

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: P509165

Luminaire Tested: **VERD-CA2-120-730-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509165
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-CA2-120-730-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16741 lumens
Efficiency: N/A
Efficacy: 136.4 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

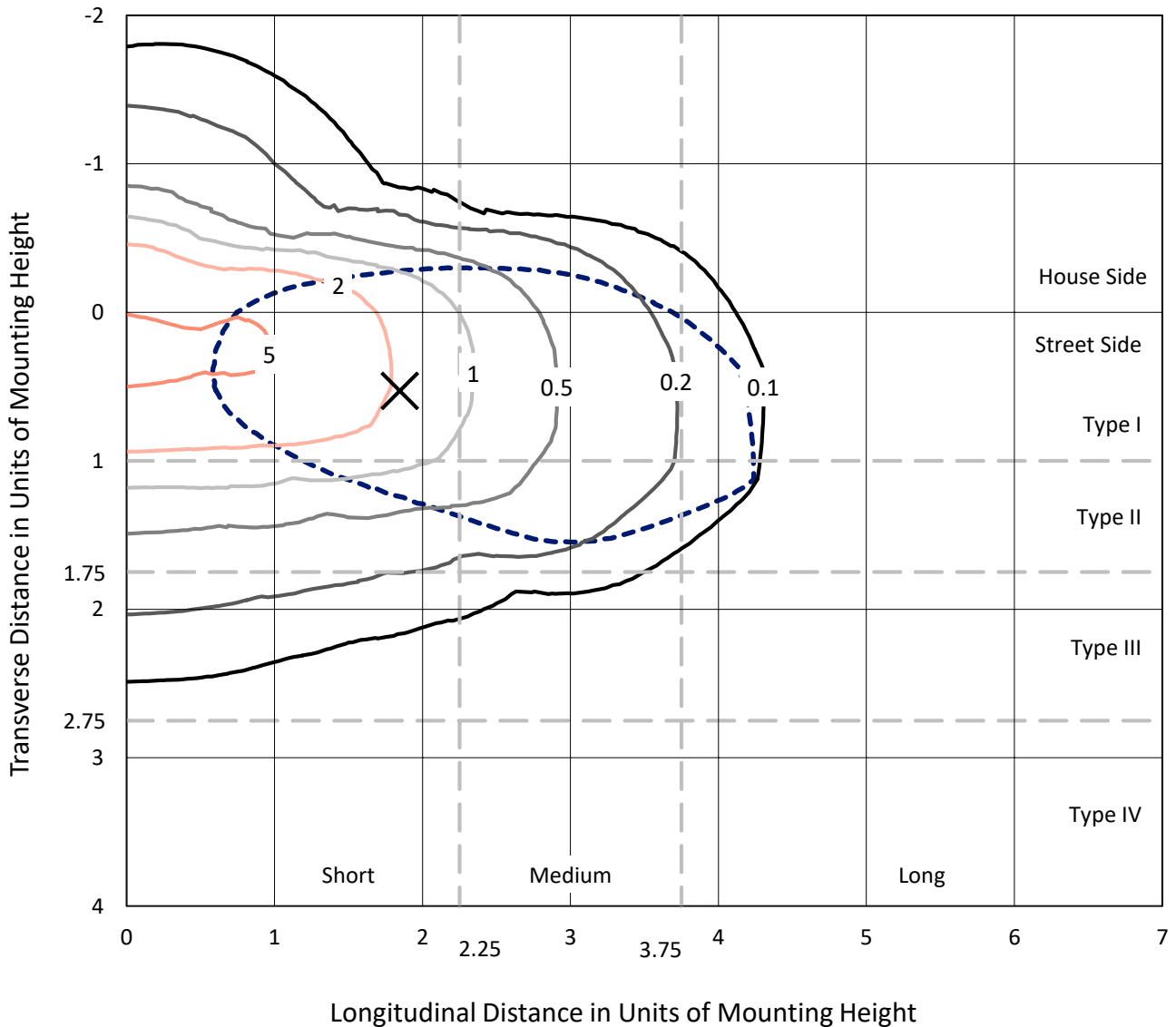
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

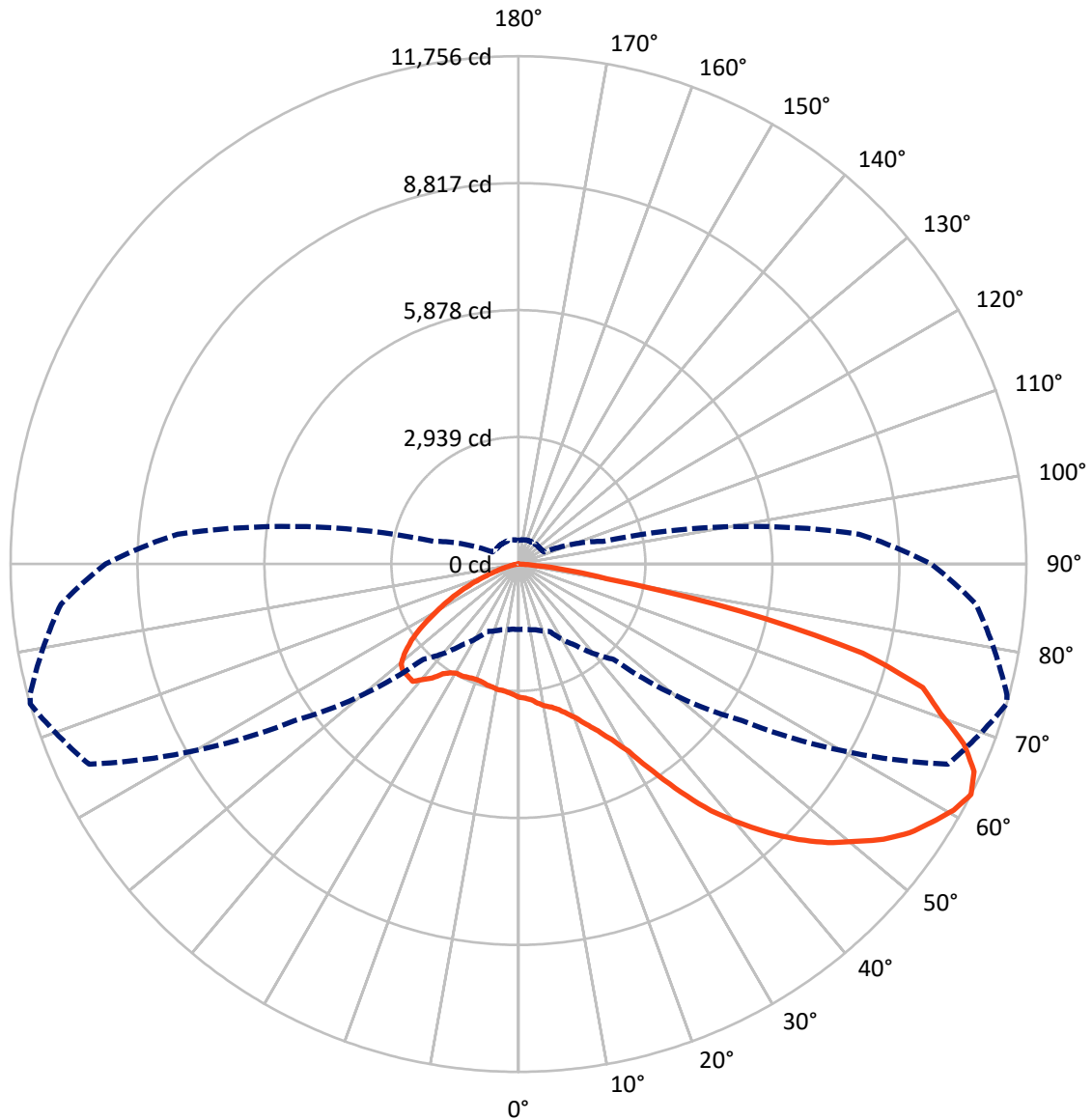
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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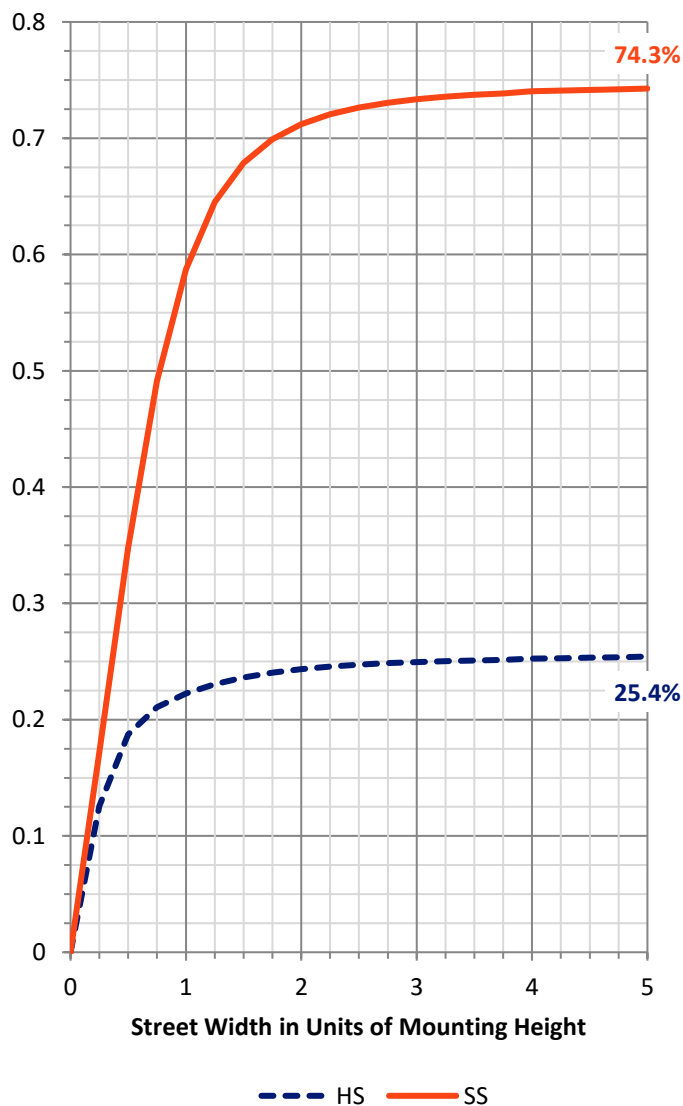
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.7	0.0	4322.7
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	12418.3	0.0	12418.3
	% Fixture	74.2	0.0	74.2
Total	Lumens	16741.0	0.0	16741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	1.8
10°-20°	904.4	5.4
20°-30°	1525.0	9.1
30°-40°	2228.0	13.3
40°-50°	2966.7	17.7
50°-60°	3414.1	20.4
60°-70°	3299.2	19.7
70°-80°	1899.2	11.3
80°-90°	207.8	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°	16741.0	100.0
0°-180°	16741.0	100.0

Coefficient of Utilization



