

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: P509413

Luminaire Tested: **VERD-CA2-90-740-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509413  
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-CA2-90-740-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12878 lumens  
Efficiency: N/A  
Efficacy: 136.7 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

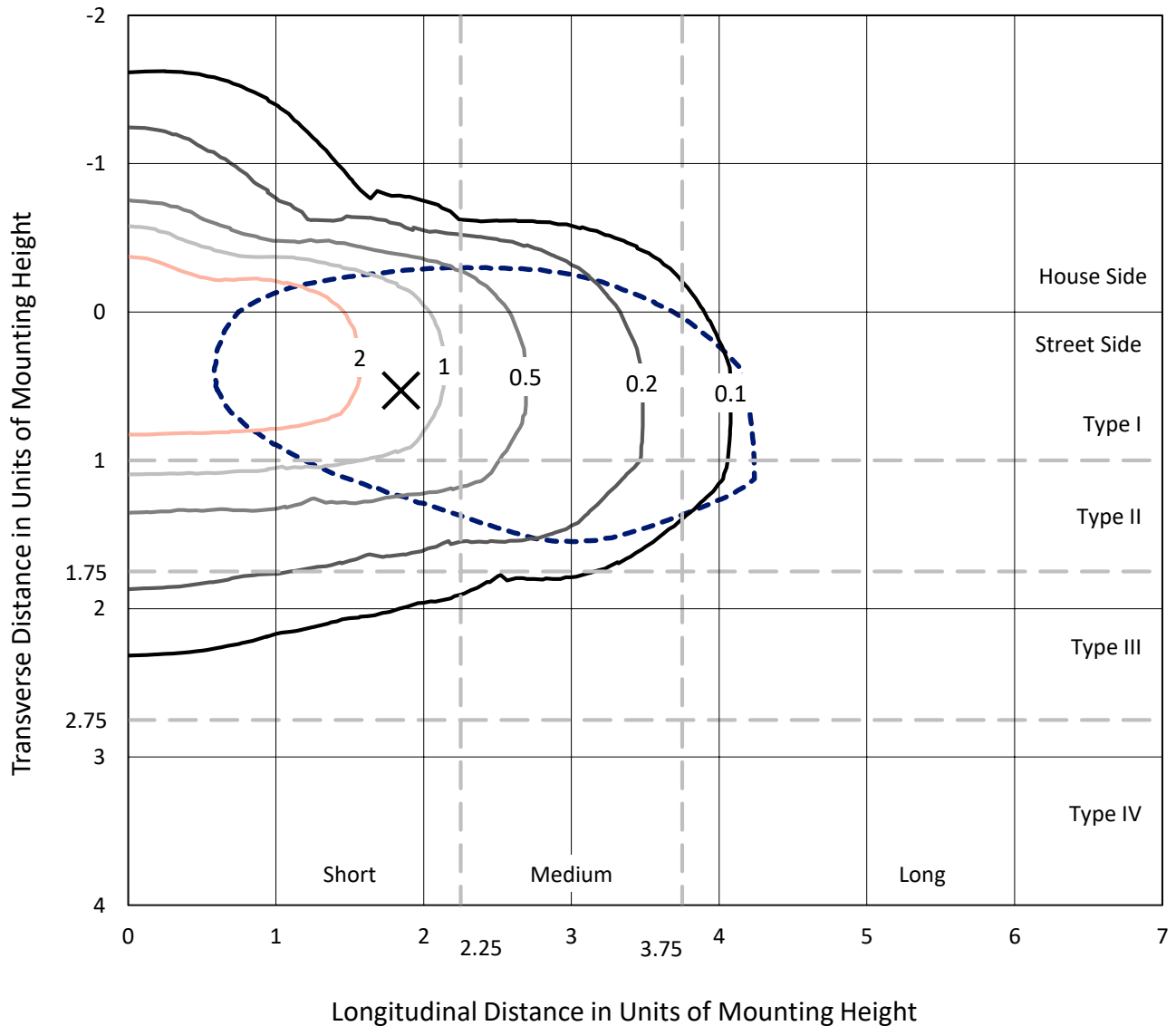
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

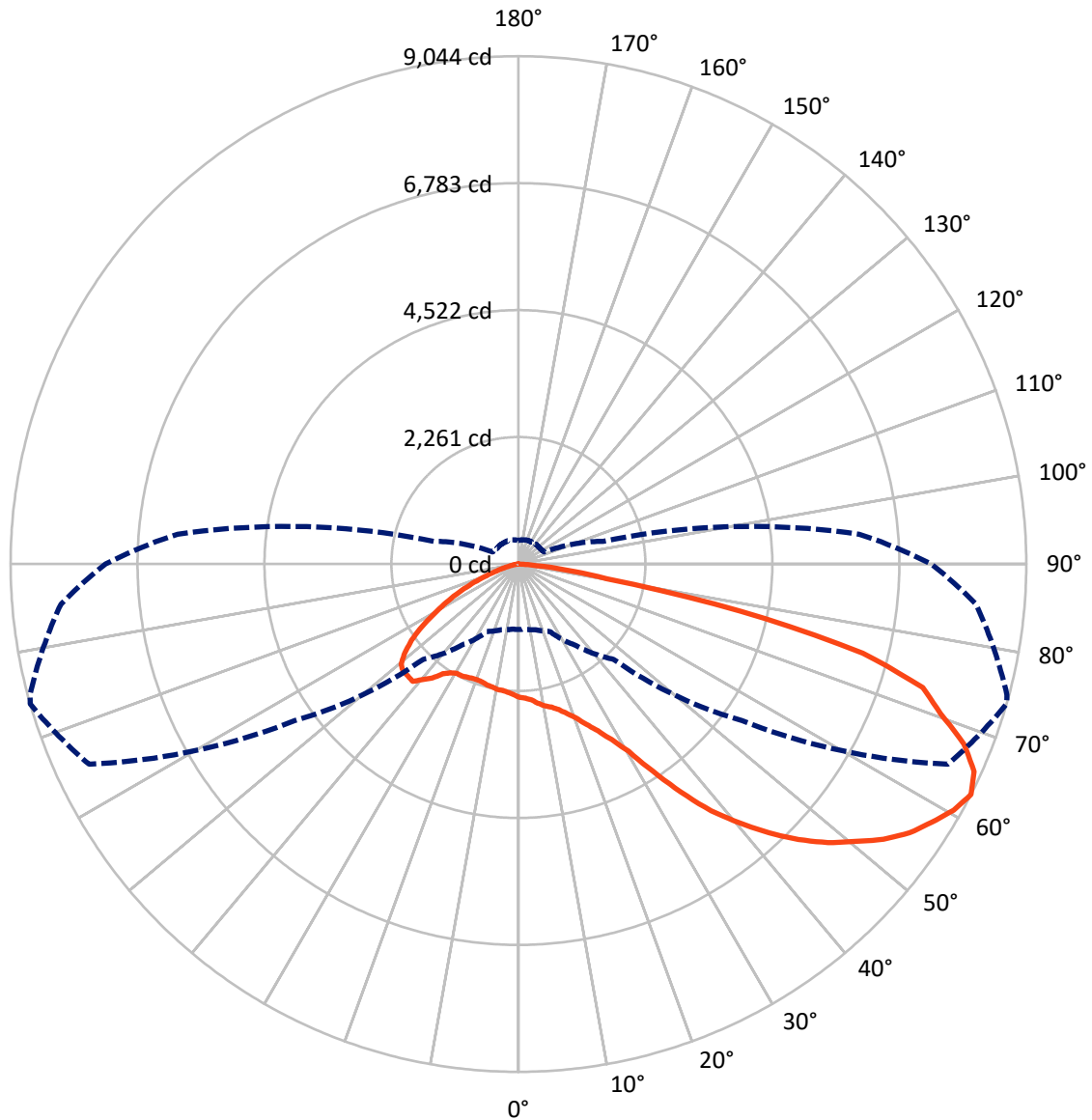
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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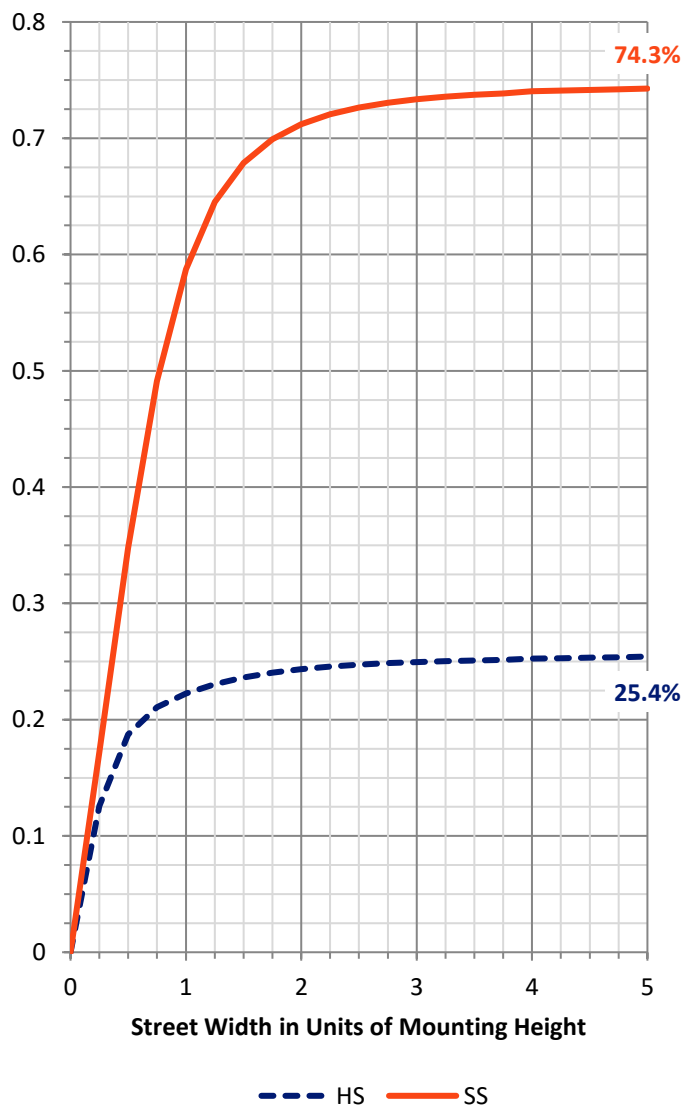
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3325.2	0.0	3325.2
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	9552.8	0.0	9552.8
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	12878.0	0.0	12878.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.2	1.8
10°-20°	695.7	5.4
20°-30°	1173.1	9.1
30°-40°	1713.9	13.3
40°-50°	2282.1	17.7
50°-60°	2626.3	20.4
60°-70°	2537.9	19.7
70°-80°	1461.0	11.3
80°-90°	159.8	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°	12878.0	100.0
0°-180°	12878.0	100.0

