

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: P509495

Luminaire Tested: **VERD-G-CA2-110-727-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-110-727-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13896 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

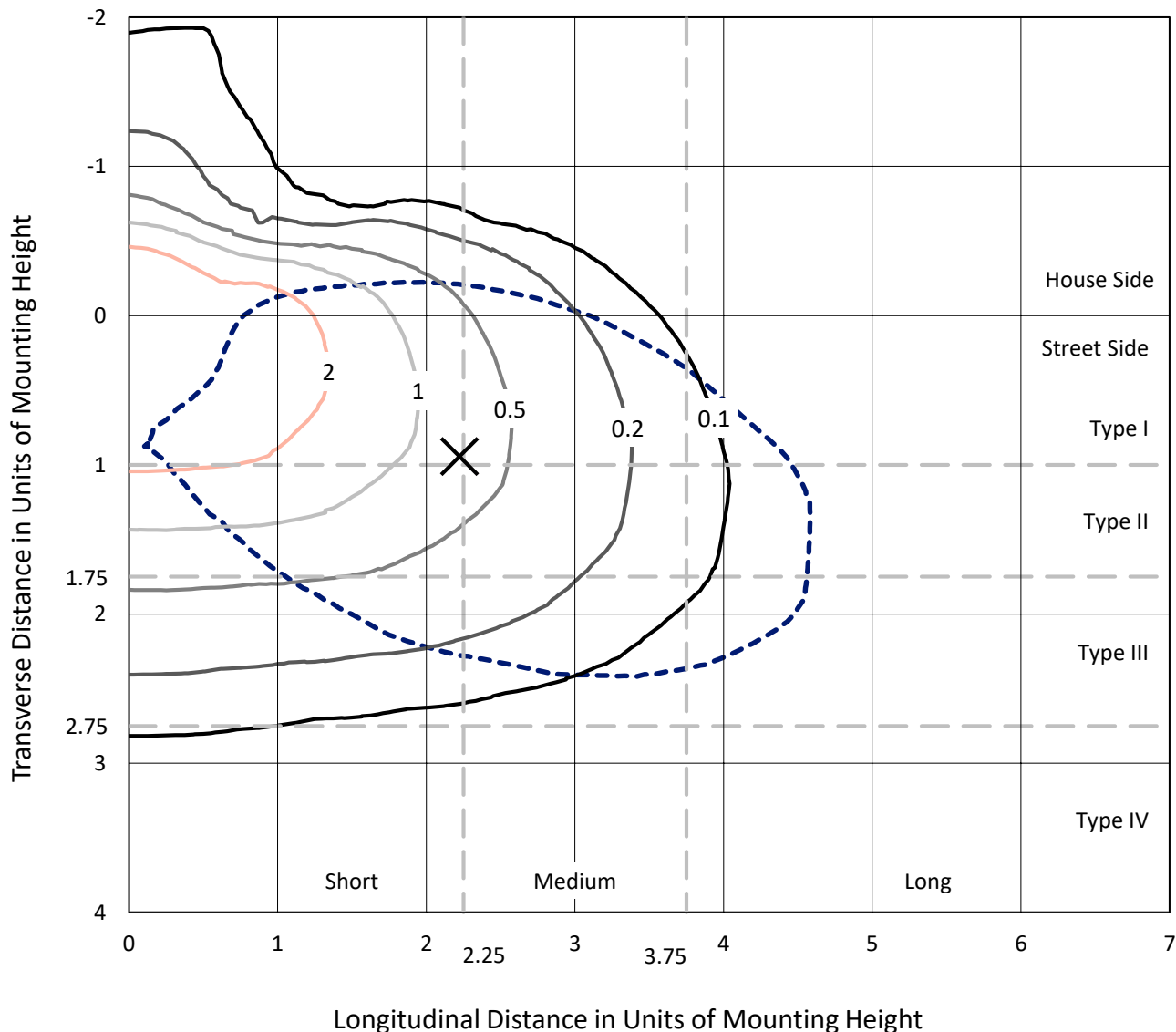
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

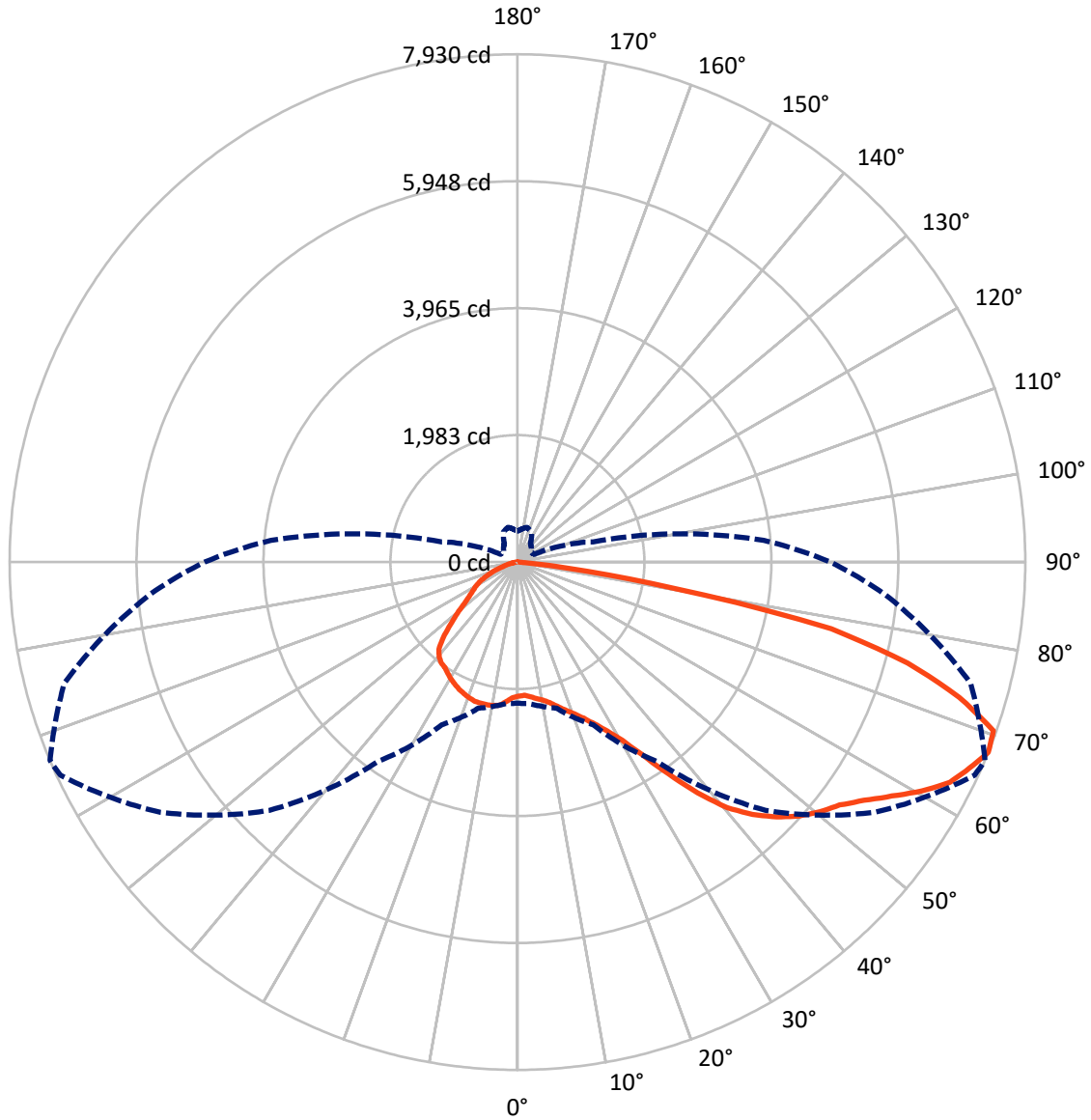
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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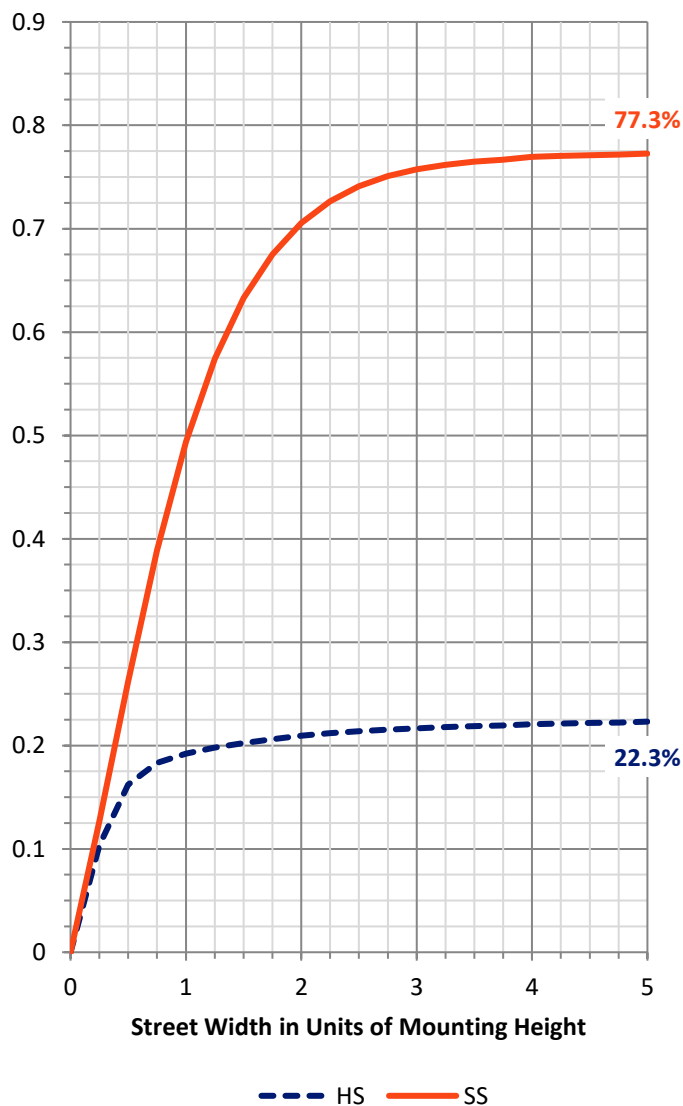
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3153.1	0.0	3153.1
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	10742.9	0.0	10742.9
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	13896.0	0.0	13896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.2	1.5
10°-20°	671.7	4.8
20°-30°	1152.0	8.3
30°-40°	1714.4	12.3
40°-50°	2344.0	16.9
50°-60°	2815.5	20.3
60°-70°	2986.9	21.5
70°-80°	1824.6	13.1
80°-90°	174.7	1.3
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°	13896.0	100.0
0°-180°	13896.0	100.0

**Coefficient of Utilization**



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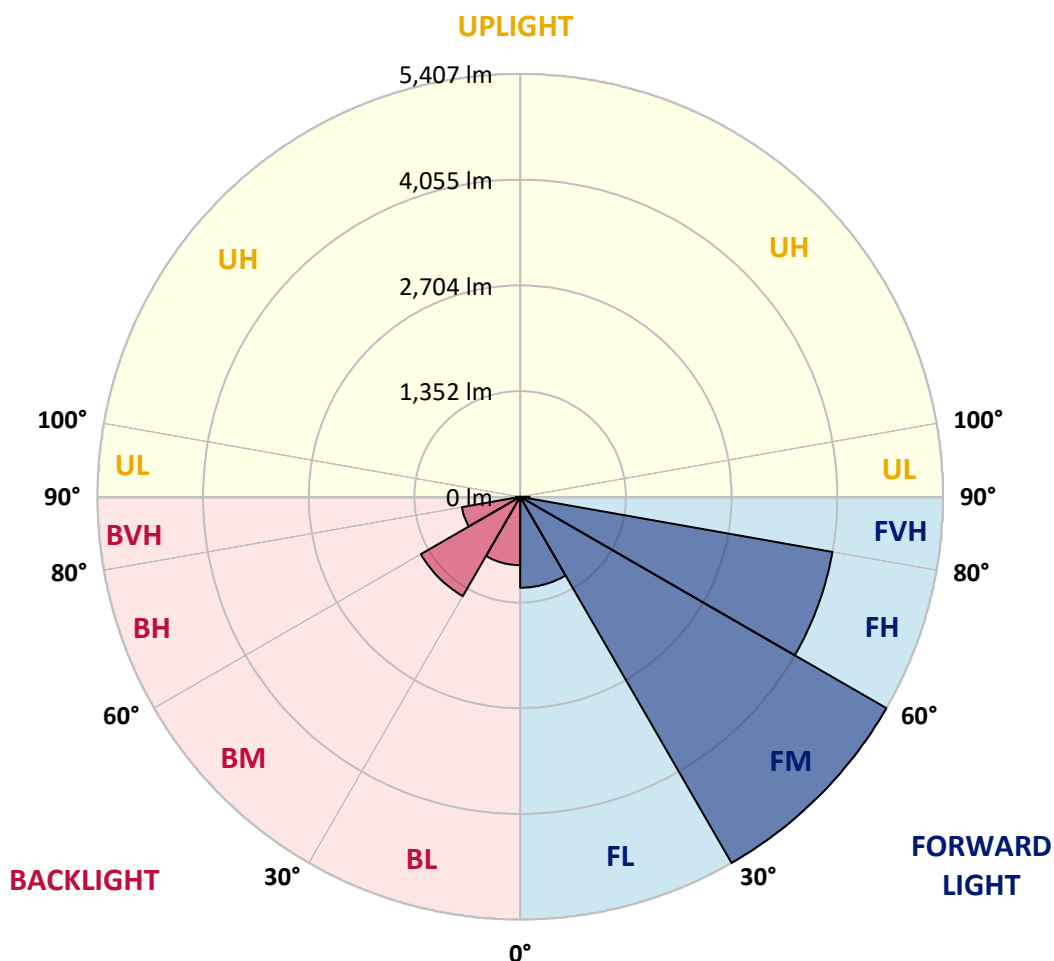
