

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: P509157

Luminaire Tested: **VERD-CA2-120-727-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509157
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-CA2-120-727-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14438 lumens
Efficiency: N/A
Efficacy: 117.7 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

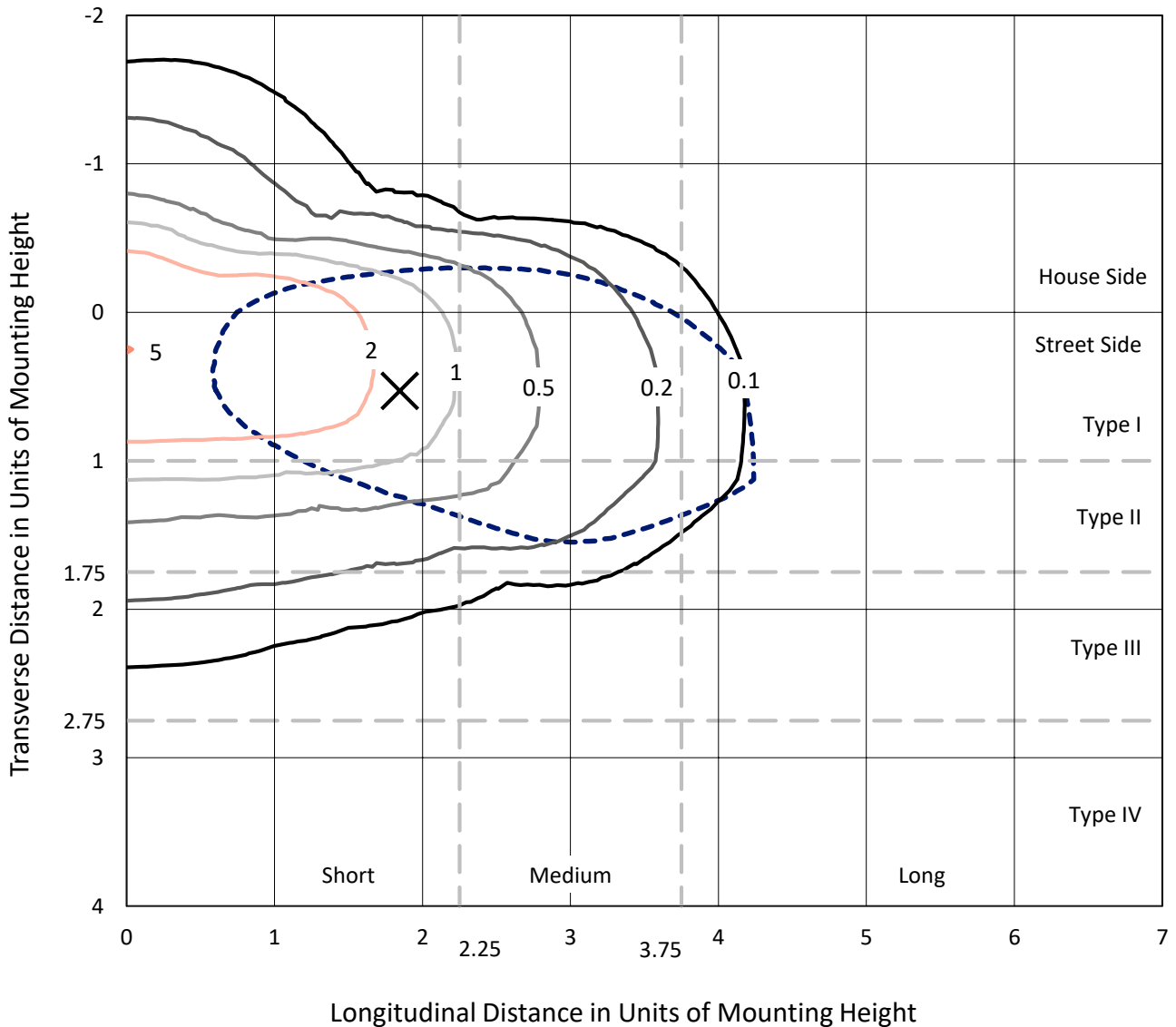
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

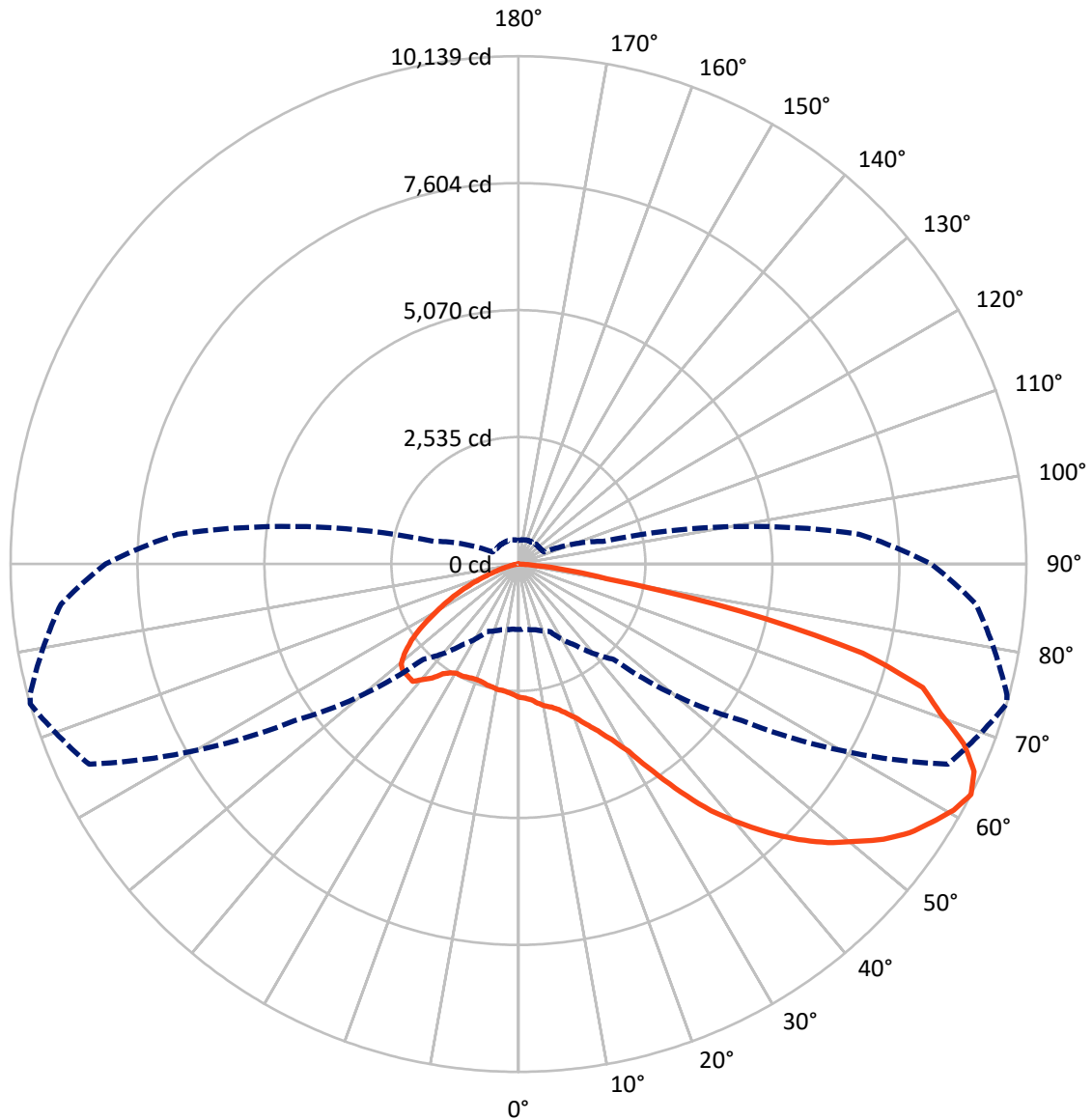
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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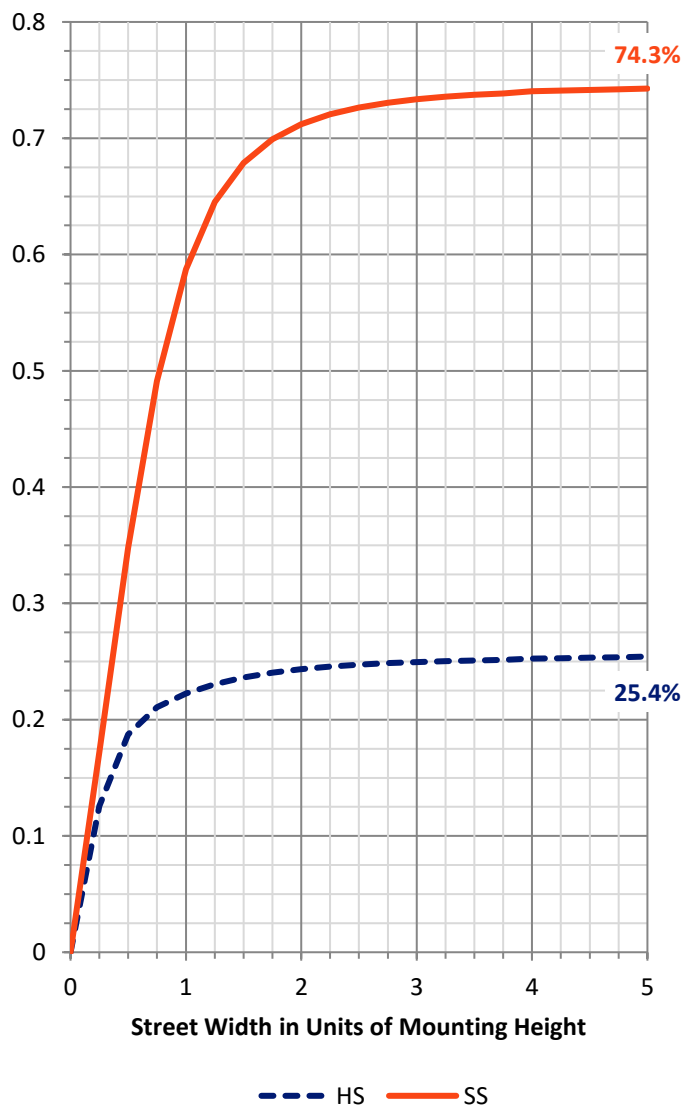
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3728.0	0.0	3728.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	10710.0	0.0	10710.0
	% Fixture	74.2	0.0	74.2
Total	Lumens	14438.0	0.0	14438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.8
10°-20°	780.0	5.4
20°-30°	1315.2	9.1
30°-40°	1921.5	13.3
40°-50°	2558.6	17.7
50°-60°	2944.4	20.4
60°-70°	2845.3	19.7
70°-80°	1638.0	11.3
80°-90°	179.2	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°	14438.0	100.0
0°-180°	14438.0	100.0

Coefficient of Utilization



