

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: P509077

Luminaire Tested: **VERD-CA2-100-740-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509077  
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-CA2-100-740-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13862 lumens  
Efficiency: N/A  
Efficacy: 134.1 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

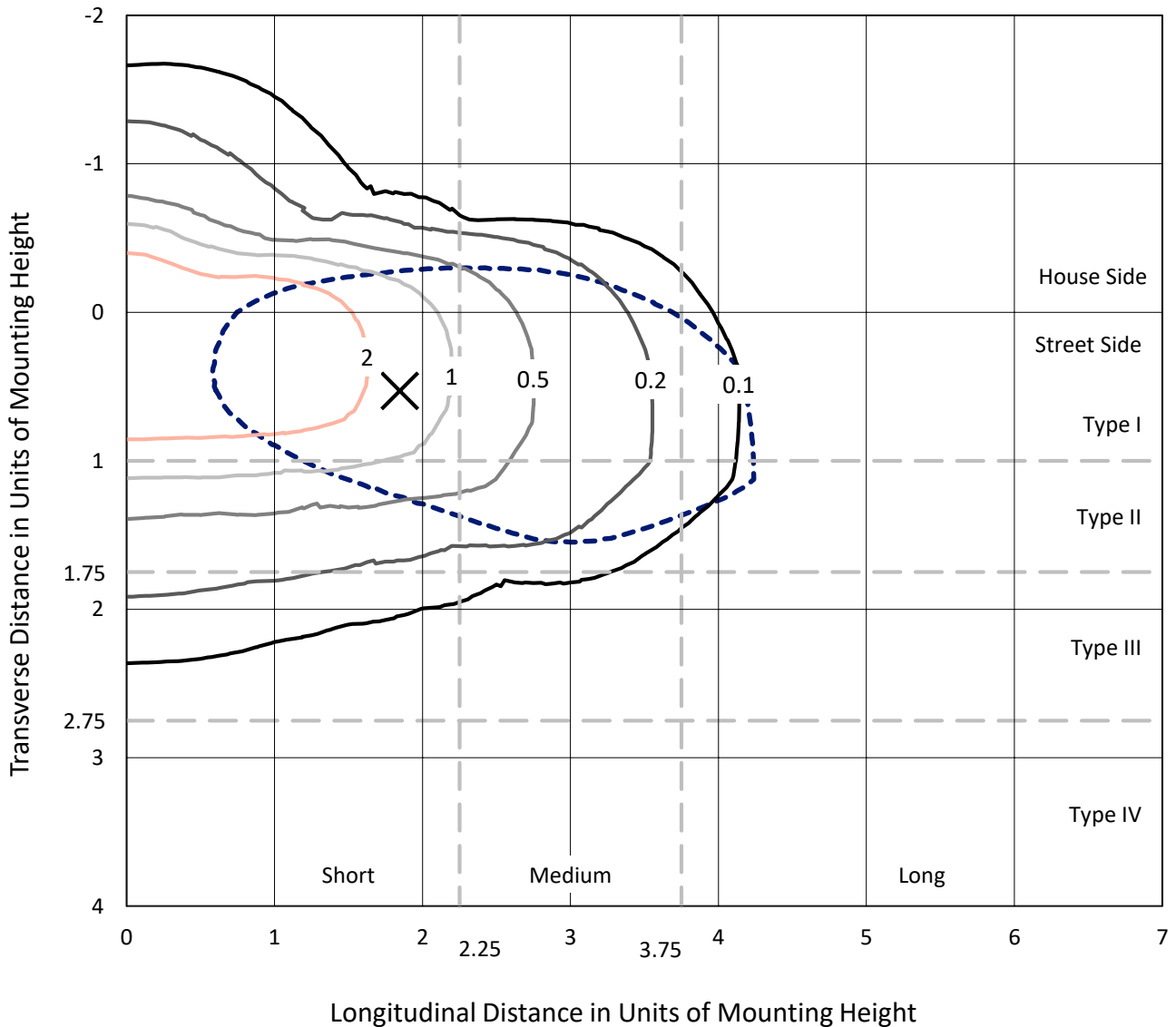


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### Iso-Footcandle Lines of Horizontal Illumination

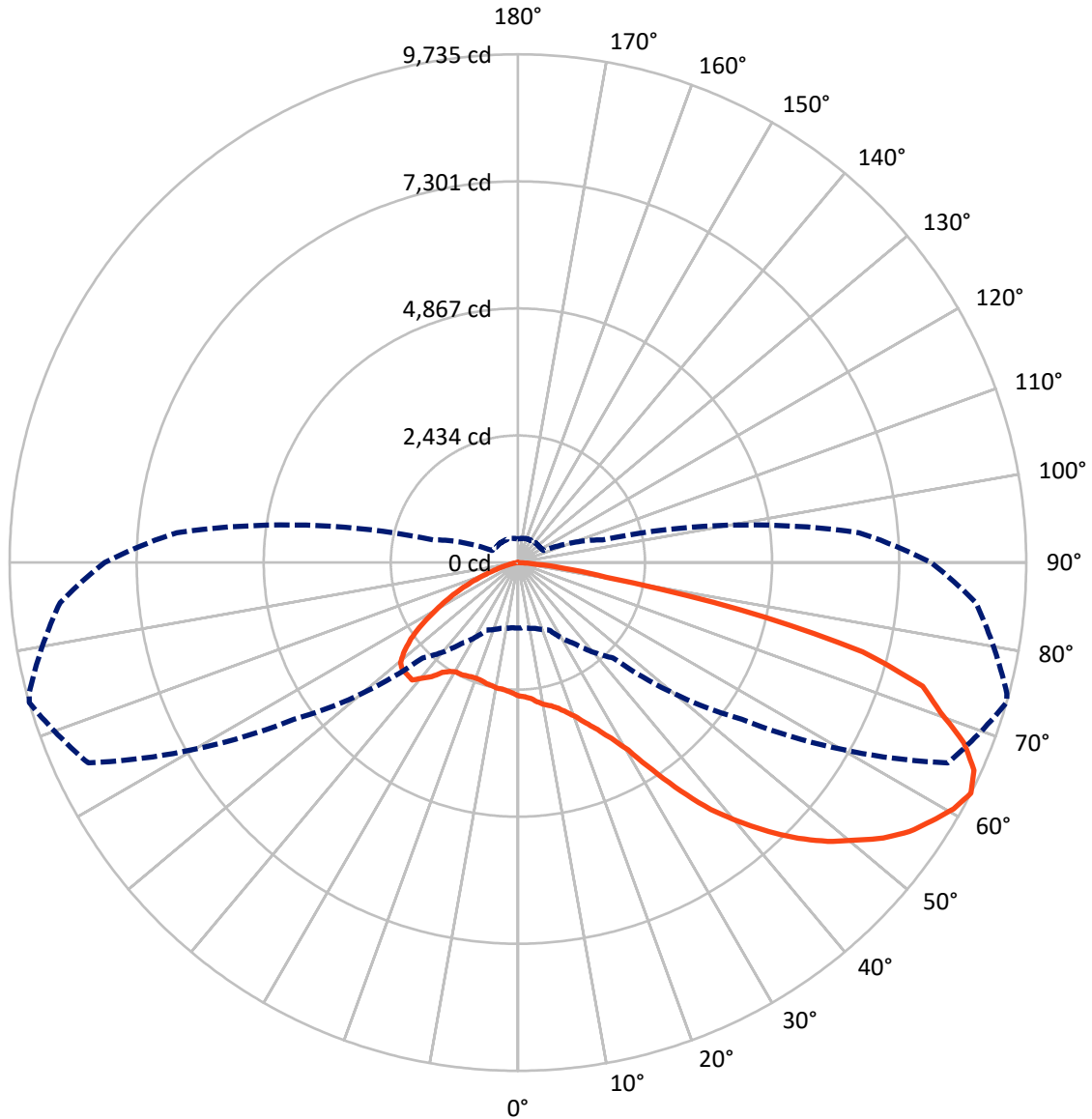
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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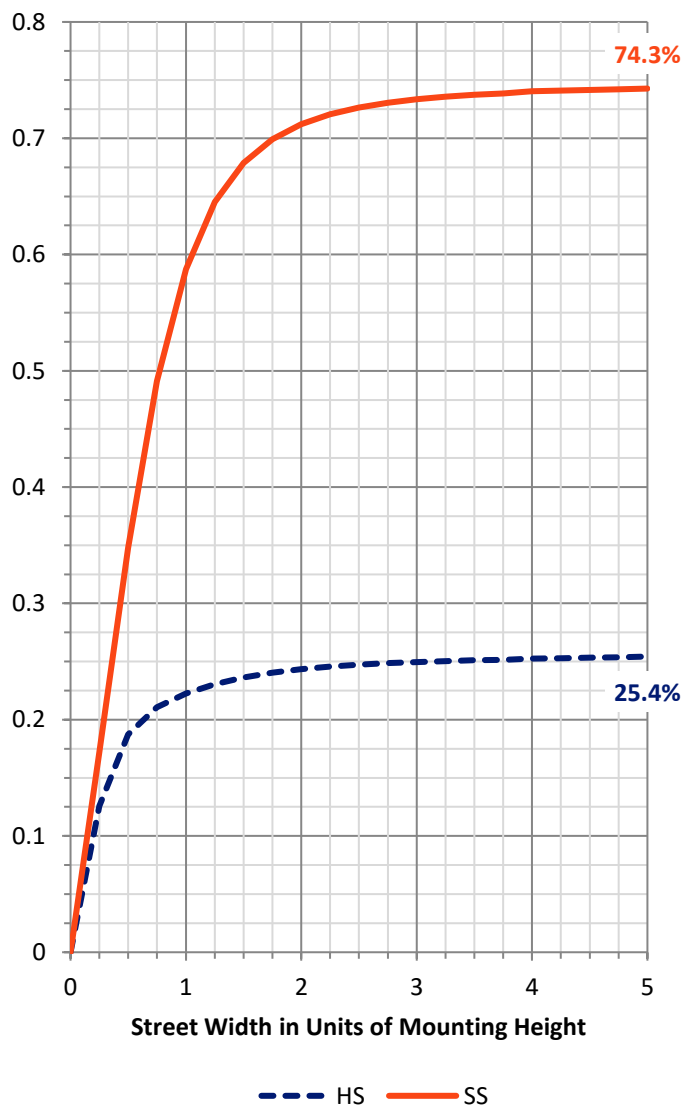
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3579.3	0.0	3579.3
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	10282.7	0.0	10282.7
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	13862.0	0.0	13862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.6	1.8
10°-20°	748.8	5.4
20°-30°	1262.7	9.1
30°-40°	1844.9	13.3
40°-50°	2456.5	17.7
50°-60°	2827.0	20.4
60°-70°	2731.8	19.7
70°-80°	1572.6	11.3
80°-90°	172.0	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°	13862.0	100.0