**Coefficient of Utilization**



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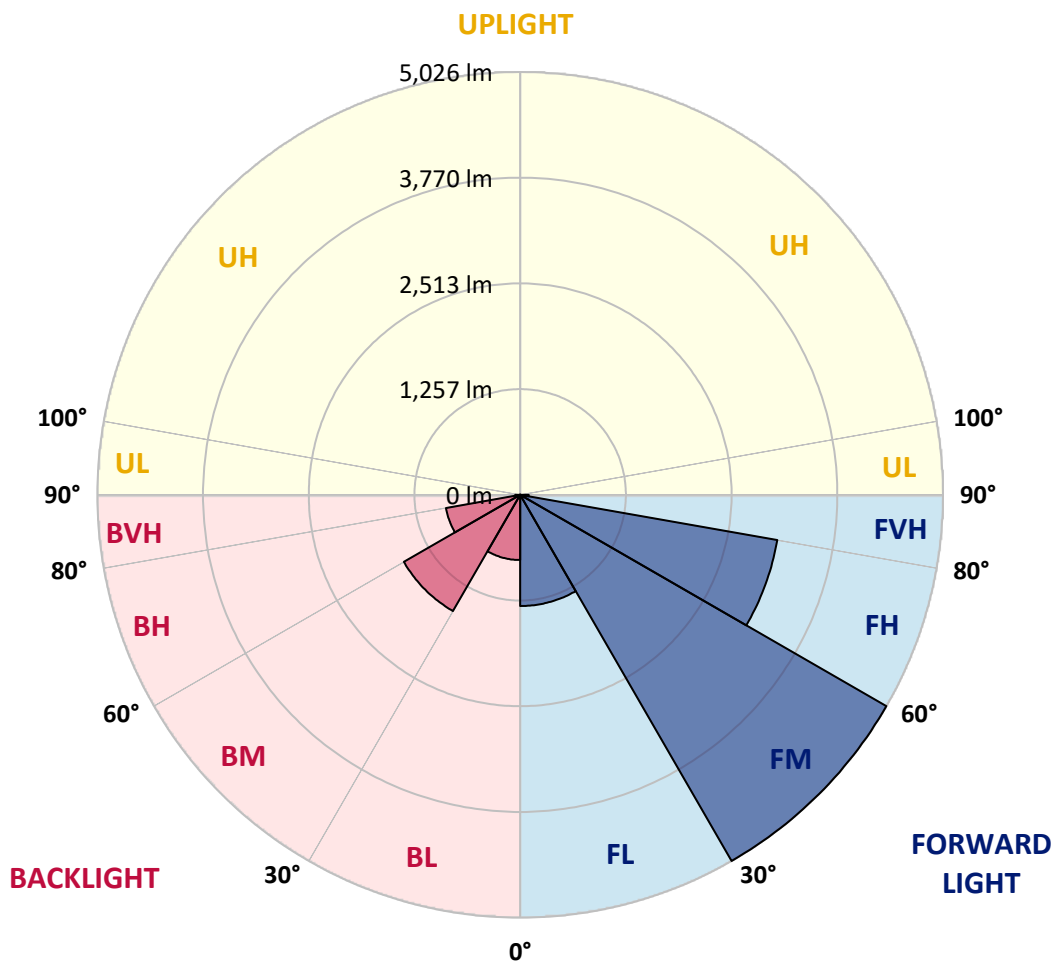
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.7	10.3			
FM (30°-60°)	5026.3	39.0			
FH (60°-80°)	3103.7	24.1			G2/5000
FVH (80°-90°)	101.1	0.8			G2/225
BL (0°-30°)	775.2	6.0	B2/1000		
BM (30°-60°)	1596.0	12.4	B2/2500		
BH (60°-80°)	895.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	58.7	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°	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6
2.5°	2541.7	2523.5	2512.3	2499.6	2484.2	2478.6	2444.8	2415.4	2391.5	2392.9	2377.4
5°	2634.4	2614.8	2589.5	2585.3	2565.6	2561.4	2529.1	2482.8	2430.8	2423.8	2377.4
7.5°	2738.3	2727.1	2711.7	2692.0	2659.7	2638.6	2592.3	2555.8	2502.4	2495.4	2404.1
10°	2864.7	2856.3	2845.1	2845.1	2802.9	2758.0	2701.8	2610.6	2568.4	2561.4	2450.5
12.5°	3013.6	2988.3	2951.8	2930.7	2891.4	2863.3	2802.9	2706.0	2614.8	2612.0	2494.0
15°	3110.5	3089.4	3065.5	3057.1	3006.6	2960.2	2895.6	2818.4	2690.6	2680.8	2547.4
17.5°	3218.6	3198.9	3170.9	3155.4	3123.1	3069.8	3012.2	2911.1	2797.3	2787.5	2607.7
20°	3279.0	3257.9	3249.5	3252.3	3241.1	3214.4	3145.6	3054.3	2923.7	2911.1	2690.6
22.5°	3346.4	3332.4	3335.2	3356.2	3377.3	3367.5	3314.1	3213.0	3100.6	3081.0	2824.0
