

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: P509159

Luminaire Tested: **VERD-CA2-120-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
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-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14537 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

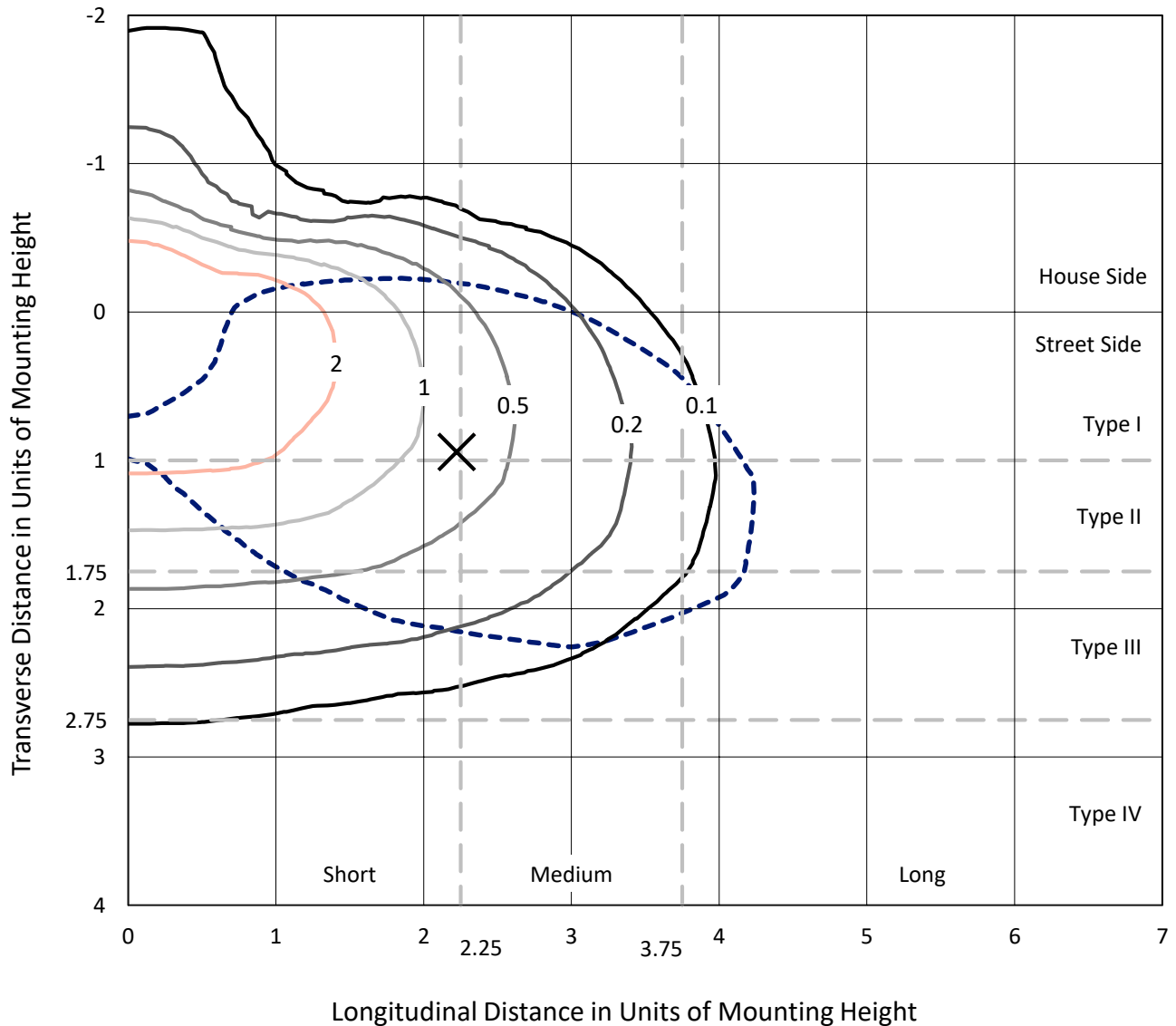
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

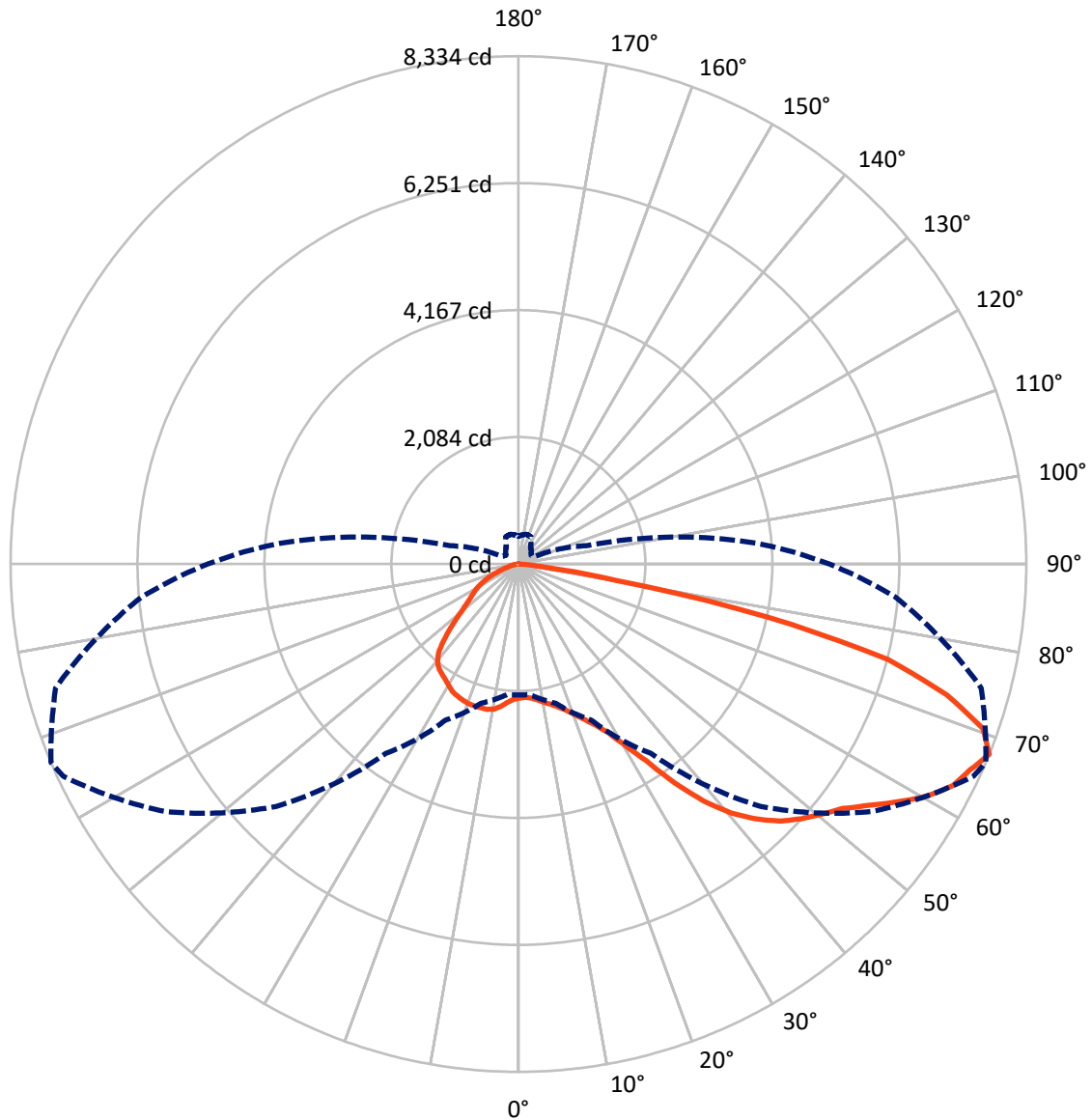
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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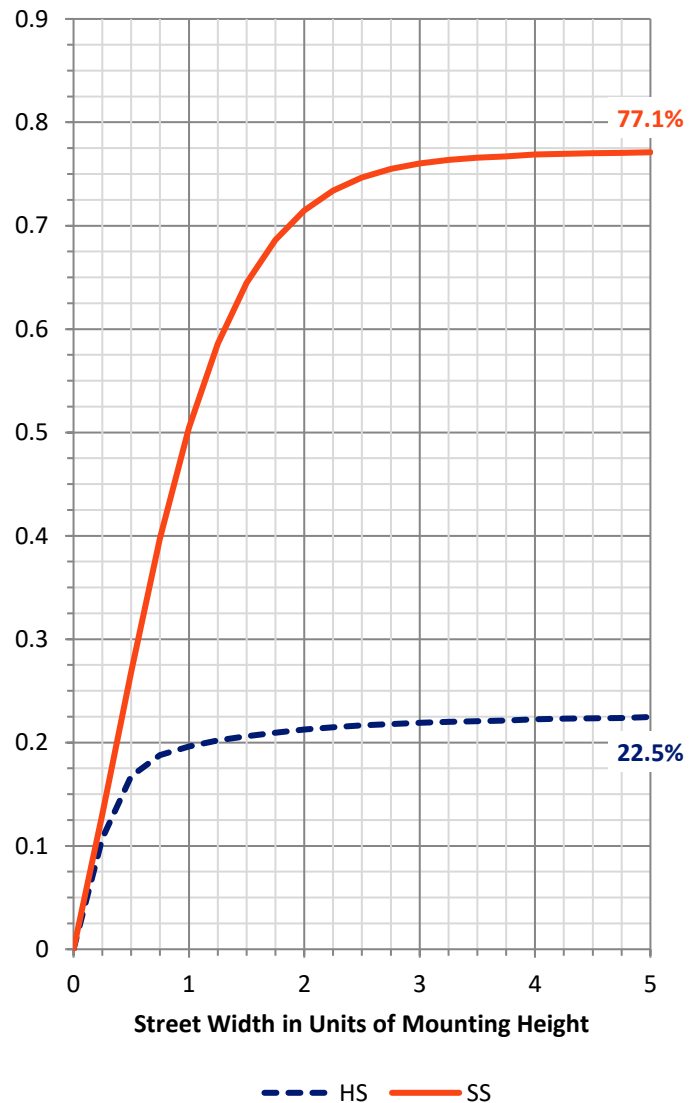
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3324.0	0.0	3324.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11213.0	0.0	11213.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	14537.0	0.0	14537.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.5
10°-20°	712.8	4.9
20°-30°	1231.6	8.5
30°-40°	1869.5	12.9
40°-50°	2540.3	17.5
50°-60°	3021.2	20.8
60°-70°	3108.4	21.4
70°-80°	1695.7	11.7
80°-90°	134.7	0.9
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°	14537.0	100.0
0°-180°	14537.0	100.0



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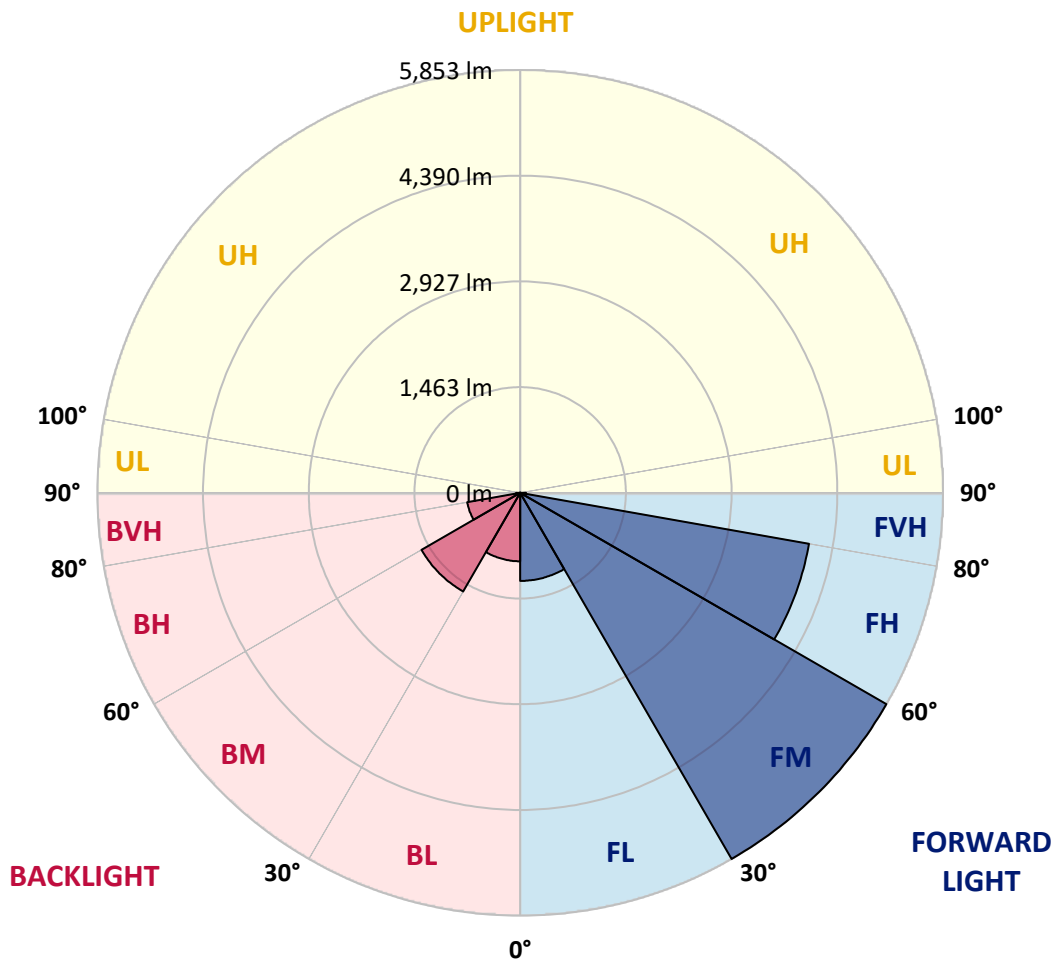
