

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: P509517

Luminaire Tested: **VERD-G-CA2-110-750-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-110-750-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16882 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

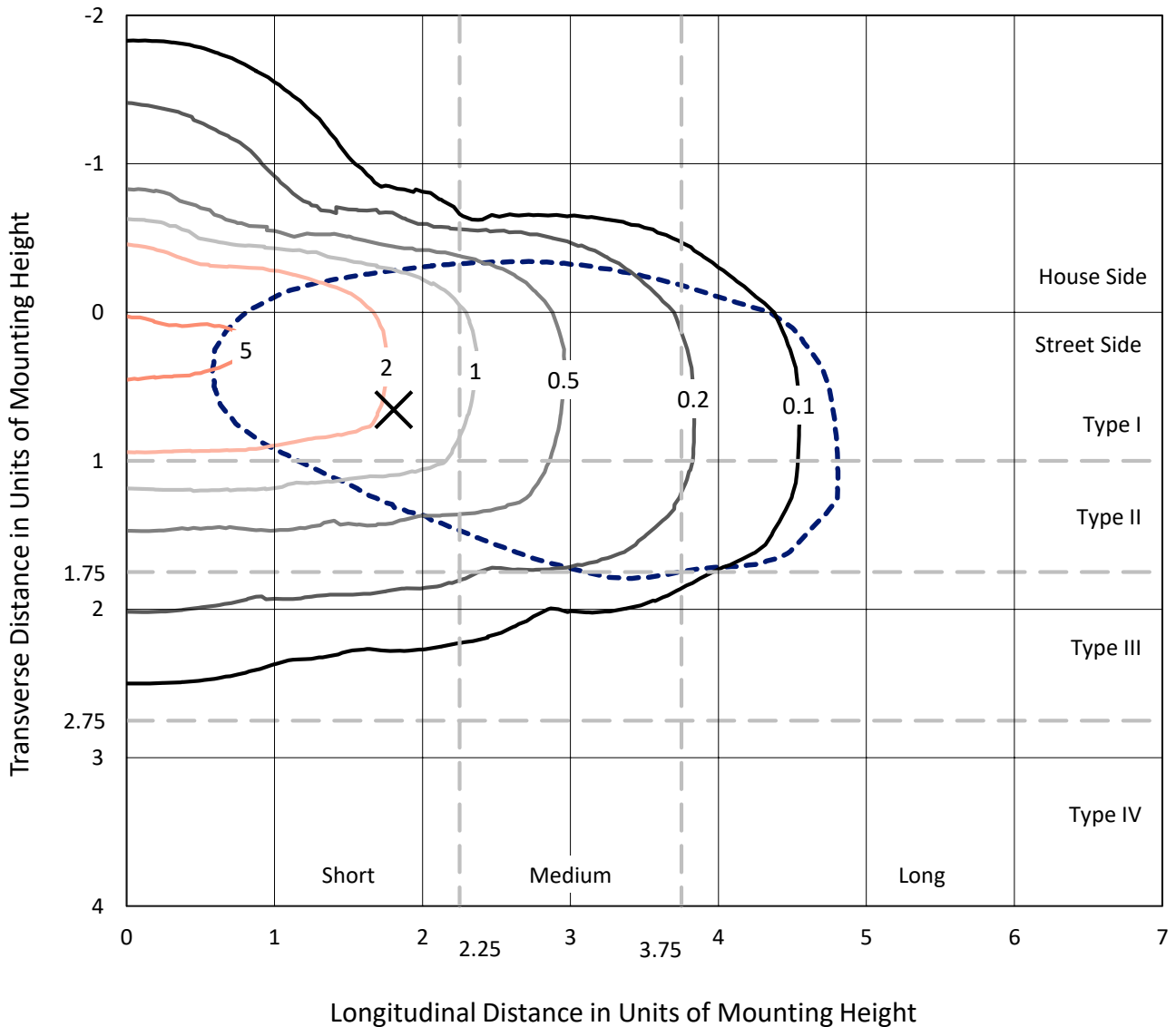
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

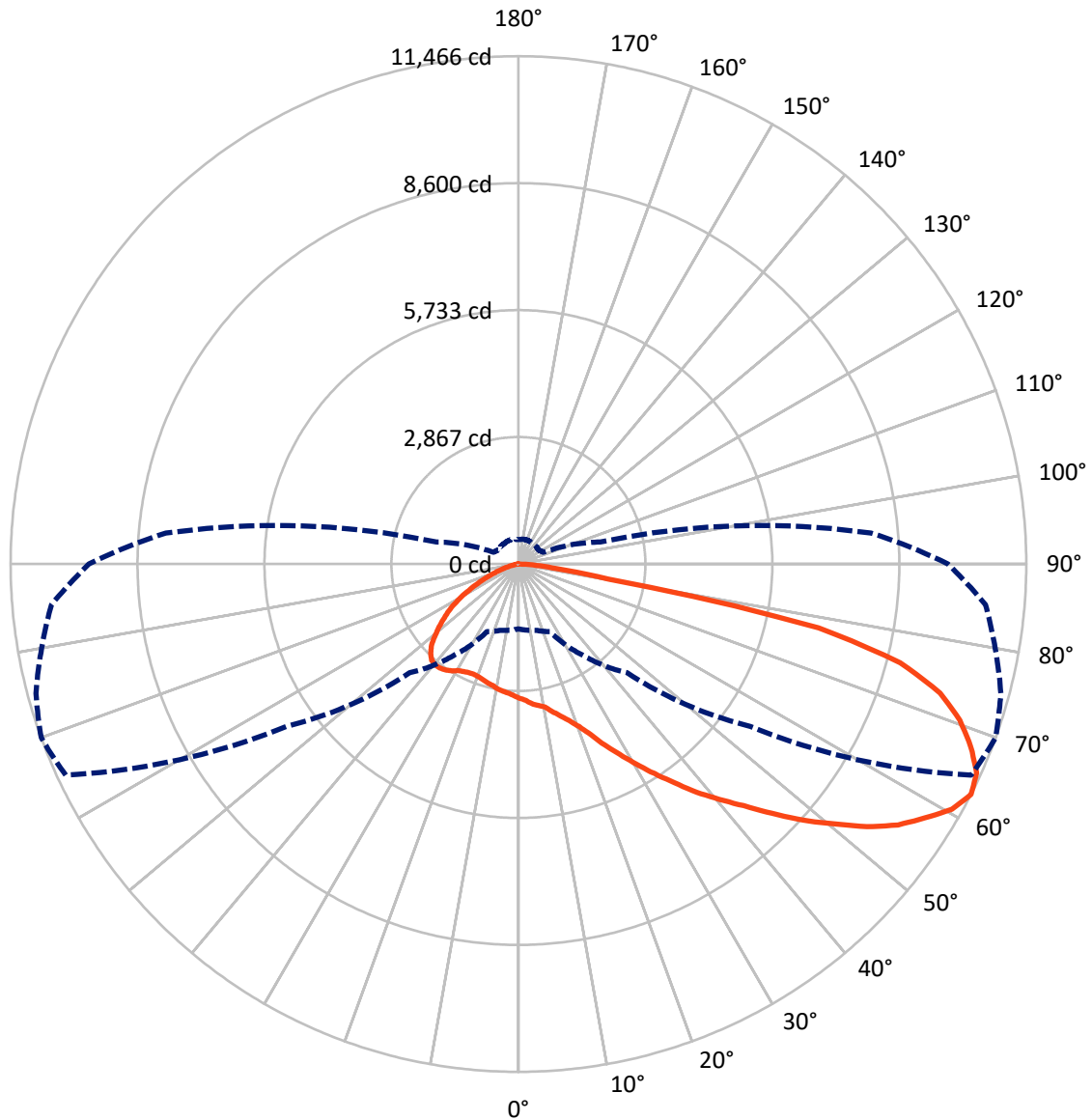
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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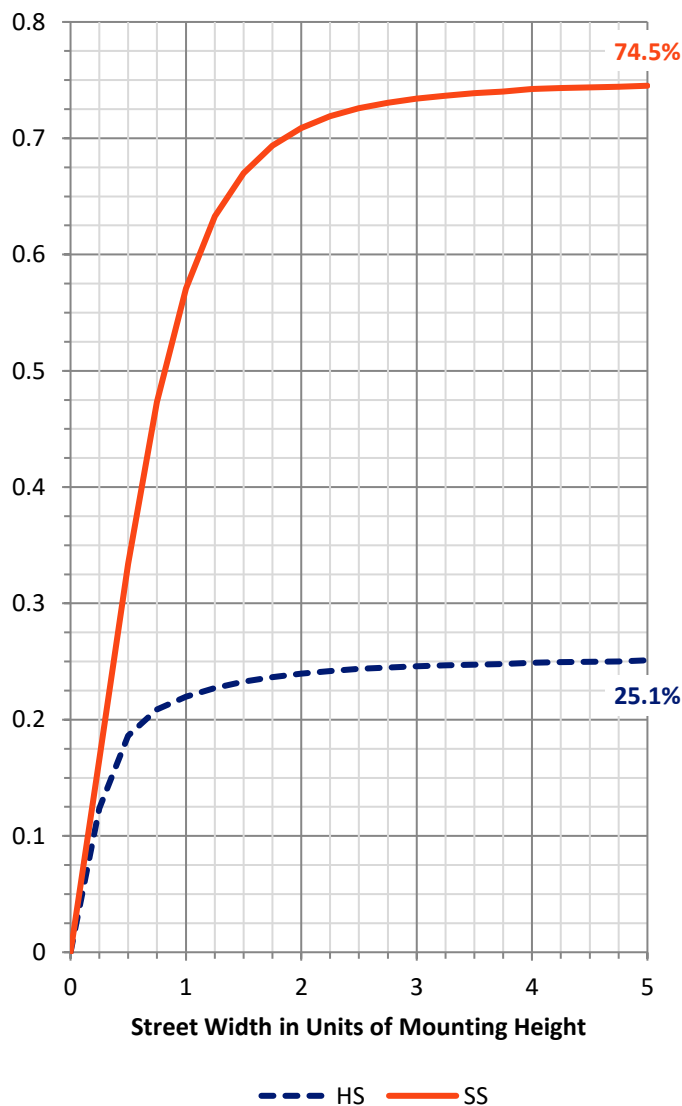
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4313.9	0.0	4313.9
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	12568.1	0.0	12568.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	16882.0	0.0	16882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.6	1.7
10°-20°	890.0	5.3
20°-30°	1512.8	9.0
30°-40°	2177.0	12.9
40°-50°	2825.0	16.7
50°-60°	3311.7	19.6
60°-70°	3396.1	20.1
70°-80°	2228.5	13.2
80°-90°	248.3	1.5
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°	16882.0	100.0
0°-180°	16882.0	100.0

**Coefficient of Utilization**



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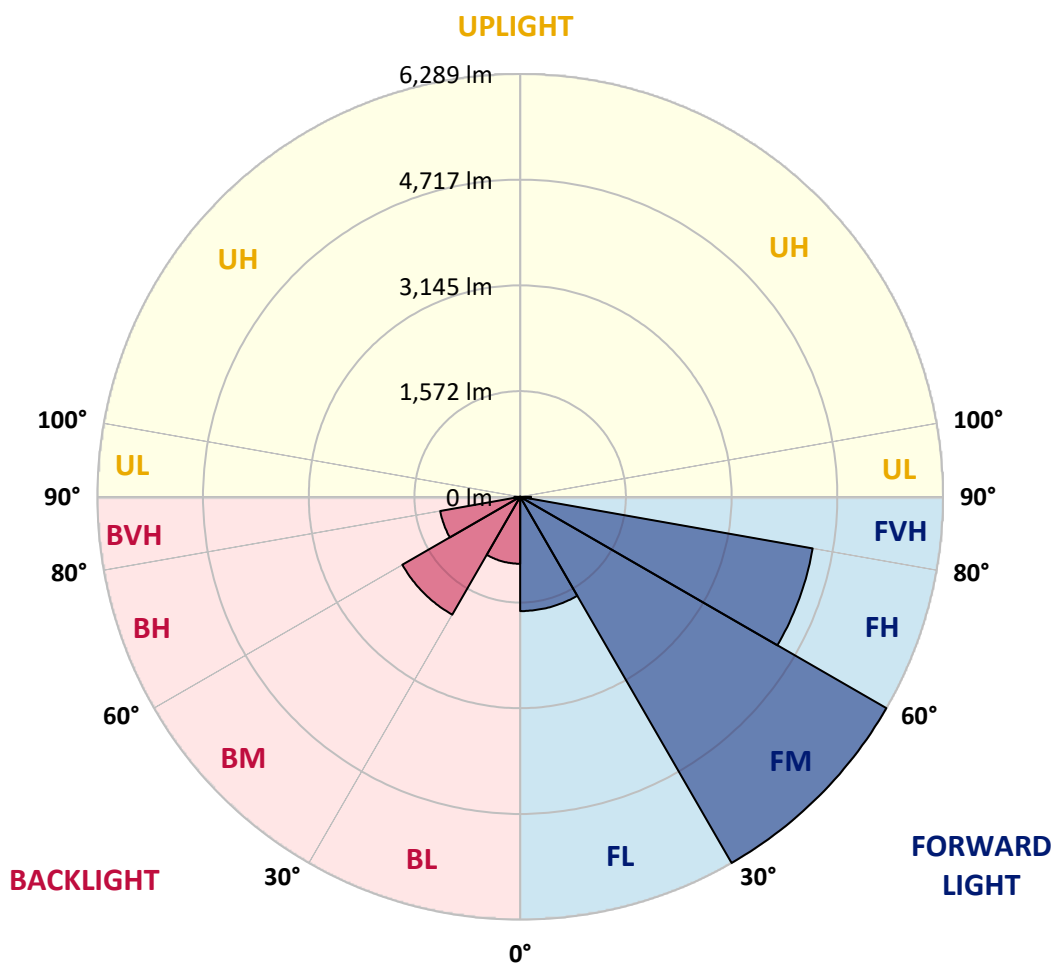