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.3	8.4			
FM (30°-60°)	5407.2	38.9			
FH (60°-80°)	4054.5	29.2			G2/5000
FVH (80°-90°)	119.0	0.9			G2/225
BL (0°-30°)	873.6	6.3	B2/1000		
BM (30°-60°)	1466.7	10.6	B2/2500		
BH (60°-80°)	757.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	55.7	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°	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1
2.5°	2128.3	2138.4	2121.8	2110.8	2098.8	2105.3	2089.6	2089.6	2082.3	2094.2	2086.9
5°	2197.3	2206.5	2178.0	2155.0	2153.1	2133.8	2132.0	2122.8	2111.7	2121.8	2132.0
7.5°	2289.4	2285.7	2265.4	2238.7	2212.0	2201.0	2182.6	2168.8	2152.2	2161.4	2164.2
10°	2401.7	2395.2	2368.5	2326.2	2305.0	2274.6	2228.6	2202.8	2190.9	2200.1	2202.8
12.5°	2521.3	2513.1	2487.3	2440.3	2403.5	2355.6	2303.2	2261.8	2253.5	2244.3	2259.9
15°	2655.7	2641.0	2618.9	2581.2	2524.1	2461.5	2389.7	2350.1	2338.2	2322.5	2315.1
17.5°	2801.2	2799.3	2770.8	2729.4	2671.4	2584.9	2492.8	2431.1	2431.1	2424.7	2385.1
20°	2957.7	2950.3	2921.8	2898.8	2816.8	2725.7	2613.4	2535.2	2526.9	2514.0	2448.6
22.5°	3115.1	3116.0	3079.2	3061.7	3000.9	2884.0	2742.3	2664.0	2647.5	2630.0	2516.7
25°	3257.8	3259.6	3248.6	3216.3	3166.6	3058.9	2910.7	2806.7	2797.5	2773.6	2636.4
