

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: P509535

Luminaire Tested: **VERD-G-CA2-120-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509535  
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-CA2-120-722-U-T3  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14423 lumens  
Efficiency: N/A  
Efficacy: 115.7 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

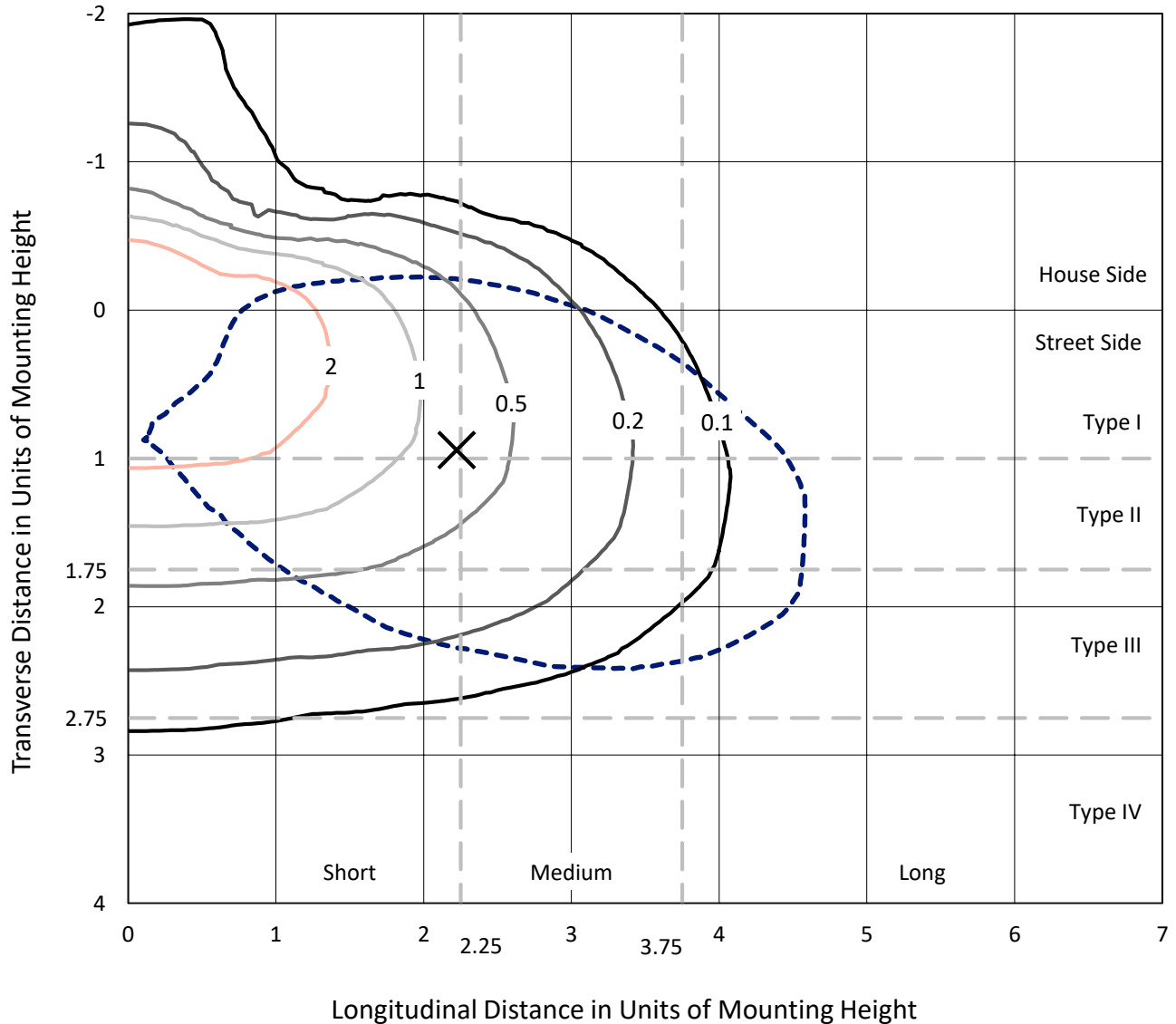
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

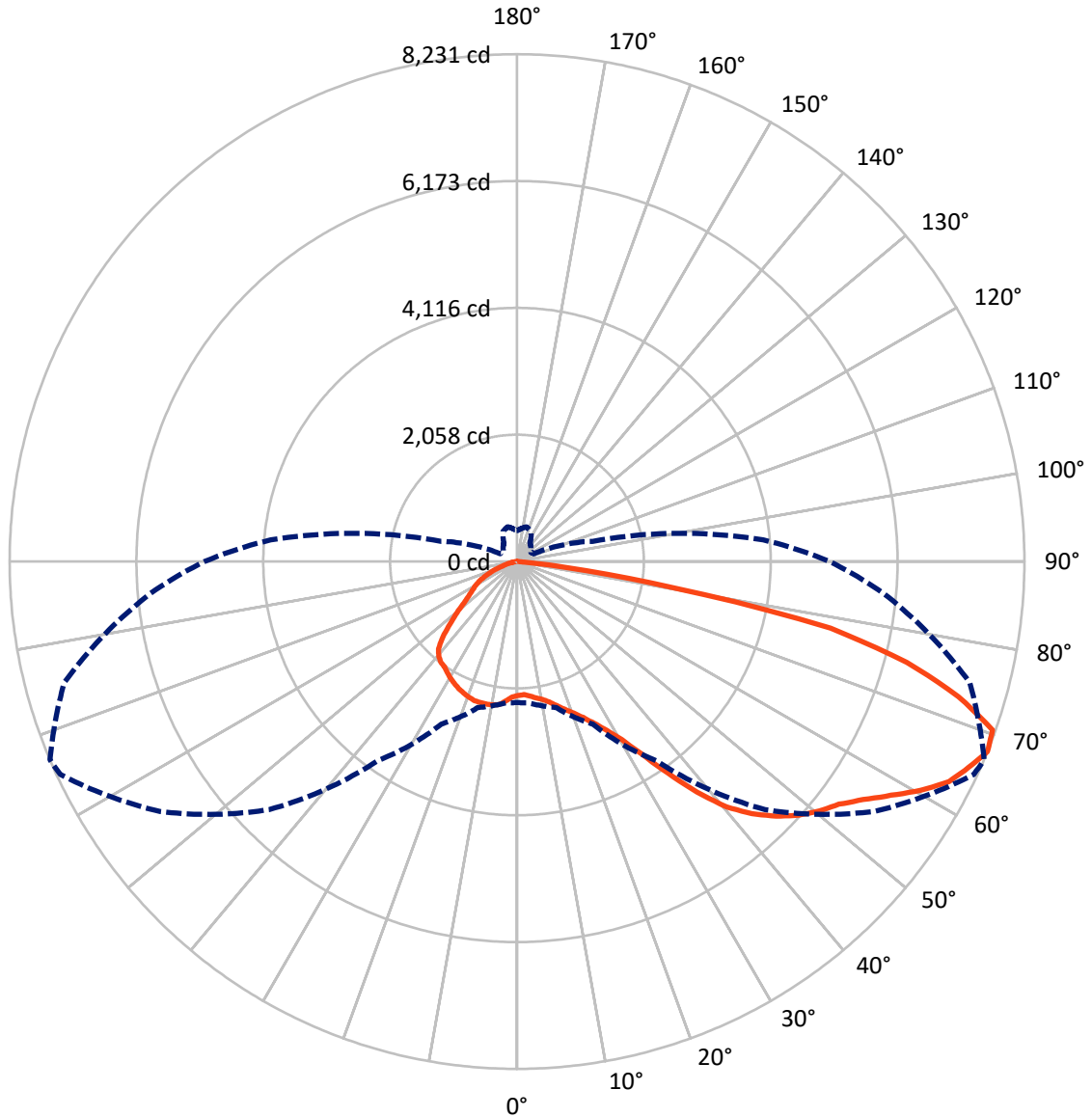
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P509535  
CATALOG NUMBER: VERD-G-CA2-120-722-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509535

CATALOG NUMBER: VERD-G-CA2-120-722-U-T3

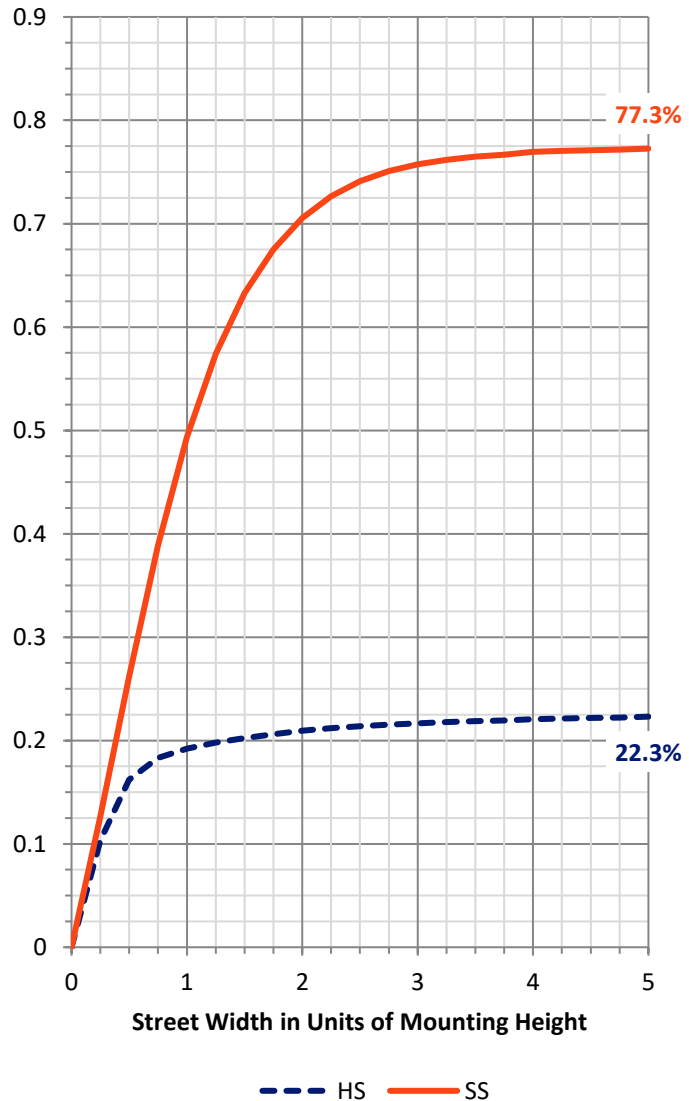
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3272.6	0.0	3272.6
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	11150.4	0.0	11150.4
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	14423.0	0.0	14423.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	1.5
10°-20°	697.1	4.8
20°-30°	1195.7	8.3
30°-40°	1779.4	12.3
40°-50°	2432.9	16.9
50°-60°	2922.3	20.3
60°-70°	3100.2	21.5
70°-80°	1893.8	13.1
80°-90°	181.4	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°	14423.0	100.0