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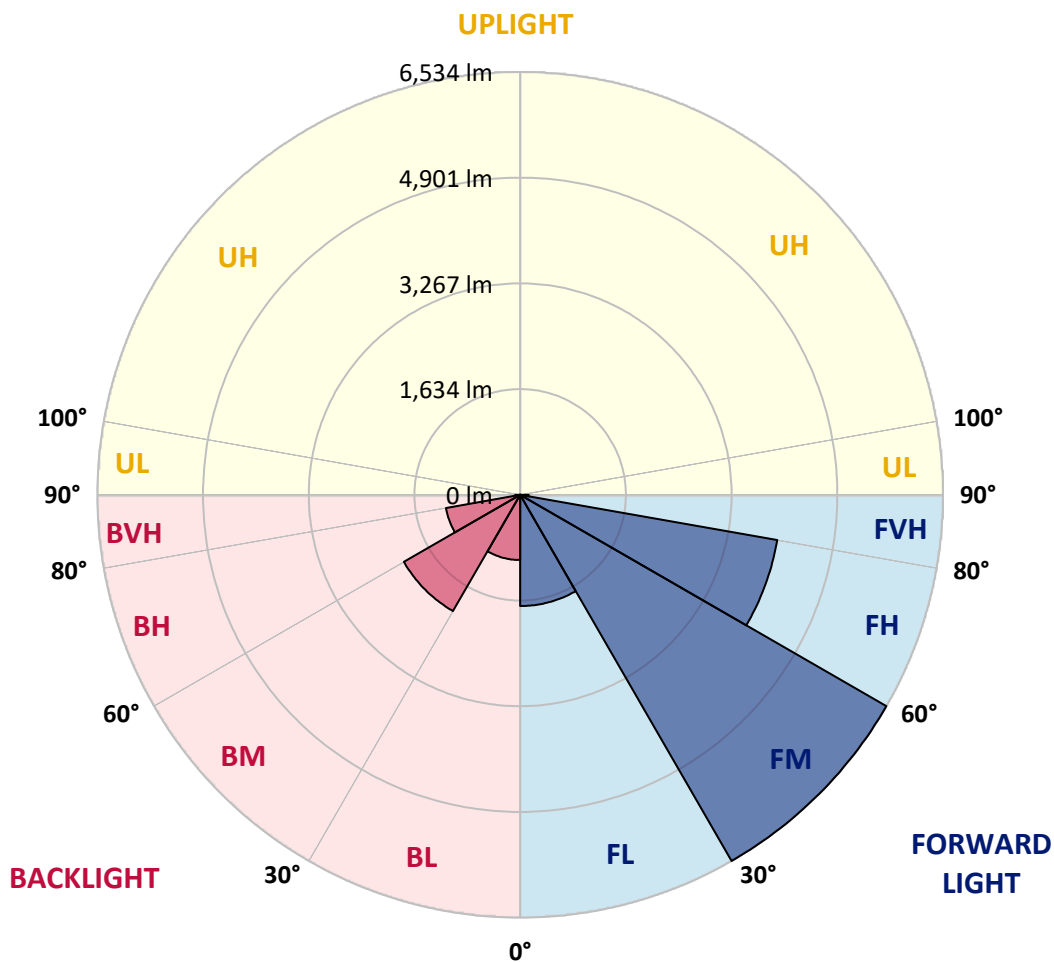
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.2	10.3			
FM (30°-60°)	6534.0	39.0			
FH (60°-80°)	4034.7	24.1			G2/5000
FVH (80°-90°)	131.4	0.8			G2/225
BL (0°-30°)	1007.8	6.0	B3/2500		
BM (30°-60°)	2074.8	12.4	B2/2500		
BH (60°-80°)	1163.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	76.4	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°	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0
2.5°	3304.2	3280.5	3265.9	3249.4	3229.3	3222.0	3178.2	3139.9	3108.9	3110.7	3090.6
5°	3424.7	3399.1	3366.3	3360.8	3335.2	3329.7	3287.8	3227.5	3160.0	3150.8	3090.6
7.5°	3559.8	3545.2	3525.1	3499.5	3457.5	3430.2	3369.9	3322.4	3253.1	3243.9	3125.3
10°	3724.1	3713.1	3698.5	3698.5	3643.7	3585.3	3512.3	3393.6	3338.9	3329.7	3185.5
12.5°	3917.6	3884.7	3837.2	3809.9	3758.7	3722.2	3643.7	3517.8	3399.1	3395.5	3242.1
15°	4043.5	4016.1	3985.1	3974.2	3908.4	3848.2	3764.2	3663.8	3497.7	3484.9	3311.5
17.5°	4184.1	4158.5	4122.0	4101.9	4060.0	3990.6	3915.7	3784.3	3636.4	3623.7	3390.0
20°	4262.6	4235.2	4224.3	4227.9	4213.3	4178.6	4089.2	3970.5	3800.7	3784.3	3497.7
22.5°	4350.2	4332.0	4335.6	4363.0	4390.4	4377.6	4308.2	4176.8	4030.7	4005.2	3671.1