27.5°	3402.3	3425.3	3393.1	3396.8	3374.7	3251.3	3103.1	2977.0	2986.2	2933.7	2746.0
30°	3573.5	3581.8	3566.2	3570.8	3556.9	3475.9	3332.3	3230.2	3230.2	3170.3	2931.9
32.5°	3710.7	3703.3	3704.2	3752.1	3758.5	3714.4	3596.5	3563.4	3591.9	3584.6	3370.1
35°	3778.8	3791.7	3827.6	3937.1	3990.5	3963.8	3950.0	3994.2	4066.0	4112.0	3848.8
37.5°	3866.2	3905.8	3950.9	4073.4	4171.9	4245.5	4321.0	4466.4	4569.5	4629.4	4303.5
40°	3956.5	3960.1	4050.4	4202.2	4394.6	4511.5	4691.0	4941.4	5042.7	4997.6	4555.7
42.5°	3886.5	3895.7	4020.9	4291.5	4532.7	4831.9	5026.1	5315.2	5385.1	5248.0	4816.2
45°	3796.3	3813.8	3972.1	4291.5	4684.6	5125.5	5347.4	5669.6	5677.9	5492.8	4973.7
47.5°	3716.2	3730.9	3897.5	4258.4	4827.3	5383.3	5606.1	5868.4	5924.6	5692.6	5182.6
50°	3609.4	3646.2	3810.1	4228.9	4893.6	5562.8	5835.3	6107.8	6127.1	5881.3	5339.1
52.5°	3493.4	3525.6	3727.2	4173.7	4978.3	5711.0	5987.2	6337.9	6302.0	6133.5	5514.9
55°	3336.9	3365.5	3598.4	4085.3	4988.4	5791.1	6096.7	6551.4	6565.3	6343.4	5685.2
57.5°	3157.4	3205.3	3417.0	3921.5	4895.4	5815.0	6285.4	6840.5	6893.9	6603.0	5821.5
60°	2963.2	3000.9	3241.2	3747.5	4772.1	5905.2	6544.1	7215.2	7257.5	6829.5	5876.7