0°-180°	14423.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509535

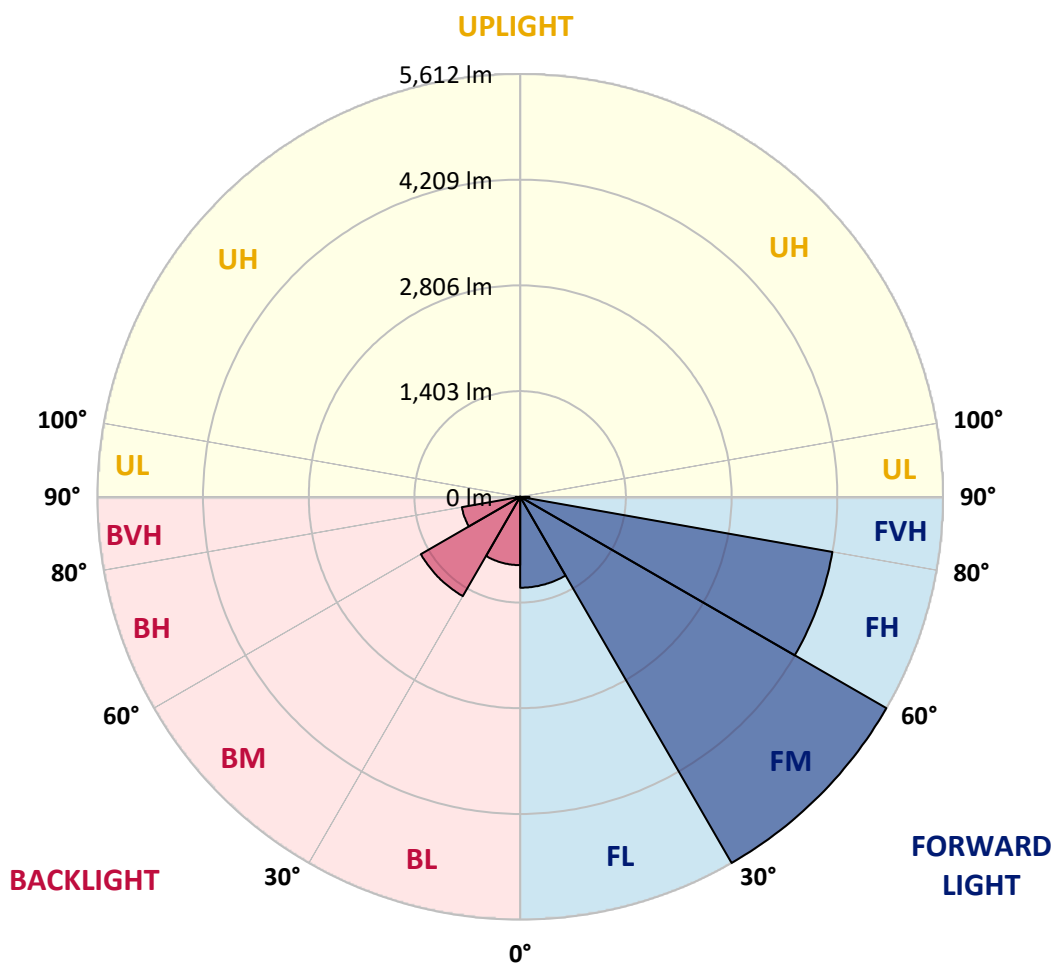
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.3	8.4			
FM (30°-60°)	5612.3	38.9			
FH (60°-80°)	4208.2	29.2			G2/5000
FVH (80°-90°)	123.5	0.9			G2/225
BL (0°-30°)	906.7	6.3	B2/1000		
BM (30°-60°)	1522.3	10.6	B2/2500		
BH (60°-80°)	785.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	57.9	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°	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6
2.5°	2209.0	2219.5	2202.3	2190.8	2178.4	2185.1	2168.9	2168.9	2161.2	2173.6	2166.0
5°	2280.6	2290.2	2260.6	2236.7	2234.8	2214.7	2212.8	2203.3	2191.8	2202.3	2212.8
7.5°	2376.2	2372.4	2351.4	2323.6	2295.9	2284.5	2265.4	2251.0	2233.8	2243.4	2246.3
10°	2492.8	2486.1	2458.4	2414.4	2392.4	2360.9	2313.1	2286.4	2274.0	2283.5	2286.4
12.5°	2617.0	2608.4	2581.6	2532.9	2494.7	2445.0	2390.5	2347.5	2338.9	2329.4	2345.6
15°	2756.5	2741.2	2718.2	2679.1	2619.8	2554.9	2480.3	2439.3	2426.8	2410.6	2402.9
17.5°	2907.4	2905.5	2875.9	2832.9	2772.7	2682.9	2587.3	2523.3	2523.3	2516.6	2475.6
20°	3069.8	3062.2	3032.6	3008.7	2923.7	2829.1	2712.5	2631.3	2622.7	2609.3	2541.5