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.3	10.1			
FM (30°-60°)	6289.0	37.3			
FH (60°-80°)	4417.9	26.2			G2/5000
FVH (80°-90°)	161.9	1.0			G2/225
BL (0°-30°)	996.2	5.9	B2/1000		
BM (30°-60°)	2024.7	12.0	B2/2500		
BH (60°-80°)	1206.7	7.1	B3/2500		G3/2500
BVH (80°-90°)	86.4	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°	70°	75°	85°
0°	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9
2.5°	3224.7	3236.9	3217.0	3198.2	3179.3	3168.3	3149.4	3096.3	3077.5	3060.9	3027.7
5°	3391.9	3408.5	3379.7	3319.9	3305.5	3259.0	3233.6	3188.2	3169.4	3140.6	3085.2
7.5°	3587.8	3590.0	3549.1	3530.3	3482.7	3419.6	3338.7	3255.7	3228.0	3198.2	3128.4
10°	3701.8	3725.1	3685.2	3626.6	3593.4	3536.9	3451.7	3342.1	3281.2	3228.0	3150.6
12.5°	3862.4	3867.9	3803.7	3770.5	3726.2	3655.3	3572.3	3477.1	3417.3	3318.8	3178.2
15°	3979.7	3983.0	3925.5	3890.0	3848.0	3805.9	3716.2	3616.6	3557.9	3459.4	3245.8
17.5°	4063.8	4078.2	4042.8	4017.3	3973.1	3943.2	3872.3	3793.7	3717.3	3628.8	3386.3
20°	4155.7	4163.5	4098.2	4109.2	4101.5	4088.2	4055.0	3980.8	3918.8	3801.5	3499.3
22.5°	4181.2	4167.9	4185.6	4228.8	4249.8	4265.3	4255.3	4238.7	4182.3	4036.2	3712.9
25°	4143.5	4160.1	4202.2	4296.3	4413.7	4483.4	4533.2	4545.4	4528.8	4389.3	3998.5