25°	4352.0	4337.4	4386.7	4492.6	4551.0	4580.2	4543.7	4436.0	4280.8	4257.1	3892.0
27.5°	4383.1	4361.2	4414.1	4525.5	4702.5	4762.8	4775.6	4735.4	4602.1	4572.9	4156.7
30°	4302.7	4288.1	4368.5	4562.0	4770.1	4970.9	5043.9	5106.0	5031.1	5033.0	4565.6
32.5°	4164.0	4138.5	4260.8	4498.1	4885.1	5158.9	5352.4	5602.5	5717.5	5706.6	5277.6
35°	3899.3	3913.9	4078.2	4441.5	4888.7	5350.6	5730.3	6177.6	6489.7	6482.4	6015.1
37.5°	3711.3	3704.0	3897.5	4282.7	4886.9	5520.4	6097.2	6842.0	7245.5	7234.5	6648.5
40°	3484.9	3486.7	3680.2	4085.5	4801.1	5626.2	6476.9	7471.8	7882.6	7866.2	7254.6
42.5°	3242.1	3249.4	3430.2	3844.5	4682.5	5706.6	6816.5	8109.0	8506.9	8521.5	7740.2
45°	3024.9	3028.5	3207.4	3587.1	4472.5	5715.7	7121.3	8711.4	9098.4	9063.7	8249.5
47.5°	2705.4	2709.1	2973.8	3342.5	4195.0	5640.9	7373.3	9284.6	9638.7	9565.7	8680.3
50°	2119.4	2126.7	2440.7	3088.8	3857.3	5469.3	7572.3	9823.1	10096.9	10065.9	9122.1
52.5°	1957.0	1951.5	2082.9	2785.7	3554.3	5158.9	7698.2	10306.9	10584.4	10580.7	9487.2
55°	1874.8	1869.3	1913.1	2258.2	3256.7	4698.9	7694.6	10682.9	10987.8	10913.0	9821.3
57.5°	1728.8	1717.8	1831.0	2000.8	2924.5	4125.7	7512.0	11020.7	11279.9	11258.0	10122.5
60°	1624.7	1615.6	1692.3	1849.3	2570.3	3543.3	7042.9	11195.9	11573.8	11582.9	10376.3