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.3	8.4			
FM (30°-60°)	5853.2	40.3			
FH (60°-80°)	4059.9	27.9			G2/5000
FVH (80°-90°)	80.6	0.6			G1/100
BL (0°-30°)	947.8	6.5	B2/1000		
BM (30°-60°)	1577.8	10.9	B2/2500		
BH (60°-80°)	744.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	54.1	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2
2.5°	2211.8	2202.4	2189.8	2194.5	2185.0	2200.8	2194.5	2191.3	2191.3	2192.9	2200.8
5°	2262.2	2252.7	2243.3	2241.7	2222.8	2229.1	2219.7	2210.2	2210.2	2208.7	2211.8
7.5°	2350.3	2337.7	2326.7	2325.1	2301.5	2298.4	2270.1	2251.2	2251.2	2249.6	2254.3
10°	2466.8	2462.1	2440.1	2425.9	2397.6	2378.7	2344.0	2314.1	2307.8	2298.4	2311.0
12.5°	2578.6	2577.0	2556.6	2540.8	2501.5	2468.4	2411.7	2370.8	2362.9	2351.9	2361.4
15°	2718.7	2704.5	2682.5	2673.1	2616.4	2566.0	2501.5	2440.1	2432.2	2419.6	2427.5
17.5°	2873.0	2865.1	2830.5	2819.5	2748.6	2690.4	2610.1	2531.4	2518.8	2501.5	2499.9
20°	3058.7	3044.6	3017.8	2986.3	2917.1	2833.6	2740.7	2651.0	2640.0	2625.8	2595.9
22.5°	3258.7	3242.9	3216.2	3183.1	3095.0	3006.8	2890.3	2777.0	2770.7	2761.2	2706.1
25°	3449.2	3422.4	3425.5	3394.1	3315.3	3203.6	3066.6	2931.2	2928.1	2926.5	2838.3