25°	3347.8	3336.6	3374.5	3455.9	3500.9	3523.3	3495.3	3412.4	3293.0	3274.8	2993.9
27.5°	3371.7	3354.8	3395.5	3481.2	3617.4	3663.8	3673.6	3642.7	3540.2	3517.7	3197.5
30°	3309.9	3298.7	3360.4	3509.3	3669.4	3823.9	3880.0	3927.8	3870.2	3871.6	3512.1
32.5°	3203.2	3183.5	3277.6	3460.1	3757.9	3968.5	4117.3	4309.7	4398.2	4389.8	4059.8
35°	2999.5	3010.8	3137.2	3416.6	3760.7	4115.9	4408.0	4752.1	4992.2	4986.6	4627.1
37.5°	2854.9	2849.3	2998.1	3294.4	3759.3	4246.5	4690.3	5263.2	5573.6	5565.2	5114.4
40°	2680.8	2682.2	2831.0	3142.8	3693.3	4328.0	4982.4	5747.7	6063.7	6051.0	5580.6
42.5°	2494.0	2499.6	2638.6	2957.4	3602.0	4389.8	5243.6	6237.8	6543.9	6555.2	5954.1
45°	2326.9	2329.7	2467.3	2759.4	3440.5	4396.8	5478.1	6701.2	6998.9	6972.2	6345.9
47.5°	2081.1	2083.9	2287.6	2571.2	3227.0	4339.2	5671.9	7142.2	7414.6	7358.4	6677.3
50°	1630.4	1636.0	1877.5	2376.0	2967.2	4207.2	5824.9	7556.4	7767.1	7743.2	7017.2
52.5°	1505.4	1501.2	1602.3	2142.9	2734.1	3968.5	5921.8	7928.6	8142.0	8139.2	7298.0
55°	1442.2	1438.0	1471.7	1737.1	2505.2	3614.6	5919.0	8217.8	8452.4	8394.8	7555.0
57.5°	1329.9	1321.4	1408.5	1539.1	2249.7	3173.7	5778.6	8477.6	8677.0	8660.2	7786.7
60°	1249.8	1242.8	1301.8	1422.5	1977.2	2725.7	5417.7	8612.4	8903.1	8910.1	7981.9