22.5°	3233.2	3234.2	3196.0	3177.8	3114.8	2993.4	2846.3	2765.1	2747.9	2729.7	2612.2
25°	3381.3	3383.2	3371.8	3338.3	3286.7	3174.9	3021.1	2913.2	2903.6	2878.8	2736.4
27.5°	3531.3	3555.2	3521.8	3525.6	3502.7	3374.6	3220.8	3089.9	3099.5	3045.0	2850.1
30°	3709.0	3717.6	3701.4	3706.2	3691.8	3607.8	3458.7	3352.7	3352.7	3290.6	3043.1
32.5°	3851.4	3843.8	3844.7	3894.4	3901.1	3855.2	3732.9	3698.5	3728.2	3720.5	3497.9
35°	3922.1	3935.5	3972.7	4086.4	4141.9	4114.2	4099.8	4145.7	4220.2	4268.0	3994.7
37.5°	4012.9	4054.0	4100.8	4227.8	4330.1	4406.5	4484.9	4635.8	4742.8	4804.9	4466.7
40°	4106.5	4110.3	4204.0	4361.6	4561.3	4682.6	4869.0	5128.8	5233.9	5187.1	4728.5
42.5°	4033.9	4043.4	4173.4	4454.3	4704.6	5015.1	5216.7	5516.7	5589.4	5447.0	4998.9
45°	3940.3	3958.4	4122.7	4454.3	4862.3	5319.9	5550.2	5884.6	5893.2	5701.1	5162.3
47.5°	3857.1	3872.4	4045.4	4419.9	5010.4	5587.4	5818.7	6091.0	6149.3	5908.5	5379.2
50°	3746.3	3784.5	3954.6	4389.3	5079.2	5773.8	6056.6	6339.4	6359.4	6104.3	5541.6
52.5°	3625.9	3659.4	3868.6	4332.0	5167.1	5927.6	6214.2	6578.2	6541.0	6366.1	5724.1
55°	3463.5	3493.1	3734.8	4240.3	5177.6	6010.7	6327.9	6799.9	6814.2	6584.0	5900.8
57.5°	3277.2	3326.9	3546.6	4070.2	5081.1	6035.6	6523.8	7099.9	7155.3	6853.4	6042.2