27.5°	3652.2	3623.9	3614.4	3603.4	3529.4	3424.0	3269.7	3140.6	3129.6	3131.2	2997.3
30°	3842.7	3830.1	3822.2	3814.4	3778.2	3683.7	3535.7	3420.8	3455.5	3452.3	3268.1
32.5°	3990.7	3981.2	4014.3	4052.1	4042.6	3963.9	3861.6	3809.7	3844.3	3956.1	3795.5
35°	4121.4	4116.6	4179.6	4259.9	4316.6	4259.9	4248.9	4329.2	4409.4	4595.2	4502.3
37.5°	4263.0	4256.7	4310.3	4447.2	4546.4	4563.7	4647.1	4853.4	4930.5	5116.3	4921.1
40°	4261.5	4269.3	4398.4	4573.2	4754.2	4900.6	5072.2	5272.1	5371.3	5459.5	5157.2
42.5°	4192.2	4196.9	4359.1	4691.2	4954.1	5242.2	5394.9	5651.5	5719.2	5736.5	5435.8
45°	4121.4	4124.5	4300.8	4673.9	5121.0	5561.8	5731.8	5966.4	6018.3	5958.5	5624.7
47.5°	4019.0	4039.5	4230.0	4656.6	5264.2	5856.2	5993.1	6226.1	6246.6	6171.0	5782.2
50°	3897.8	3908.8	4127.7	4599.9	5358.7	6038.8	6200.9	6411.9	6451.2	6366.2	5977.4
52.5°	3749.8	3759.3	3997.0	4524.4	5410.7	6178.9	6359.9	6611.8	6665.3	6627.5	6149.0
55°	3579.8	3584.5	3827.0	4401.6	5396.5	6240.3	6498.5	6895.2	6984.9	6892.0	6292.2
57.5°	3367.3	3384.6	3660.1	4217.4	5289.4	6317.4	6748.8	7244.6	7359.6	7161.2	6399.3
60°	3148.5	3165.8	3416.1	4003.3	5110.0	6352.0	7006.9	7620.9	7721.6	7416.2	6465.4
62.5°	2902.9	2926.5	3134.3	3680.6	4788.8	6306.4	7197.4	7949.9	8006.6	7568.9	6448.1