62.5°	1167.0	1162.7	1213.3	1325.6	1763.8	2398.5	4861.6	8435.5	9043.6	9005.6	8177.1
65°	1072.9	1070.1	1117.8	1209.1	1551.7	2150.0	4316.8	8119.5	8917.2	8960.7	8202.4
67.5°	960.5	959.1	1005.5	1068.7	1320.0	1900.0	3482.6	7747.4	8556.3	8508.5	7878.0
70°	822.9	817.3	874.9	933.8	1105.2	1616.3	2710.3	7086.0	7969.3	8142.0	7232.0
72.5°	692.3	689.5	744.3	787.8	915.6	1320.0	1977.2	6128.3	7529.7	7281.2	6515.9
75°	542.1	528.0	585.6	626.3	721.8	1050.4	1348.1	4093.5	6337.5	6285.6	5473.9
77.5°	219.1	254.2	303.3	339.8	403.0	595.4	704.9	1942.1	4042.9	4221.3	3807.0
80°	84.3	89.9	216.3	244.3	271.0	342.6	271.0	818.7	1595.3	1739.9	2204.7
82.5°	47.7	53.4	106.7	102.5	101.1	87.1	101.1	401.6	832.7	912.8	1064.4
85°	26.7	29.5	43.5	47.7	40.7	35.1	30.9	105.3	207.8	196.6	220.5
87.5°	4.2	5.6	7.0	7.0	4.2	4.2	4.2	5.6	5.6	5.6	7.0
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°	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6	2374.6
2.5°	2362.0	2346.6	2331.1	2312.8	2290.4	2276.3	2270.7	2277.7	2297.4	2273.5	2253.9
5°	2353.6	2332.5	2297.4	2262.3	2234.2	2210.3	2178.0	2175.2	2180.8	2171.0	2145.7
7.5°	2371.8	2340.9	2269.3	2245.4	2186.5	2130.3	2112.0	2105.0	2088.2	2068.5	2044.6