0°-180°	13862.0	100.0

**Coefficient of Utilization**



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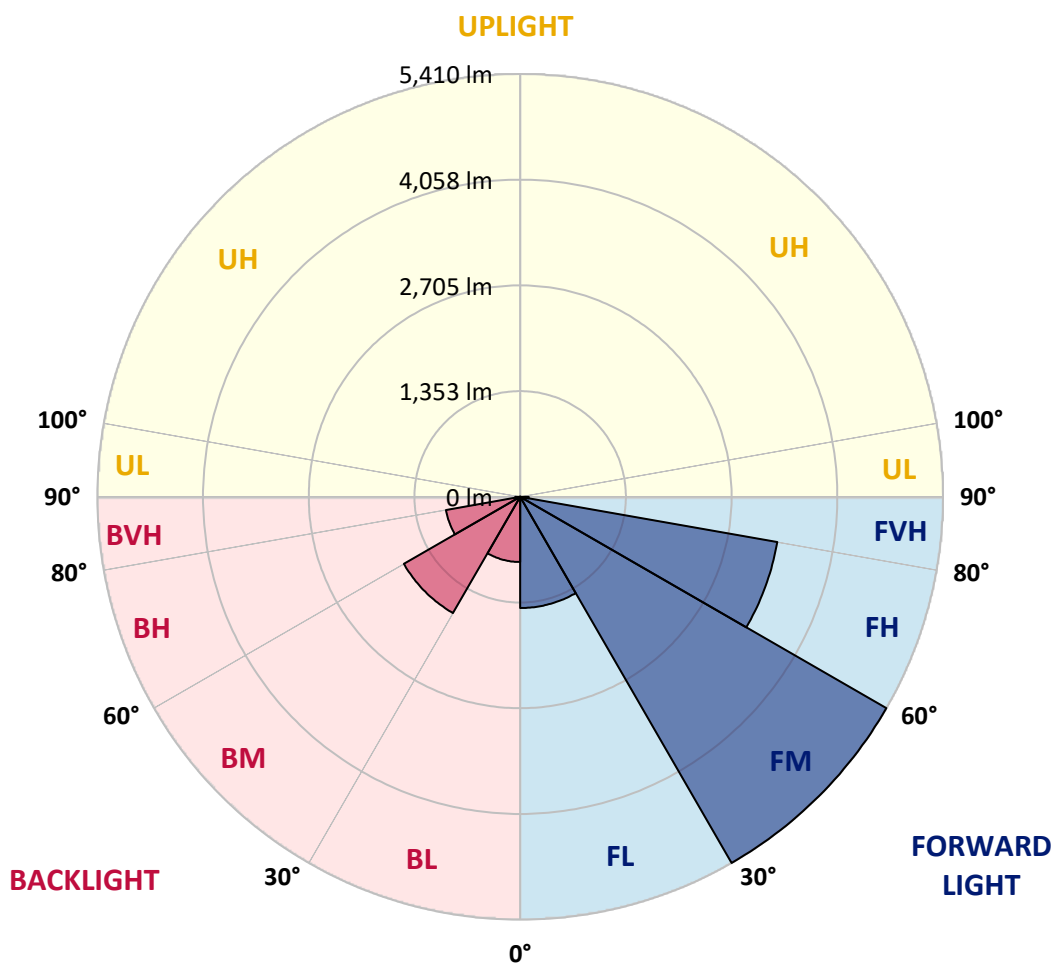
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.7	10.3			
FM (30°-60°)	5410.4	39.0			
FH (60°-80°)	3340.8	24.1			G2/5000
FVH (80°-90°)	108.8	0.8			G2/225
BL (0°-30°)	834.5	6.0	B2/1000		
BM (30°-60°)	1718.0	12.4	B2/2500		
BH (60°-80°)	963.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	63.2	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°	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1
2.5°	2736.0	2716.3	2704.2	2690.6	2674.0	2667.9	2631.7	2599.9	2574.2	2575.7	2559.1
5°	2835.7	2814.6	2787.4	2782.8	2761.7	2757.1	2722.4	2672.5	2616.5	2609.0	2559.1
7.5°	2947.6	2935.5	2918.9	2897.7	2862.9	2840.3	2790.4	2751.1	2693.6	2686.1	2587.8
10°	3083.6	3074.6	3062.5	3062.5	3017.1	2968.7	2908.3	2810.0	2764.7	2757.1	2637.7
12.5°	3243.8	3216.6	3177.3	3154.7	3112.3	3082.1	3017.1	2912.8	2814.6	2811.5	2684.6
15°	3348.1	3325.5	3299.8	3290.7	3236.3	3186.4	3116.9	3033.7	2896.2	2885.6	2742.0
17.5°	3464.5	3443.4	3413.1	3396.5	3361.8	3304.3	3242.3	3133.5	3011.1	3000.5	2807.0
20°	3529.5	3506.9	3497.8	3500.8	3488.7	3460.0	3385.9	3287.7	3147.1	3133.5	2896.2