62.5°	1517.0	1511.5	1577.2	1723.3	2292.9	3118.0	6319.9	10965.9	11756.3	11707.1	10630.0
65°	1394.7	1391.0	1453.1	1571.8	2017.2	2794.9	5611.6	10555.2	11592.0	11648.6	10662.9
67.5°	1248.7	1246.8	1307.1	1389.2	1716.0	2469.9	4527.3	10071.4	11122.9	11060.8	10241.2
70°	1069.8	1062.5	1137.3	1214.0	1436.7	2101.2	3523.3	9211.6	10359.8	10584.4	9401.4
72.5°	900.0	896.3	967.5	1024.1	1190.2	1716.0	2570.3	7966.6	9788.4	9465.3	8470.4
75°	704.7	686.4	761.2	814.2	938.3	1365.5	1752.5	5321.4	8238.6	8171.0	7115.9
77.5°	284.8	330.4	394.3	441.8	523.9	774.0	916.4	2524.7	5255.7	5487.5	4949.0
80°	109.5	116.8	281.1	317.6	352.3	445.4	352.3	1064.3	2073.8	2261.8	2866.1
82.5°	62.1	69.4	138.7	133.3	131.4	113.2	131.4	522.1	1082.5	1186.6	1383.7
85°	34.7	38.3	56.6	62.1	52.9	45.6	40.2	136.9	270.2	255.6	286.6
87.5°	5.5	7.3	9.1	9.1	5.5	5.5	5.5	7.3	7.3	7.3	9.1
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°	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0	3087.0
2.5°	3070.5	3050.4	3030.4	3006.6	2977.4	2959.2	2951.9	2961.0	2986.5	2955.5	2930.0
5°	3059.6	3032.2	2986.5	2940.9	2904.4	2873.4	2831.4	2827.7	2835.0	2822.3	2789.4
7.5°	3083.3	3043.1	2950.0	2919.0	2842.3	2769.3	2745.6	2736.5	2714.5	2689.0	2658.0