10°	2408.3	2345.1	2272.1	2201.9	2147.1	2086.8	2016.5	2017.9	2010.9	1988.5	1966.0
12.5°	2426.6	2352.2	2245.4	2171.0	2086.8	2012.3	1943.5	1912.6	1925.3	1907.0	1883.1
15°	2460.3	2381.7	2235.6	2126.1	2010.9	1926.7	1874.7	1829.8	1801.7	1805.9	1791.9
17.5°	2523.5	2408.3	2210.3	2076.9	1951.9	1852.2	1752.5	1748.3	1706.2	1682.3	1661.3
20°	2589.5	2456.1	2207.5	2023.6	1856.5	1732.9	1652.8	1607.9	1582.6	1563.0	1547.5
22.5°	2675.2	2522.1	2217.4	1992.7	1770.8	1631.8	1529.3	1468.9	1428.2	1414.1	1402.9
25°	2795.9	2604.9	2244.0	1937.9	1680.9	1520.8	1381.8	1318.6	1272.3	1261.0	1252.6
27.5°	2961.6	2710.3	2270.7	1878.9	1575.6	1365.0	1217.5	1155.7	1103.8	1102.4	1086.9
30°	3222.8	2871.8	2280.5	1827.0	1463.3	1197.8	1050.4	992.8	953.5	938.1	949.3
32.5°	3710.1	3228.4	2342.3	1746.9	1321.4	1035.0	910.0	863.6	820.1	803.2	814.5
35°	4236.7	3655.3	2446.3	1692.2	1165.6	880.5	794.8	740.1	686.7	678.3	674.1
37.5°	4622.9	4044.3	2642.9	1602.3	1018.1	786.4	674.1	629.1	598.2	581.4	596.8
40°	5061.0	4367.3	2791.7	1506.8	867.8	686.7	561.7	547.7	533.6	522.4	539.2
42.5°	5407.9	4700.1	2968.6	1380.4	747.1	582.8	499.9	511.2	518.2	512.6	514.0
45°	5726.6	4947.3	2979.9	1188.0	637.5	505.5	481.7	504.1	521.0	518.2	516.8
47.5°	6038.4	5242.2	3006.6	984.4	558.9	485.9	483.1	499.9	522.4	526.6	526.6