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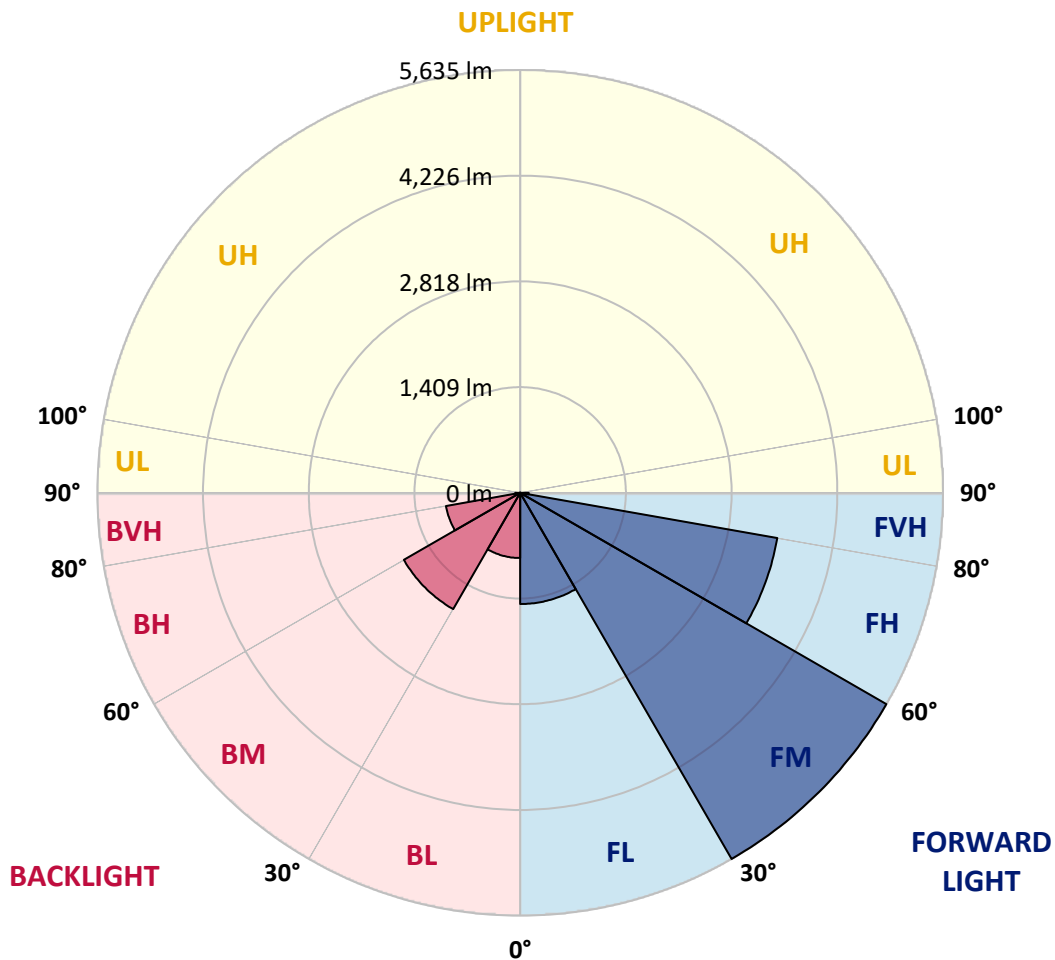
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.8	10.3			
FM (30°-60°)	5635.2	39.0			
FH (60°-80°)	3479.7	24.1			G2/5000
FVH (80°-90°)	113.3	0.8			G2/225
BL (0°-30°)	869.2	6.0	B2/1000		
BM (30°-60°)	1789.4	12.4	B2/2500		
BH (60°-80°)	1003.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	65.9	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°	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3
2.5°	2849.6	2829.2	2816.6	2802.4	2785.1	2778.8	2741.0	2707.9	2681.2	2682.8	2665.4
5°	2953.6	2931.5	2903.2	2898.4	2876.4	2871.7	2835.5	2783.5	2725.3	2717.4	2665.4
7.5°	3070.1	3057.5	3040.1	3018.1	2981.9	2958.3	2906.3	2865.4	2805.6	2797.7	2695.4
10°	3211.8	3202.3	3189.7	3189.7	3142.5	3092.1	3029.1	2926.8	2879.6	2871.7	2747.3
12.5°	3378.6	3350.3	3309.4	3285.7	3241.7	3210.2	3142.5	3033.8	2931.5	2928.4	2796.1
15°	3487.3	3463.7	3436.9	3427.4	3370.8	3318.8	3246.4	3159.8	3016.5	3005.5	2855.9
17.5°	3608.5	3586.5	3555.0	3537.7	3501.4	3441.6	3377.1	3263.7	3136.2	3125.2	2923.6
20°	3676.2	3652.6	3643.1	3646.3	3633.7	3603.8	3526.6	3424.3	3277.9	3263.7	3016.5
22.5°	3751.8	3736.0	3739.2	3762.8	3786.4	3775.4	3715.6	3602.2	3476.3	3454.2	3166.1