22.5°	3602.1	3587.0	3590.0	3612.7	3635.3	3624.8	3567.3	3458.5	3337.6	3316.4	3039.8
25°	3603.6	3591.5	3632.3	3720.0	3768.4	3792.6	3762.3	3673.1	3544.7	3525.0	3222.7
27.5°	3629.3	3611.2	3655.0	3747.2	3893.8	3943.7	3954.3	3921.0	3810.7	3786.5	3441.9
30°	3562.8	3550.7	3617.2	3777.4	3949.8	4116.0	4176.5	4227.9	4165.9	4167.4	3780.5
32.5°	3447.9	3426.7	3528.0	3724.5	4045.0	4271.7	4431.9	4639.0	4734.3	4725.2	4370.0
35°	3228.7	3240.8	3376.9	3677.7	4048.0	4430.4	4744.8	5115.2	5373.7	5367.6	4980.7
37.5°	3073.0	3067.0	3227.2	3546.2	4046.5	4571.0	5048.7	5665.4	5999.5	5990.4	5505.2
40°	2885.6	2887.1	3047.3	3382.9	3975.5	4658.7	5363.1	6186.9	6527.0	6513.4	6007.0
42.5°	2684.6	2690.6	2840.3	3183.4	3877.2	4725.2	5644.2	6714.4	7044.0	7056.1	6409.1
45°	2504.7	2507.7	2655.8	2970.3	3703.4	4732.8	5896.7	7213.3	7533.7	7505.0	6830.8
47.5°	2240.2	2243.2	2462.4	2767.7	3473.6	4670.8	6105.3	7687.9	7981.1	7920.7	7187.6
50°	1754.9	1761.0	2021.0	2557.6	3194.0	4528.7	6270.0	8133.8	8360.5	8334.8	7553.4
52.5°	1620.4	1615.9	1724.7	2306.7	2943.0	4271.7	6374.3	8534.4	8764.1	8761.1	7855.7
55°	1552.4	1547.9	1584.1	1869.8	2696.7	3890.8	6371.3	8845.8	9098.2	9036.2	8132.3
57.5°	1431.5	1422.4	1516.1	1656.7	2421.5	3416.2	6220.1	9125.4	9340.0	9321.9	8381.7