27.5°	4133.6	4125.8	4194.5	4355.0	4552.0	4714.8	4813.3	4906.3	4864.2	4776.8	4320.7
30°	4091.5	4088.2	4208.9	4373.8	4627.3	4929.5	5105.5	5262.7	5242.8	5154.2	4698.2
32.5°	3988.6	4010.7	4103.7	4389.3	4742.4	5137.6	5352.4	5610.3	5640.2	5574.9	5080.1
35°	3855.7	3863.5	4011.8	4348.3	4832.1	5320.3	5632.5	5991.1	6060.9	6058.7	5509.6
37.5°	3687.5	3731.7	3890.0	4246.5	4870.8	5487.5	5901.5	6396.3	6535.8	6514.8	5939.1
40°	3519.2	3546.9	3733.9	4117.0	4874.2	5599.3	6129.5	6829.1	6984.1	6987.5	6428.4
42.5°	3266.8	3313.3	3509.2	3946.5	4800.0	5694.5	6356.5	7283.0	7459.0	7484.5	6882.3
45°	3056.5	3072.0	3245.8	3681.9	4639.5	5745.4	6608.9	7748.0	8032.5	8011.4	7276.4
47.5°	2784.1	2845.0	3028.8	3431.7	4388.2	5754.2	6828.0	8288.2	8640.2	8591.5	7813.3
50°	2154.2	2221.8	2722.1	3205.9	4070.5	5653.5	7004.1	8930.3	9217.0	9164.9	8270.5
52.5°	1899.6	1932.8	2135.4	2942.4	3740.6	5413.3	7144.6	9539.1	9852.4	9691.9	8805.2
55°	1791.1	1806.6	1898.5	2406.6	3449.4	5019.2	7225.5	10222.1	10398.2	10160.1	9303.3
57.5°	1673.8	1710.3	1756.8	2028.0	3125.1	4473.4	7175.6	10788.9	10817.7	10580.8	9728.4
60°	1563.1	1578.6	1674.9	1817.7	2752.0	3910.0	6894.5	11142.1	11243.9	10952.8	10239.8
