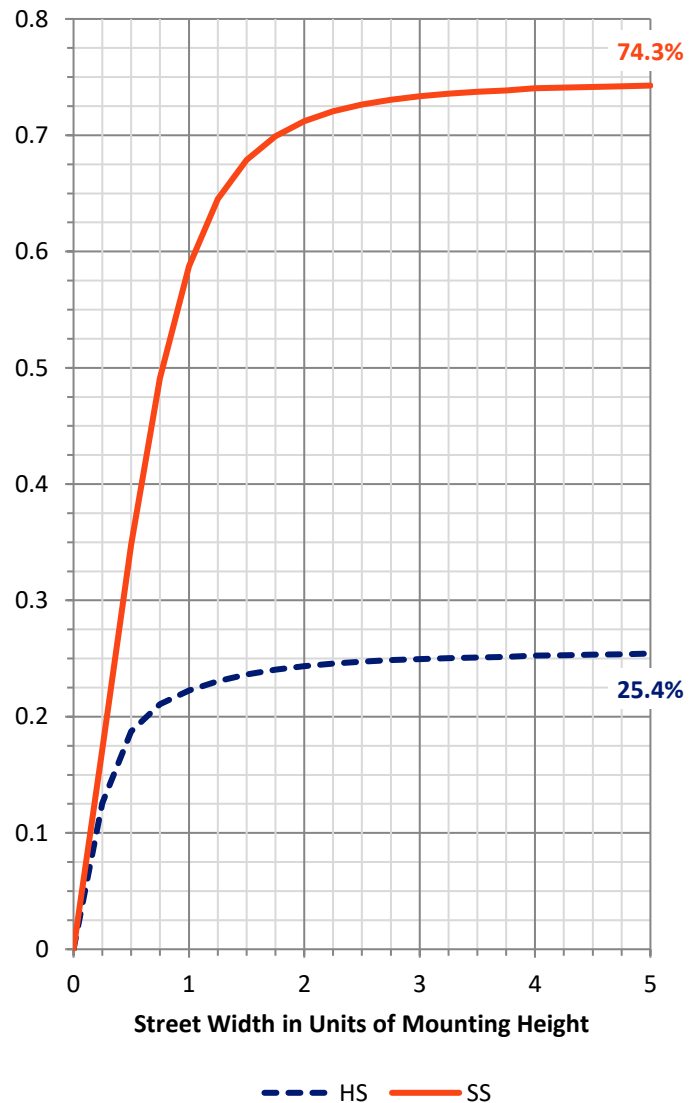
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3514.5	0.0	3514.5
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	10096.5	0.0	10096.5
	% Fixture	74.2	0.0	74.2
Total	Lumens	13611.0	0.0	13611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	1.8
10°-20°	735.3	5.4
20°-30°	1239.8	9.1
30°-40°	1811.5	13.3
40°-50°	2412.0	17.7
50°-60°	2775.8	20.4
60°-70°	2682.3	19.7
70°-80°	1544.1	11.3
80°-90°	168.9	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°	13611.0	100.0
0°-180°	13611.0	100.0



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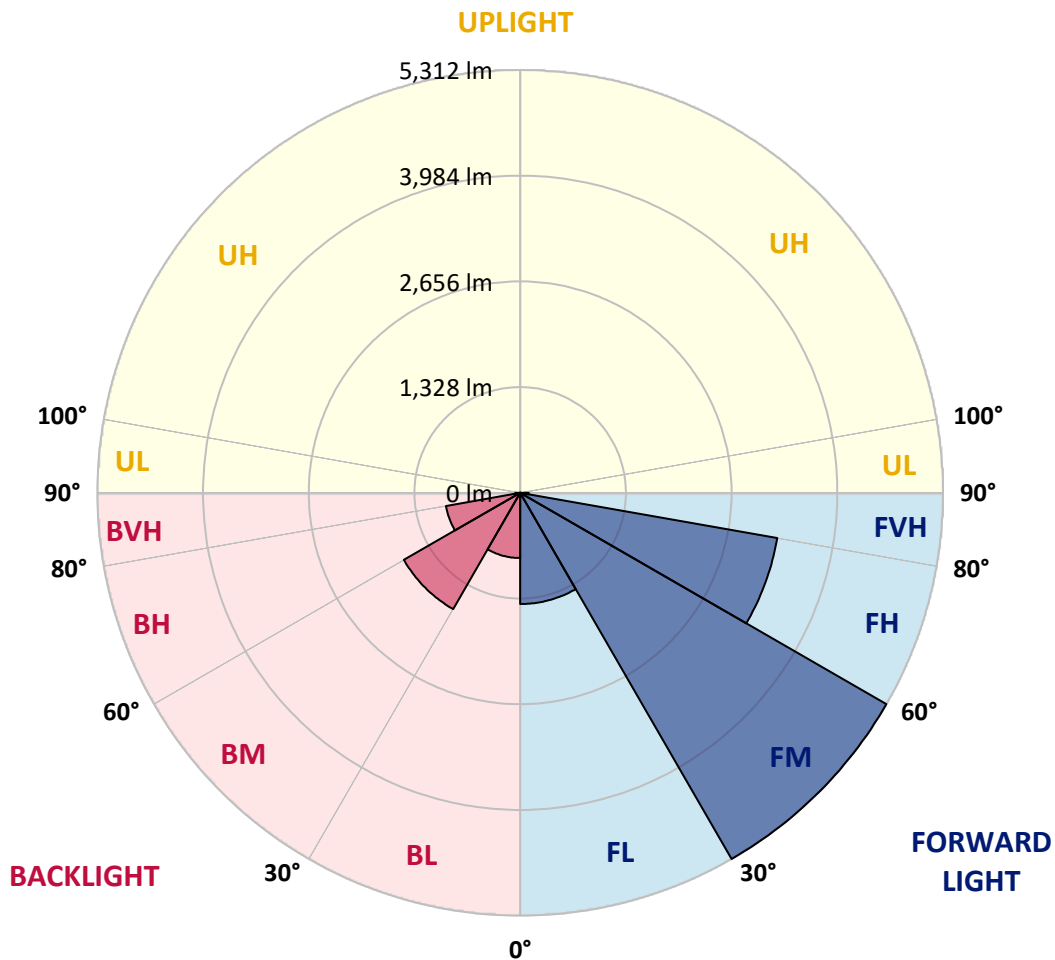
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.9	10.3			
FM	(30°-60°)	5312.4	39.0			
FH	(60°-80°)	3280.4	24.1			G2/5000
FVH	(80°-90°)	106.9	0.8			G2/225
BL	(0°-30°)	819.4	6.0	B2/1000		
BM	(30°-60°)	1686.9	12.4	B2/2500		
BH	(60°-80°)	946.1	7.0	B2/1000		G2/1000
BVH	(80°-90°)	62.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8
2.5°	2686.4	2667.1	2655.2	2641.9	2625.6	2619.6	2584.0	2552.8	2527.6	2529.1	2512.8
5°	2784.4	2763.6	2736.9	2732.4	2711.6	2707.2	2673.1	2624.1	2569.2	2561.7	2512.8
7.5°	2894.2	2882.3	2866.0	2845.2	2811.1	2788.8	2739.8	2701.3	2644.9	2637.4	2541.0
10°	3027.8	3018.9	3007.0	3007.0	2962.5	2915.0	2855.6	2759.1	2714.6	2707.2	2589.9
12.5°	3185.1	3158.4	3119.8	3097.5	3056.0	3026.3	2962.5	2860.1	2763.6	2760.6	2636.0
15°	3287.5	3265.3	3240.0	3231.1	3177.7	3128.7	3060.4	2978.8	2843.7	2833.4	2692.4
17.5°	3401.8	3381.0	3351.3	3335.0	3300.9	3244.5	3183.6	3076.8	2956.5	2946.2	2756.2
20°	3465.6	3443.4	3434.5	3437.4	3425.6	3397.4	3324.6	3228.2	3090.1	3076.8	2843.7