60°	1345.3	1337.7	1401.2	1531.2	2128.3	2934.0	5831.7	9270.5	9583.4	9591.0	8591.8
62.5°	1256.1	1251.6	1306.0	1426.9	1898.5	2581.8	5233.1	9080.1	9734.6	9693.8	8801.9
65°	1154.8	1151.8	1203.2	1301.5	1670.3	2314.2	4646.6	8739.9	9598.5	9645.4	8829.1
67.5°	1033.9	1032.4	1082.3	1150.3	1420.9	2045.2	3748.7	8339.4	9210.1	9158.7	8480.0
70°	885.8	879.7	941.7	1005.2	1189.6	1739.8	2917.3	7627.4	8578.2	8764.1	7784.6
72.5°	745.2	742.2	801.1	848.0	985.5	1420.9	2128.3	6596.5	8105.1	7837.5	7013.7
75°	583.5	568.4	630.3	674.2	777.0	1130.7	1451.1	4406.3	6821.8	6765.8	5892.1
77.5°	235.8	273.6	326.5	365.8	433.8	640.9	758.8	2090.5	4351.8	4543.8	4097.9
80°	90.7	96.7	232.8	263.0	291.7	368.8	291.7	881.3	1717.2	1872.8	2373.2
82.5°	51.4	57.4	114.9	110.3	108.8	93.7	108.8	432.3	896.4	982.5	1145.8
85°	28.7	31.7	46.9	51.4	43.8	37.8	33.3	113.4	223.7	211.6	237.3
87.5°	4.5	6.0	7.6	7.6	4.5	4.5	4.5	6.0	6.0	6.0	7.6
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°	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1
2.5°	2542.5	2525.8	2509.2	2489.6	2465.4	2450.3	2444.2	2451.8	2472.9	2447.2	2426.1
5°	2533.4	2510.7	2472.9	2435.2	2404.9	2379.2	2344.5	2341.4	2347.5	2336.9	2309.7
7.5°	2553.1	2519.8	2442.7	2417.0	2353.5	2293.1	2273.4	2265.9	2247.7	2226.6	2200.9