62.5°	2764.4	2795.7	2994.5	3486.1	4545.6	5922.7	6769.6	7591.7	7577.8	7031.0	5953.1
65°	2516.7	2519.5	2707.3	3170.3	4230.8	5797.5	6885.6	7744.5	7758.3	7214.2	5865.7
67.5°	2201.9	2219.4	2362.1	2802.1	3801.8	5482.7	6812.0	7876.1	7930.4	7327.5	5754.3
70°	1753.6	1763.7	1912.9	2322.5	3232.0	4995.7	6672.0	7896.4	7884.4	7181.1	5447.7
72.5°	1247.3	1286.0	1386.3	1633.0	2479.9	4089.0	6039.6	7271.3	7216.1	6615.9	4859.5
75°	801.8	805.5	905.8	1066.9	1451.7	2898.8	5034.4	6267.9	6290.9	5738.6	3956.5
77.5°	265.1	299.2	332.3	450.1	602.0	1206.8	3398.6	4940.5	5010.5	4520.7	2699.9
80°	116.9	116.9	197.9	255.0	324.9	517.3	1355.9	2236.0	2450.5	2108.0	1040.2
82.5°	85.6	87.5	132.6	151.9	128.0	215.4	487.0	716.2	759.4	682.1	413.3
85°	48.8	50.6	57.1	65.4	54.3	87.5	107.7	110.5	111.4	96.7	75.5
87.5°	22.1	22.1	20.3	17.5	10.1	6.4	6.4	4.6	5.5	4.6	3.7
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°	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1	2095.1
2.5°	2084.1	2093.3	2113.5	2117.2	2126.4	2140.2	2157.7	2166.0	2193.6	2206.5	2210.2
5°	2133.8	2138.4	2173.4	2185.4	2226.8	2247.9	2266.4	2279.2	2313.3	2321.6	2336.3
7.5°	2171.5	2187.2	2229.5	2256.2	2282.0	2304.1	2302.3	2332.6	2350.1	2363.9	2369.5
10°	2210.2	2218.5	2261.8	2273.7	2293.1	2309.6	2314.2	2322.5	2327.1	2346.4	2352.9