25°	3753.3	3740.7	3783.3	3874.6	3925.0	3950.1	3918.7	3825.8	3691.9	3671.5	3356.6
27.5°	3780.1	3761.2	3806.9	3902.9	4055.6	4107.6	4118.6	4084.0	3969.0	3943.8	3584.9
30°	3710.8	3698.2	3767.5	3934.4	4113.9	4287.1	4350.0	4403.6	4339.0	4340.6	3937.5
32.5°	3591.2	3569.1	3674.6	3879.3	4213.1	4449.2	4616.1	4831.8	4931.0	4921.5	4551.6
35°	3362.9	3375.5	3517.2	3830.5	4216.2	4614.5	4942.0	5327.7	5597.0	5590.7	5187.6
37.5°	3200.7	3194.4	3361.3	3693.5	4214.6	4761.0	5258.5	5900.8	6248.7	6239.3	5733.9
40°	3005.5	3007.1	3174.0	3523.5	4140.6	4852.3	5585.9	6444.0	6798.2	6784.0	6256.6
42.5°	2796.1	2802.4	2958.3	3315.7	4038.3	4921.5	5878.8	6993.4	7336.7	7349.2	6675.4
45°	2608.8	2611.9	2766.2	3093.7	3857.3	4929.4	6141.7	7513.0	7846.8	7816.8	7114.7
47.5°	2333.2	2336.4	2564.7	2882.7	3617.9	4864.9	6359.0	8007.3	8312.8	8249.8	7486.2
50°	1827.9	1834.2	2105.0	2663.9	3326.7	4716.9	6530.6	8471.8	8707.9	8681.2	7867.2
52.5°	1687.7	1683.0	1796.4	2402.5	3065.3	4449.2	6639.2	8889.0	9128.3	9125.2	8182.1
55°	1616.9	1612.2	1650.0	1947.5	2808.7	4052.5	6636.0	9213.3	9476.2	9411.7	8470.2
57.5°	1490.9	1481.5	1579.1	1725.5	2522.2	3558.1	6478.6	9504.6	9728.1	9709.3	8730.0
60°	1401.2	1393.3	1459.5	1594.9	2216.7	3055.9	6074.0	9655.7	9981.6	9989.5	8948.8