10°	2592.4	2524.3	2445.7	2370.2	2311.2	2246.2	2170.6	2172.1	2164.6	2140.4	2116.2
12.5°	2612.0	2531.9	2417.0	2336.9	2246.2	2166.1	2092.0	2058.8	2072.4	2052.7	2027.0
15°	2648.3	2563.6	2406.4	2288.5	2164.6	2073.9	2018.0	1969.6	1939.4	1943.9	1928.8
17.5°	2716.3	2592.4	2379.2	2235.6	2101.1	1993.8	1886.5	1881.9	1836.6	1810.9	1788.2
20°	2787.4	2643.8	2376.2	2178.2	1998.3	1865.3	1779.1	1730.8	1703.5	1682.4	1665.8
22.5°	2879.6	2714.8	2386.8	2144.9	1906.1	1756.5	1646.1	1581.1	1537.3	1522.2	1510.1
25°	3009.6	2804.0	2415.5	2086.0	1809.4	1637.0	1487.4	1419.4	1369.5	1357.4	1348.3
27.5°	3187.9	2917.3	2444.2	2022.5	1696.0	1469.3	1310.5	1244.0	1188.1	1186.6	1170.0
30°	3469.1	3091.2	2454.8	1966.6	1575.1	1289.4	1130.7	1068.7	1026.4	1009.7	1021.8
32.5°	3993.6	3475.1	2521.3	1880.4	1422.4	1114.0	979.5	929.6	882.8	864.6	876.7
35°	4560.4	3934.6	2633.2	1821.5	1254.6	947.8	855.6	796.6	739.2	730.1	725.6
37.5°	4976.1	4353.3	2844.8	1724.7	1095.9	846.5	725.6	677.2	643.9	625.8	642.4
40°	5447.7	4701.0	3005.0	1621.9	934.2	739.2	604.6	589.5	574.4	562.3	580.4
42.5°	5821.1	5059.3	3195.5	1485.9	804.2	627.3	538.1	550.2	557.8	551.7	553.2
45°	6164.2	5325.3	3207.6	1278.8	686.3	544.2	518.5	542.7	560.8	557.8	556.3
47.5°	6499.8	5642.7	3236.3	1059.6	601.6	523.0	520.0	538.1	562.3	566.8	566.8