12.5°	2270.0	2264.5	2270.0	2280.2	2295.8	2292.1	2302.3	2290.3	2296.7	2321.6	2312.4
15°	2314.2	2301.3	2277.4	2278.3	2268.2	2263.6	2248.9	2238.7	2237.8	2243.3	2252.5
17.5°	2363.9	2326.2	2282.0	2270.0	2232.3	2195.5	2169.7	2142.1	2137.5	2143.0	2136.6
20°	2407.2	2356.6	2280.2	2242.4	2168.8	2102.5	2064.8	2023.3	2021.5	2017.8	2010.4
22.5°	2459.7	2396.2	2279.2	2202.8	2115.4	2008.6	1930.4	1899.1	1861.3	1876.1	1874.2
25°	2537.9	2458.7	2287.5	2160.5	2018.7	1891.7	1791.4	1722.3	1684.6	1676.3	1680.0
27.5°	2634.6	2529.6	2292.1	2107.1	1930.4	1749.0	1589.8	1485.7	1462.7	1432.4	1435.1
30°	2775.4	2626.3	2314.2	2048.2	1800.6	1566.8	1377.1	1241.8	1203.1	1209.6	1211.4
32.5°	3107.7	2825.1	2329.9	1980.1	1657.9	1365.2	1117.5	982.2	951.8	962.9	969.3
35°	3544.1	3206.2	2415.5	1892.6	1495.9	1129.5	857.0	780.6	787.1	808.2	813.8
37.5°	3976.7	3610.3	2604.2	1816.2	1288.7	864.4	684.0	638.9	676.6	696.8	703.3
40°	4242.7	3879.1	2812.2	1698.4	1025.5	635.2	521.0	495.2	538.5	585.5	608.5
42.5°	4511.5	4099.1	2947.6	1554.8	733.7	462.1	387.5	408.7	479.6	526.5	537.6
45°	4682.8	4212.4	2960.4	1326.5	488.8	358.1	353.5	398.6	471.3	509.1	515.5
47.5°	4849.4	4364.3	2906.1	1062.3	368.2	340.6	350.7	403.2	475.0	517.3	516.4