10°	3130.8	3048.6	2953.7	2862.4	2791.2	2712.7	2621.4	2623.3	2614.1	2584.9	2555.7
12.5°	3154.5	3057.7	2919.0	2822.3	2712.7	2616.0	2526.5	2486.4	2502.8	2479.1	2448.0
15°	3198.3	3096.1	2906.2	2763.8	2614.1	2504.6	2437.1	2378.7	2342.1	2347.6	2329.4
17.5°	3280.5	3130.8	2873.4	2699.9	2537.5	2407.9	2278.2	2272.8	2218.0	2187.0	2159.6
20°	3366.3	3192.8	2869.7	2630.6	2413.3	2252.7	2148.6	2090.2	2057.4	2031.8	2011.7
22.5°	3477.6	3278.6	2882.5	2590.4	2302.0	2121.3	1988.0	1909.5	1856.6	1838.3	1823.7
25°	3634.6	3386.3	2917.2	2519.2	2185.1	1977.0	1796.3	1714.2	1653.9	1639.3	1628.4
27.5°	3850.0	3523.3	2951.9	2442.5	2048.2	1774.4	1582.7	1502.4	1434.9	1433.0	1413.0
30°	4189.6	3733.2	2964.6	2375.0	1902.2	1557.2	1365.5	1290.6	1239.5	1219.4	1234.1
32.5°	4823.0	4196.9	3045.0	2270.9	1717.8	1345.4	1182.9	1122.7	1066.1	1044.2	1058.8
35°	5507.6	4751.8	3180.1	2199.8	1515.2	1144.6	1033.2	962.0	892.7	881.7	876.2
37.5°	6009.6	5257.5	3435.6	2082.9	1323.5	1022.3	876.2	817.8	777.7	755.8	775.8
40°	6579.2	5677.4	3629.1	1958.8	1128.2	892.7	730.2	712.0	693.7	679.1	701.0
42.5°	7030.1	6110.0	3859.1	1794.5	971.2	757.6	649.9	664.5	673.6	666.3	668.1
45°	7444.5	6431.3	3873.8	1544.4	828.8	657.2	626.2	655.4	677.3	673.6	671.8
47.5°	7849.7	6814.7	3908.4	1279.7	726.6	631.6	628.0	649.9	679.1	684.6	684.6