65°	2545.5	2558.1	2784.8	3291.7	4370.1	6068.7	7189.5	8126.2	8145.1	7737.4	6372.5
67.5°	2148.8	2150.4	2364.5	2822.6	3793.9	5624.7	7079.3	8241.1	8334.0	7861.7	6207.2
70°	1634.1	1656.1	1823.0	2163.0	3101.2	4866.0	6715.7	8127.8	8083.7	7521.7	5733.4
72.5°	1166.5	1153.9	1238.9	1468.8	2170.9	3754.6	5790.0	7343.8	7353.3	6851.1	4988.8
75°	620.2	623.4	695.8	889.4	1108.3	2443.2	4631.4	6204.1	6260.7	5875.1	3904.1
77.5°	138.5	157.4	239.3	340.0	481.7	782.4	2512.5	4069.4	4176.5	3866.3	2139.4
80°	107.0	108.6	157.4	193.6	212.5	374.7	798.1	1476.6	1638.8	1547.5	804.4
82.5°	70.8	72.4	103.9	107.0	102.3	171.6	362.1	442.4	486.4	425.0	299.1
85°	37.8	39.4	47.2	51.9	40.9	50.4	47.2	37.8	39.4	34.6	34.6
87.5°	7.9	4.7	6.3	4.7	4.7	3.1	4.7	4.7	4.7	4.7	4.7
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°	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2	2199.2
2.5°	2200.8	2203.9	2211.8	2224.4	2230.7	2244.9	2254.3	2277.9	2311.0	2300.0	2285.8
5°	2213.4	2222.8	2249.6	2282.6	2307.8	2345.6	2364.5	2410.2	2447.9	2444.8	2419.6
7.5°	2260.6	2281.1	2314.1	2362.9	2405.4	2443.2	2470.0	2518.8	2553.4	2539.2	2515.6
10°	2320.4	2340.9	2377.1	2421.2	2452.7	2493.6	2510.9	2550.3	2572.3	2555.0	2534.5