62.5°	1464.6	1492.3	1548.7	1682.7	2503.0	3471.6	6394.1	11278.2	11466.4	11277.1	10585.2
65°	1371.6	1380.4	1444.6	1566.4	2227.3	3255.7	6105.2	11063.5	11369.0	11339.1	10736.9
67.5°	1262.0	1272.0	1328.4	1412.5	1883.0	3015.5	5352.4	10760.1	11017.0	11118.8	10650.5
70°	1119.2	1126.9	1193.4	1243.2	1578.6	2661.3	4494.5	10295.2	10573.1	10479.0	10070.5
72.5°	955.4	967.5	1020.7	1082.7	1312.9	2243.9	3520.3	9322.1	9958.7	9896.7	9209.2
75°	771.6	790.4	833.6	907.7	1067.2	1782.3	2491.9	7543.2	8902.6	8995.6	7947.2
77.5°	365.3	384.1	422.9	484.9	646.5	1243.2	1363.8	4252.0	6933.2	7508.9	6398.5
80°	119.6	121.8	286.7	327.7	410.7	766.1	556.8	1387.1	2053.5	3472.7	3441.7
82.5°	64.2	69.7	155.0	190.4	205.9	205.9	162.7	612.2	864.6	1057.2	1224.4
85°	34.3	35.4	54.2	65.3	70.8	56.5	42.1	252.4	405.2	505.9	501.5
87.5°	14.4	15.5	16.6	14.4	12.2	7.7	5.5	4.4	4.4	4.4	4.4
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°	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9	3029.9
2.5°	3011.1	2995.6	2987.8	2955.7	2920.3	2882.7	2852.8	2853.9	2877.1	2894.8	2893.7
5°	3045.4	3006.6	2959.0	2883.8	2852.8	2825.1	2791.9	2747.6	2762.0	2779.7	2793.0
7.5°	3064.2	3014.4	2950.2	2838.4	2787.5	2727.7	2696.7	2639.1	2614.8	2632.5	2632.5
10°	3057.6	3006.6	2895.9	2814.0	2714.4	2620.3	2558.3	2543.9	2522.9	2519.6	2518.4