62.5°	1308.3	1303.6	1360.3	1486.2	1977.4	2689.1	5450.5	9457.4	10139.1	10096.6	9167.7
65°	1202.8	1199.7	1253.2	1355.5	1739.7	2410.4	4839.7	9103.1	9997.4	10046.2	9196.0
67.5°	1076.9	1075.3	1127.3	1198.1	1479.9	2130.1	3904.5	8685.9	9592.8	9539.2	8832.3
70°	922.6	916.3	980.8	1047.0	1239.0	1812.1	3038.6	7944.4	8934.7	9128.3	8108.1
72.5°	776.2	773.0	834.4	883.2	1026.5	1479.9	2216.7	6870.6	8441.9	8163.2	7305.2
75°	607.7	592.0	656.5	702.2	809.2	1177.6	1511.4	4589.3	7105.2	7047.0	6137.0
77.5°	245.6	285.0	340.1	381.0	451.8	667.5	790.3	2177.4	4532.7	4732.6	4268.2
80°	94.5	100.8	242.5	273.9	303.9	384.2	303.9	917.9	1788.5	1950.7	2471.8
82.5°	53.5	59.8	119.7	114.9	113.4	97.6	113.4	450.3	933.6	1023.4	1193.4
85°	29.9	33.1	48.8	53.5	45.7	39.4	34.6	118.1	233.0	220.4	247.2
87.5°	4.7	6.3	7.9	7.9	4.7	4.7	4.7	6.3	6.3	6.3	7.9
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°	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3	2662.3
2.5°	2648.1	2630.8	2613.5	2593.0	2567.8	2552.1	2545.8	2553.7	2575.7	2548.9	2526.9
5°	2638.7	2615.1	2575.7	2536.3	2504.9	2478.1	2441.9	2438.7	2445.0	2434.0	2405.7
7.5°	2659.1	2624.5	2544.2	2517.4	2451.3	2388.3	2367.9	2360.0	2341.1	2319.1	2292.3