50°	8267.8	7106.7	3855.5	1029.6	688.2	635.3	633.5	631.6	668.1	670.0	675.4
52.5°	8581.8	7344.1	3605.4	850.7	686.4	646.2	642.6	624.3	640.8	653.5	644.4
55°	8914.0	7639.8	3289.6	783.1	682.7	649.9	664.5	633.5	622.5	611.5	622.5
57.5°	9229.8	7846.1	2875.2	743.0	668.1	644.4	673.6	631.6	607.9	576.9	565.9
60°	9472.6	7893.5	2413.3	701.0	649.9	631.6	633.5	618.9	587.8	549.5	533.1
62.5°	9554.8	7920.9	2030.0	660.8	613.4	611.5	596.9	591.5	578.7	555.0	547.7
65°	9485.4	7610.6	1621.1	611.5	582.3	584.2	562.3	544.0	514.8	476.5	472.8
67.5°	9008.9	7064.8	1243.2	549.5	534.9	553.1	529.4	498.4	465.5	440.0	443.6
70°	8192.9	6418.5	872.6	463.7	480.1	513.0	503.8	463.7	427.2	405.3	408.9
72.5°	7285.6	5438.2	593.3	361.5	390.7	460.0	460.0	432.6	396.1	366.9	359.6
75°	5746.7	4271.7	383.4	239.1	257.4	376.1	407.1	365.1	324.9	306.7	299.4
77.5°	3901.1	2782.1	244.6	136.9	171.6	246.4	321.3	326.8	385.2	387.0	370.6
80°	2292.9	1591.9	149.7	80.3	85.8	142.4	257.4	323.1	408.9	288.4	264.7
82.5°	1140.9	679.1	67.5	49.3	51.1	71.2	138.7	370.6	315.8	180.7	173.4
85°	253.7	111.4	27.4	25.6	29.2	36.5	71.2	306.7	193.5	146.0	142.4
87.5°	9.1	7.3	7.3	7.3	5.5	5.5	14.6	100.4	76.7	63.9	60.2
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)