12.5°	3101.8	3026.6	2862.7	2742.1	2651.3	2530.6	2464.2	2450.9	2455.3	2427.7	2432.1
15°	3145.0	3059.8	2833.9	2708.9	2568.3	2426.6	2373.4	2324.7	2346.9	2323.6	2329.2
17.5°	3222.5	3119.6	2818.4	2642.4	2462.0	2339.1	2243.9	2188.6	2186.3	2183.0	2174.2
20°	3311.1	3168.3	2816.2	2584.9	2375.6	2229.5	2093.4	2032.5	1988.2	2003.7	2004.8
22.5°	3471.6	3260.1	2839.5	2531.7	2255.0	2091.1	1951.7	1858.7	1805.5	1814.4	1815.5
25°	3699.6	3452.8	2900.4	2486.3	2154.2	1930.6	1793.4	1676.0	1611.8	1612.9	1630.6
27.5°	4030.6	3683.0	2997.8	2447.6	2046.9	1779.0	1593.0	1477.9	1408.1	1407.0	1419.2
30°	4358.3	3970.8	3137.3	2392.2	1910.7	1575.3	1364.9	1273.1	1229.9	1201.1	1207.7
32.5°	4682.7	4279.7	3318.8	2363.5	1751.3	1335.1	1159.0	1095.9	1041.7	988.6	994.1
35°	5050.2	4569.7	3501.5	2305.9	1559.8	1135.8	1012.9	926.6	856.8	829.2	823.6
37.5°	5481.9	4907.4	3627.7	2257.2	1332.8	1001.8	852.4	788.2	742.8	712.9	708.5
40°	5862.7	5190.8	3767.2	2143.2	1114.8	881.2	711.8	677.5	672.0	648.7	645.4
42.5°	6248.0	5538.4	3862.4	1993.7	965.3	727.3	608.9	628.8	659.8	645.4	645.4
45°	6641.0	5901.5	3881.2	1770.1	822.5	615.5	583.4	621.0	664.2	667.5	666.4
47.5°	7071.6	6223.6	3917.7	1450.2	720.7	586.7	579.0	610.0	665.3	685.2	680.8