10°	2700.1	2629.2	2547.4	2468.6	2407.2	2339.5	2260.8	2262.4	2254.5	2229.3	2204.1
12.5°	2720.5	2637.1	2517.4	2434.0	2339.5	2256.1	2179.0	2144.3	2158.5	2138.0	2111.3
15°	2758.3	2670.2	2506.4	2383.6	2254.5	2160.1	2101.8	2051.4	2019.9	2024.7	2008.9
17.5°	2829.2	2700.1	2478.1	2328.5	2188.4	2076.6	1964.8	1960.1	1912.9	1886.1	1862.5
20°	2903.2	2753.6	2474.9	2268.7	2081.3	1942.8	1853.1	1802.7	1774.3	1752.3	1735.0
22.5°	2999.2	2827.6	2486.0	2234.1	1985.3	1829.4	1714.5	1646.8	1601.2	1585.4	1572.8
25°	3134.6	2920.5	2515.9	2172.7	1884.5	1705.1	1549.2	1478.4	1426.4	1413.8	1404.4
27.5°	3320.4	3038.6	2545.8	2106.5	1766.5	1530.3	1365.0	1295.7	1237.5	1235.9	1218.6
30°	3613.2	3219.6	2556.8	2048.3	1640.5	1343.0	1177.6	1113.1	1069.0	1051.7	1064.3
32.5°	4159.5	3619.5	2626.1	1958.5	1481.5	1160.3	1020.2	968.2	919.4	900.6	913.1
35°	4749.9	4098.1	2742.6	1897.1	1306.7	987.1	891.1	829.7	769.9	760.4	755.7
37.5°	5182.9	4534.2	2963.0	1796.4	1141.4	881.7	755.7	705.3	670.7	651.8	669.1
40°	5674.1	4896.3	3129.9	1689.3	973.0	769.9	629.8	614.0	598.3	585.7	604.6
42.5°	6063.0	5269.5	3328.3	1547.6	837.6	653.4	560.5	573.1	580.9	574.7	576.2
45°	6420.4	5546.6	3340.9	1331.9	714.8	566.8	540.0	565.2	584.1	580.9	579.4
47.5°	6769.9	5877.2	3370.8	1103.6	626.6	544.7	541.6	560.5	585.7	590.4	590.4