50°	5015.1	4513.4	2788.3	843.2	348.0	329.6	356.2	412.4	481.4	513.7	513.7
52.5°	5116.3	4587.0	2551.7	671.1	335.1	323.1	359.0	416.1	475.0	493.4	490.6
55°	5237.8	4604.5	2392.5	558.8	321.3	318.5	364.5	426.2	474.1	475.9	469.5
57.5°	5301.4	4561.3	2262.7	475.0	309.3	320.3	371.0	429.0	500.8	522.9	526.5
60°	5273.7	4508.8	2115.4	422.5	298.3	317.6	369.1	450.1	583.6	629.6	621.4
62.5°	5247.1	4410.3	1867.8	379.3	286.3	319.4	367.3	498.9	685.8	637.9	612.2
65°	5150.4	4205.9	1545.6	337.8	271.6	320.3	363.6	551.4	702.4	644.4	600.2
67.5°	4885.3	3865.3	1222.5	293.7	254.1	307.5	355.3	518.3	562.4	506.3	482.4
70°	4490.4	3371.9	838.6	254.1	232.9	291.8	349.8	490.6	528.4	488.8	458.4
72.5°	3853.4	2649.3	464.9	212.6	204.4	272.5	348.9	484.2	532.1	418.8	385.7
75°	2930.1	1757.3	301.9	166.6	167.5	243.0	332.3	462.1	515.5	394.0	348.9
77.5°	1726.0	740.1	210.8	118.7	130.7	188.7	295.5	442.8	487.9	385.7	348.9
80°	586.4	325.9	137.2	80.1	80.1	120.6	210.8	361.8	434.5	375.6	371.9
82.5°	304.7	207.1	87.5	49.7	46.0	58.0	129.8	248.5	348.9	318.5	362.7
85°	60.8	43.3	27.6	20.3	22.1	29.5	46.0	126.1	220.9	245.8	294.6
87.5°	4.6	3.7	5.5	5.5	5.5	5.5	6.4	31.3	88.4	108.6	134.4
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)