50°	6360.0	5466.9	2965.8	792.0	529.4	488.7	487.3	485.9	514.0	515.4	519.6
52.5°	6601.5	5649.4	2773.5	654.4	528.0	497.1	494.3	480.3	492.9	502.7	495.7
55°	6857.1	5876.9	2530.5	602.4	525.2	499.9	511.2	487.3	478.9	470.4	478.9
57.5°	7100.0	6035.6	2211.7	571.5	514.0	495.7	518.2	485.9	467.6	443.8	435.3
60°	7286.8	6072.1	1856.5	539.2	499.9	485.9	487.3	476.1	452.2	422.7	410.0
62.5°	7350.0	6093.2	1561.6	508.3	471.8	470.4	459.2	455.0	445.2	426.9	421.3
65°	7296.6	5854.4	1247.0	470.4	448.0	449.4	432.5	418.5	396.0	366.5	363.7
67.5°	6930.1	5434.6	956.3	422.7	411.5	425.5	407.2	383.4	358.1	338.4	341.2
70°	6302.4	4937.4	671.2	356.7	369.3	394.6	387.6	356.7	328.6	311.7	314.6
72.5°	5604.5	4183.3	456.4	278.0	300.5	353.9	353.9	332.8	304.7	282.3	276.6
75°	4420.7	3286.0	294.9	184.0	198.0	289.3	313.2	280.9	250.0	235.9	230.3
77.5°	3000.9	2140.1	188.2	105.3	132.0	189.6	247.2	251.4	296.3	297.7	285.1
80°	1763.8	1224.5	115.2	61.8	66.0	109.5	198.0	248.6	314.6	221.9	203.6
82.5°	877.7	522.4	52.0	37.9	39.3	54.8	106.7	285.1	242.9	139.0	133.4
85°	195.2	85.7	21.1	19.7	22.5	28.1	54.8	235.9	148.9	112.3	109.5
87.5°	7.0	5.6	5.6	5.6	4.2	4.2	11.2	77.2	59.0	49.1	46.3
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)