22.5°	3536.9	3522.0	3525.0	3547.3	3569.5	3559.1	3502.7	3395.9	3277.1	3256.4	2984.7
25°	3538.4	3526.5	3566.6	3652.6	3700.1	3723.9	3694.2	3606.6	3480.5	3461.2	3164.3
27.5°	3563.6	3545.8	3588.8	3679.4	3823.3	3872.3	3882.7	3850.0	3741.7	3717.9	3379.5
30°	3498.3	3486.4	3551.7	3709.0	3878.2	4041.5	4100.9	4151.3	4090.5	4092.0	3712.0
32.5°	3385.5	3364.7	3464.1	3657.1	3971.7	4194.4	4351.7	4555.0	4648.5	4639.6	4290.8
35°	3170.3	3182.1	3315.7	3611.1	3974.7	4350.2	4658.9	5022.6	5276.4	5270.4	4890.5
37.5°	3017.4	3011.5	3168.8	3482.0	3973.2	4488.2	4957.3	5562.8	5890.8	5881.9	5405.5
40°	2833.4	2834.8	2992.2	3321.7	3903.5	4574.3	5266.0	6074.9	6408.8	6395.5	5898.2
42.5°	2636.0	2641.9	2788.8	3125.7	3807.0	4639.6	5542.0	6592.9	6916.4	6928.3	6293.0
45°	2459.3	2462.3	2607.8	2916.5	3636.3	4647.1	5789.9	7082.6	7397.3	7369.1	6707.1
47.5°	2199.6	2202.6	2417.8	2717.6	3410.7	4586.2	5994.7	7548.7	7836.6	7777.3	7057.4
50°	1723.2	1729.1	1984.4	2511.3	3136.1	4446.7	6156.5	7986.5	8209.2	8183.9	7416.6
52.5°	1591.1	1586.6	1693.5	2264.9	2889.8	4194.4	6258.9	8379.8	8605.4	8602.5	7713.4
55°	1524.3	1519.8	1555.5	1836.0	2647.8	3820.4	6255.9	8685.6	8933.5	8872.6	7985.0
57.5°	1405.5	1396.6	1488.7	1626.7	2377.7	3354.3	6107.5	8960.2	9170.9	9153.1	8229.9
60°	1320.9	1313.5	1375.9	1503.5	2089.8	2880.8	5726.1	9102.7	9409.9	9417.3	8436.2
62.5°	1233.4	1228.9	1282.4	1401.1	1864.2	2535.0	5138.3	8915.6	9558.3	9518.2	8642.5
65°	1133.9	1131.0	1181.4	1277.9	1640.1	2272.3	4562.5	8581.7	9424.7	9470.7	8669.3
67.5°	1015.2	1013.7	1062.7	1129.5	1395.2	2008.1	3680.8	8188.4	9043.3	8992.8	8326.4
70°	869.7	863.8	924.7	987.0	1168.1	1708.3	2864.5	7489.3	8422.9	8605.4	7643.7