12.5°	2375.5	2386.5	2411.7	2444.8	2462.1	2488.9	2496.7	2525.1	2545.5	2537.7	2512.5
15°	2429.0	2427.5	2432.2	2441.6	2447.9	2454.2	2455.8	2476.3	2490.4	2474.7	2457.4
17.5°	2488.9	2473.1	2452.7	2436.9	2413.3	2402.3	2381.8	2391.3	2389.7	2377.1	2362.9
20°	2564.4	2536.1	2473.1	2424.3	2362.9	2314.1	2271.6	2263.8	2263.8	2229.1	2227.5
22.5°	2654.2	2606.9	2501.5	2394.4	2295.2	2218.1	2139.4	2093.7	2060.7	2035.5	2024.5
25°	2770.7	2684.1	2526.7	2353.5	2207.1	2067.0	1948.9	1885.9	1823.0	1782.0	1775.7
27.5°	2895.0	2800.6	2542.4	2317.3	2085.9	1893.8	1730.1	1601.0	1542.8	1516.0	1490.8
30°	3098.1	2931.2	2570.7	2240.1	1933.2	1681.3	1464.0	1312.9	1256.2	1237.4	1221.6
32.5°	3590.8	3269.7	2597.5	2161.4	1769.4	1446.7	1160.2	1032.7	983.9	1002.8	1009.1
35°	4207.9	3773.4	2725.0	2070.1	1599.4	1180.7	892.6	807.6	810.7	839.1	848.5
37.5°	4626.7	4217.4	2984.8	1955.2	1355.4	875.3	691.1	664.3	687.9	713.1	717.9
40°	4872.3	4420.5	3167.4	1813.5	1067.3	654.9	519.5	500.6	551.0	607.7	642.3
42.5°	5133.6	4593.6	3261.8	1629.3	749.3	473.8	398.3	412.5	492.7	541.5	563.6
45°	5273.7	4729.0	3219.3	1366.4	510.1	368.4	357.4	396.7	477.0	521.1	527.4
47.5°	5424.8	4864.4	3117.0	1092.5	390.4	349.5	351.1	398.3	480.1	527.4	527.4