60°	3075.6	3114.8	3364.1	3889.6	4953.0	6129.2	6792.3	7488.8	7532.7	7088.5	6099.6
62.5°	2869.2	2901.7	3108.1	3618.3	4718.0	6147.3	7026.4	7879.6	7865.2	7297.7	6178.9
65°	2612.2	2615.1	2810.0	3290.6	4391.2	6017.4	7146.7	8038.2	8052.5	7487.8	6088.1
67.5°	2285.4	2303.6	2451.7	2908.4	3946.0	5690.6	7070.3	8174.8	8231.2	7605.4	5972.5
70°	1820.1	1830.6	1985.4	2410.6	3354.6	5185.2	6925.1	8195.8	8183.4	7453.4	5654.3
72.5°	1294.6	1334.8	1438.9	1695.0	2574.0	4244.1	6268.7	7547.1	7489.7	6866.8	5043.8
75°	832.2	836.0	940.2	1107.4	1506.7	3008.7	5225.3	6505.6	6529.5	5956.3	4106.5
77.5°	275.2	310.5	344.9	467.2	624.9	1252.6	3527.5	5127.9	5200.5	4692.2	2802.3
80°	121.3	121.3	205.4	264.7	337.3	537.0	1407.4	2320.8	2543.4	2188.0	1079.7
82.5°	88.9	90.8	137.6	157.6	132.8	223.6	505.4	743.3	788.2	708.0	429.0
85°	50.6	52.5	59.2	67.8	56.4	90.8	111.8	114.7	115.6	100.3	78.3
87.5°	22.9	22.9	21.0	18.2	10.5	6.7	6.7	4.8	5.7	4.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509535  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6	2174.6
2.5°	2163.1	2172.7	2193.7	2197.5	2207.1	2221.4	2239.6	2248.2	2276.8	2290.2	2294.0
5°	2214.7	2219.5	2255.8	2268.2	2311.2	2333.2	2352.3	2365.7	2401.0	2409.6	2424.9
7.5°	2253.9	2270.1	2314.1	2341.8	2368.6	2391.5	2389.6	2421.1	2439.3	2453.6	2459.3