50°	7559.8	6572.3	3815.9	1105.9	659.8	590.0	583.4	597.8	657.6	679.7	672.0
52.5°	8034.7	6907.7	3647.6	843.5	621.0	593.4	606.6	595.6	638.7	660.9	669.7
55°	8475.3	7277.5	3291.1	750.6	594.5	588.9	625.5	605.5	621.0	627.7	639.9
57.5°	8921.4	7549.8	2912.5	704.1	580.1	583.4	614.4	605.5	615.5	607.7	597.8
60°	9339.8	7836.5	2424.4	660.9	564.6	580.1	592.3	590.0	596.7	582.3	575.6
62.5°	9695.2	7991.5	1914.0	623.2	551.3	564.6	562.4	573.4	574.5	557.9	553.5
65°	9857.9	8057.9	1461.3	588.9	531.4	544.6	533.6	535.8	536.9	514.8	513.7
67.5°	9693.0	7692.6	1001.8	538.0	510.3	526.9	505.9	502.6	494.8	472.7	473.8
70°	9211.4	7082.7	668.6	464.9	464.9	493.7	481.5	473.8	455.0	433.9	440.6
72.5°	8135.4	6046.5	433.9	375.3	408.5	455.0	449.4	438.4	394.1	334.3	336.5
75°	6958.7	4798.9	288.9	273.4	312.2	394.1	374.2	347.6	329.9	348.7	372.0
77.5°	5418.8	3059.8	161.6	157.2	184.9	276.8	312.2	317.7	449.4	533.6	528.0
80°	2812.9	1554.2	94.1	77.5	109.6	186.0	245.8	334.3	557.9	420.7	407.4
82.5°	1105.9	582.3	57.6	41.0	48.7	76.4	162.7	480.4	422.9	212.5	203.7
85°	378.6	131.7	23.2	21.0	23.2	32.1	64.2	430.6	219.2	135.1	128.4
87.5°	4.4	4.4	5.5	6.6	7.7	7.7	17.7	204.8	101.8	63.1	60.9
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)