50°	6845.9	5884.6	3192.5	852.5	569.9	526.0	524.5	523.0	553.2	554.7	559.3
52.5°	7105.9	6081.1	2985.4	704.4	568.4	535.1	532.1	517.0	530.6	541.1	533.6
55°	7381.0	6326.0	2723.9	648.5	565.3	538.1	550.2	524.5	515.4	506.4	515.4
57.5°	7642.5	6496.8	2380.7	615.2	553.2	533.6	557.8	523.0	503.4	477.7	468.6
60°	7843.6	6536.1	1998.3	580.4	538.1	523.0	524.5	512.4	486.7	455.0	441.4
62.5°	7911.6	6558.7	1680.9	547.2	507.9	506.4	494.3	489.8	479.2	459.5	453.5
65°	7854.2	6301.8	1342.3	506.4	482.2	483.7	465.6	450.5	426.3	394.5	391.5
67.5°	7459.6	5849.8	1029.4	455.0	442.9	458.0	438.4	412.7	385.5	364.3	367.3
70°	6784.0	5314.7	722.5	383.9	397.5	424.8	417.2	383.9	353.7	335.6	338.6
72.5°	6032.7	4503.0	491.3	299.3	323.5	380.9	380.9	358.2	328.0	303.8	297.8
75°	4758.5	3537.1	317.4	198.0	213.1	311.4	337.1	302.3	269.1	253.9	247.9
77.5°	3230.2	2303.6	202.6	113.4	142.1	204.1	266.0	270.6	318.9	320.5	306.9
80°	1898.5	1318.1	123.9	66.5	71.0	117.9	213.1	267.5	338.6	238.8	219.2
82.5°	944.7	562.3	55.9	40.8	42.3	59.0	114.9	306.9	261.5	149.6	143.6
85°	210.1	92.2	22.7	21.2	24.2	30.2	59.0	253.9	160.2	120.9	117.9
87.5°	7.6	6.0	6.0	6.0	4.5	4.5	12.1	83.1	63.5	52.9	49.9
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)