10°	2294.0	2302.6	2347.5	2360.0	2380.0	2397.2	2402.0	2410.6	2415.4	2435.4	2442.1
12.5°	2356.1	2350.4	2356.1	2366.6	2382.9	2379.1	2389.6	2377.1	2383.8	2409.6	2400.1
15°	2402.0	2388.6	2363.8	2364.7	2354.2	2349.4	2334.2	2323.6	2322.7	2328.4	2338.0
17.5°	2453.6	2414.4	2368.6	2356.1	2317.0	2278.7	2252.0	2223.3	2218.5	2224.3	2217.6
20°	2498.5	2445.9	2366.6	2327.5	2251.0	2182.2	2143.1	2100.1	2098.2	2094.3	2086.7
22.5°	2553.0	2487.0	2365.7	2286.4	2195.6	2084.8	2003.6	1971.1	1931.9	1947.2	1945.3
25°	2634.2	2552.0	2374.3	2242.4	2095.3	1963.4	1859.3	1787.6	1748.5	1739.9	1743.7
27.5°	2734.5	2625.6	2379.1	2187.0	2003.6	1815.3	1650.1	1542.1	1518.2	1486.7	1489.5
30°	2880.7	2725.9	2402.0	2125.9	1868.9	1626.2	1429.3	1288.9	1248.8	1255.5	1257.4
32.5°	3225.6	2932.3	2418.2	2055.2	1720.8	1416.9	1159.9	1019.5	987.9	999.4	1006.1
35°	3678.5	3327.8	2507.1	1964.4	1552.6	1172.3	889.5	810.2	816.9	838.9	844.6
37.5°	4127.5	3747.3	2703.0	1885.1	1337.6	897.2	709.9	663.1	702.3	723.3	730.0
40°	4403.7	4026.2	2918.9	1762.8	1064.4	659.3	540.8	514.0	558.9	607.7	631.5
42.5°	4682.6	4254.6	3059.3	1613.7	761.5	479.6	402.2	424.2	497.8	546.5	558.0
45°	4860.4	4372.1	3072.7	1376.8	507.3	371.7	366.9	413.7	489.2	528.4	535.0