50°	5555.5	4976.2	2934.4	856.4	371.5	336.9	352.6	406.2	484.9	525.8	524.2
52.5°	5706.6	5026.5	2674.6	692.7	352.6	325.9	354.2	412.5	477.0	500.6	497.5
55°	5753.8	4990.3	2550.3	579.3	338.5	319.6	360.5	421.9	473.8	478.6	470.7
57.5°	5753.8	4892.7	2408.6	494.3	325.9	319.6	363.6	420.3	491.2	521.1	517.9
60°	5728.6	4790.4	2191.3	442.4	308.6	316.4	365.2	443.9	584.0	617.1	615.5
62.5°	5648.4	4625.1	1923.7	390.4	291.2	318.0	360.5	477.0	667.5	653.3	618.7
65°	5457.9	4313.4	1560.1	343.2	272.3	318.0	354.2	524.2	593.5	566.7	554.1
67.5°	5099.0	3921.4	1160.2	294.4	250.3	297.5	344.8	491.2	503.8	473.8	455.0
70°	4625.1	3321.6	744.6	248.7	226.7	280.2	338.5	461.3	486.4	450.2	426.6
72.5°	3853.7	2638.4	431.3	203.1	192.1	258.2	325.9	447.1	478.6	429.8	396.7
75°	2718.7	1665.5	283.4	149.6	154.3	220.4	302.3	418.7	448.7	388.8	341.6
77.5°	1385.3	625.0	201.5	110.2	103.9	168.4	261.3	385.7	442.4	392.0	335.3
80°	489.6	314.8	132.2	72.4	67.7	103.9	199.9	327.4	415.6	382.5	371.5
82.5°	209.4	157.4	72.4	45.7	40.9	51.9	113.3	258.2	365.2	346.3	418.7
85°	29.9	26.8	20.5	17.3	17.3	23.6	36.2	127.5	247.2	281.8	341.6
87.5°	4.7	4.7	4.7	3.1	3.1	3.1	1.6	18.9	81.9	122.8	170.0
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)