50°	7130.4	6129.1	3325.1	888.0	593.5	547.9	546.3	544.7	576.2	577.8	582.5
52.5°	7401.2	6333.8	3109.4	733.7	592.0	557.3	554.2	538.4	552.6	563.6	555.8
55°	7687.7	6588.8	2837.0	675.4	588.8	560.5	573.1	546.3	536.9	527.4	536.9
57.5°	7960.1	6766.7	2479.7	640.8	576.2	555.8	580.9	544.7	524.3	497.5	488.1
60°	8169.5	6807.7	2081.3	604.6	560.5	544.7	546.3	533.7	507.0	473.9	459.7
62.5°	8240.4	6831.3	1750.7	569.9	529.0	527.4	514.8	510.1	499.1	478.6	472.3
65°	8180.5	6563.6	1398.1	527.4	502.2	503.8	484.9	469.2	444.0	410.9	407.8
67.5°	7769.6	6092.9	1072.2	473.9	461.3	477.0	456.6	429.8	401.5	379.4	382.6
70°	7065.9	5535.6	752.6	399.9	414.1	442.4	434.5	399.9	368.4	349.5	352.7
72.5°	6283.4	4690.1	511.7	311.7	336.9	396.7	396.7	373.1	341.6	316.5	310.2
75°	4956.2	3684.1	330.6	206.2	222.0	324.3	351.1	314.9	280.2	264.5	258.2
77.5°	3364.5	2399.4	211.0	118.1	148.0	212.5	277.1	281.8	332.2	333.8	319.6
80°	1977.4	1372.9	129.1	69.3	74.0	122.8	222.0	278.7	352.7	248.8	228.3
82.5°	984.0	585.7	58.3	42.5	44.1	61.4	119.7	319.6	272.4	155.9	149.6
85°	218.8	96.0	23.6	22.0	25.2	31.5	61.4	264.5	166.9	126.0	122.8
87.5°	7.9	6.3	6.3	6.3	4.7	4.7	12.6	86.6	66.1	55.1	52.0
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)