72.5°	731.7	728.7	786.6	832.6	967.7	1395.2	2089.8	6477.1	7958.3	7695.6	6886.7
75°	572.9	558.1	618.9	662.0	762.9	1110.2	1424.8	4326.5	6698.2	6643.3	5785.4
77.5°	231.5	268.6	320.6	359.2	426.0	629.3	745.1	2052.7	4273.0	4461.5	4023.7
80°	89.1	95.0	228.6	258.3	286.5	362.1	286.5	865.3	1686.1	1838.9	2330.2
82.5°	50.5	56.4	112.8	108.3	106.9	92.0	106.9	424.5	880.1	964.7	1125.0
85°	28.2	31.2	46.0	50.5	43.0	37.1	32.7	111.3	219.7	207.8	233.0
87.5°	4.5	5.9	7.4	7.4	4.5	4.5	4.5	5.9	5.9	5.9	7.4
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°	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8
2.5°	2496.4	2480.1	2463.8	2444.5	2420.7	2405.9	2400.0	2407.4	2428.2	2402.9	2382.2
5°	2487.5	2465.3	2428.2	2391.1	2361.4	2336.1	2302.0	2299.0	2305.0	2294.6	2267.9
7.5°	2506.8	2474.2	2398.5	2373.2	2310.9	2251.5	2232.3	2224.8	2207.0	2186.2	2161.0
10°	2545.4	2478.6	2401.4	2327.2	2269.4	2205.5	2131.3	2132.8	2125.4	2101.6	2077.9
12.5°	2564.7	2486.0	2373.2	2294.6	2205.5	2126.9	2054.1	2021.5	2034.9	2015.6	1990.3
15°	2600.3	2517.2	2362.9	2247.1	2125.4	2036.3	1981.4	1933.9	1904.2	1908.7	1893.9
17.5°	2667.1	2545.4	2336.1	2195.1	2063.1	1957.7	1852.3	1847.8	1803.3	1778.1	1755.8
20°	2736.9	2595.9	2333.2	2138.7	1962.1	1831.5	1746.9	1699.4	1672.7	1651.9	1635.6
22.5°	2827.4	2665.6	2343.6	2106.1	1871.6	1724.7	1616.3	1552.5	1509.4	1494.6	1482.7
25°	2955.1	2753.2	2371.8	2048.2	1776.6	1607.4	1460.5	1393.7	1344.7	1332.8	1323.9
27.5°	3130.2	2864.5	2400.0	1985.9	1665.3	1442.7	1286.8	1221.5	1166.6	1165.1	1148.8
30°	3406.3	3035.2	2410.4	1931.0	1546.5	1266.0	1110.2	1049.3	1007.8	991.5	1003.3
32.5°	3921.3	3412.2	2475.7	1846.4	1396.6	1093.9	961.8	912.8	866.8	849.0	860.8