47.5°	5033.3	4529.8	3016.3	1102.6	382.2	353.5	364.0	418.5	493.0	537.0	536.0
50°	5205.3	4684.6	2894.0	875.2	361.2	342.0	369.8	428.0	499.7	533.1	533.1
52.5°	5310.4	4761.0	2648.5	696.5	347.8	335.4	372.6	431.9	493.0	512.1	509.3
55°	5436.5	4779.1	2483.2	580.0	333.5	330.6	378.4	442.4	492.1	494.0	487.3
57.5°	5502.4	4734.2	2348.5	493.0	321.0	332.5	385.0	445.2	519.8	542.7	546.5
60°	5473.8	4679.8	2195.6	438.5	309.6	329.6	383.1	467.2	605.8	653.5	644.9
62.5°	5446.0	4577.5	1938.6	393.6	297.1	331.5	381.2	517.9	711.8	662.1	635.4
65°	5345.7	4365.4	1604.2	350.6	281.9	332.5	377.4	572.3	729.0	668.8	623.0
67.5°	5070.6	4011.9	1268.8	304.8	263.7	319.1	368.8	537.9	583.8	525.5	500.7
70°	4660.7	3499.8	870.4	263.7	241.7	302.9	363.1	509.3	548.4	507.3	475.8
72.5°	3999.5	2749.8	482.5	220.7	212.1	282.8	362.1	502.6	552.2	434.7	400.3
75°	3041.2	1823.9	313.4	172.9	173.9	252.2	344.9	479.6	535.0	408.9	362.1
77.5°	1791.5	768.2	218.8	123.3	135.7	195.9	306.7	459.6	506.4	400.3	362.1
80°	608.6	338.2	142.4	83.1	83.1	125.2	218.8	375.5	451.0	389.8	386.0
82.5°	316.3	215.0	90.8	51.6	47.8	60.2	134.7	258.0	362.1	330.6	376.4
85°	63.1	44.9	28.7	21.0	22.9	30.6	47.8	130.9	229.3	255.1	305.7
87.5°	4.8	3.8	5.7	5.7	5.7	5.7	6.7	32.5	91.7	112.7	139.5
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)