35°	4477.9	3863.4	2585.5	1788.5	1231.9	930.6	840.1	782.2	725.8	716.9	712.4
37.5°	4886.0	4274.5	2793.3	1693.5	1076.1	831.2	712.4	664.9	632.3	614.5	630.8
40°	5349.1	4615.9	2950.6	1592.6	917.2	725.8	593.7	578.8	564.0	552.1	569.9
42.5°	5715.7	4967.6	3137.6	1459.0	789.6	615.9	528.4	540.3	547.7	541.7	543.2
45°	6052.6	5228.9	3149.5	1255.6	673.8	534.3	509.1	532.8	550.6	547.7	546.2
47.5°	6382.1	5540.6	3177.7	1040.4	590.7	513.5	510.6	528.4	552.1	556.6	556.6
50°	6722.0	5778.0	3134.6	837.1	559.5	516.5	515.0	513.5	543.2	544.7	549.2
52.5°	6977.3	5971.0	2931.3	691.6	558.1	525.4	522.4	507.6	521.0	531.3	523.9
55°	7247.4	6211.4	2674.5	636.7	555.1	528.4	540.3	515.0	506.1	497.2	506.1
57.5°	7504.2	6379.1	2337.6	604.1	543.2	523.9	547.7	513.5	494.2	469.0	460.1
60°	7701.6	6417.7	1962.1	569.9	528.4	513.5	515.0	503.1	477.9	446.7	433.4
62.5°	7768.3	6440.0	1650.4	537.3	498.7	497.2	485.3	480.9	470.5	451.2	445.3
65°	7711.9	6187.7	1318.0	497.2	473.5	474.9	457.1	442.3	418.5	387.4	384.4
67.5°	7324.6	5743.9	1010.7	446.7	434.9	449.7	430.4	405.2	378.5	357.7	360.7
70°	6661.1	5218.5	709.5	377.0	390.3	417.1	409.6	377.0	347.3	329.5	332.5
72.5°	5923.5	4421.5	482.4	293.9	317.6	374.0	374.0	351.8	322.1	298.3	292.4
75°	4672.3	3473.0	311.7	194.4	209.3	305.7	331.0	296.8	264.2	249.3	243.4
77.5°	3171.8	2261.9	198.9	111.3	139.5	200.4	261.2	265.7	313.2	314.7	301.3
80°	1864.2	1294.2	121.7	65.3	69.8	115.8	209.3	262.7	332.5	234.5	215.2
82.5°	927.6	552.1	54.9	40.1	41.6	57.9	112.8	301.3	256.8	146.9	141.0
85°	206.3	90.5	22.3	20.8	23.7	29.7	57.9	249.3	157.3	118.7	115.8
87.5°	7.4	5.9	5.9	5.9	4.5	4.5	11.9	81.6	62.3	51.9	49.0
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)