

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: P509447

Luminaire Tested: **VERD-G-CA2-100-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509447
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-CA2-100-727-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 930mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12783 lumens
Efficiency: N/A
Efficacy: 124.6 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

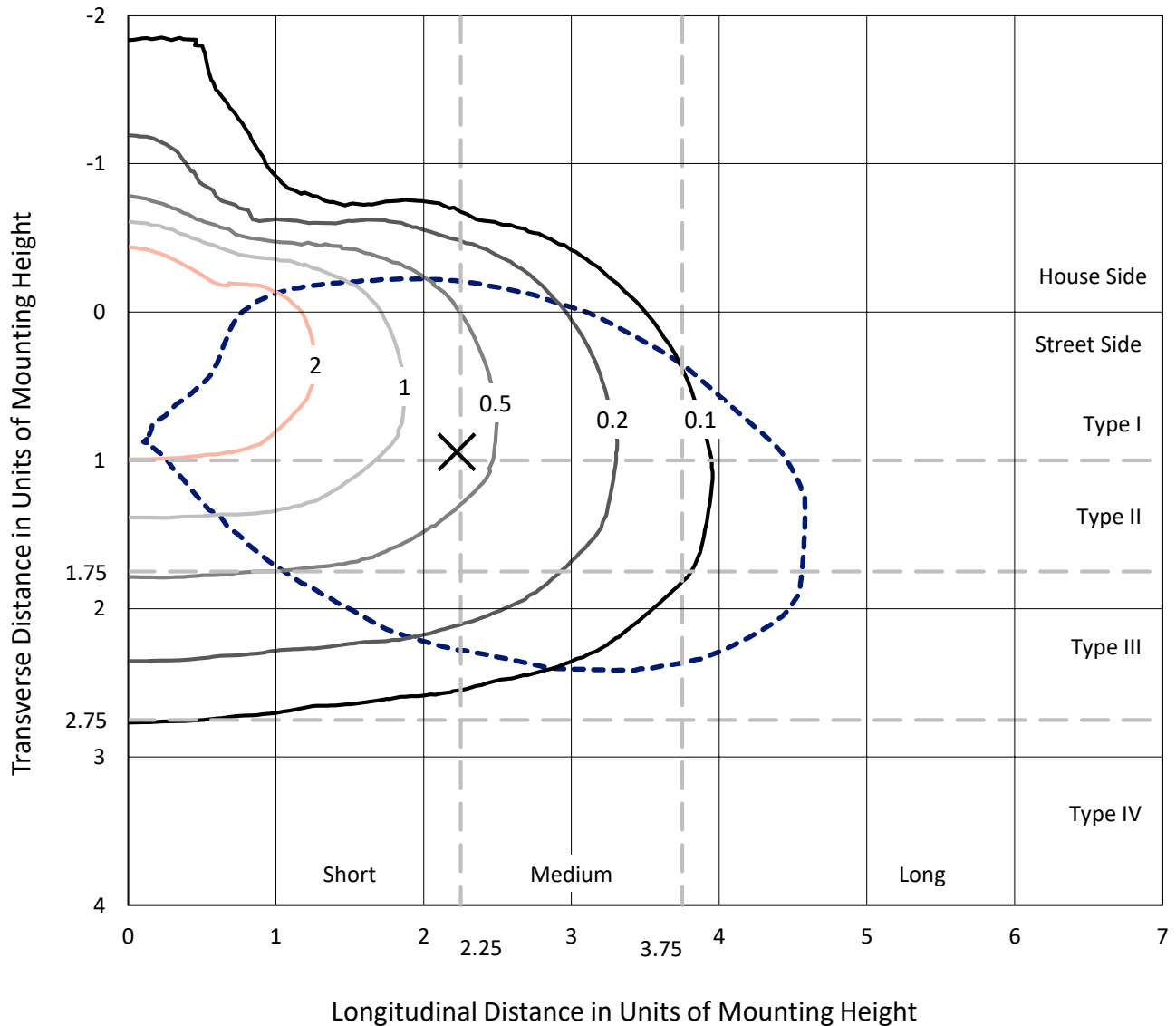
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

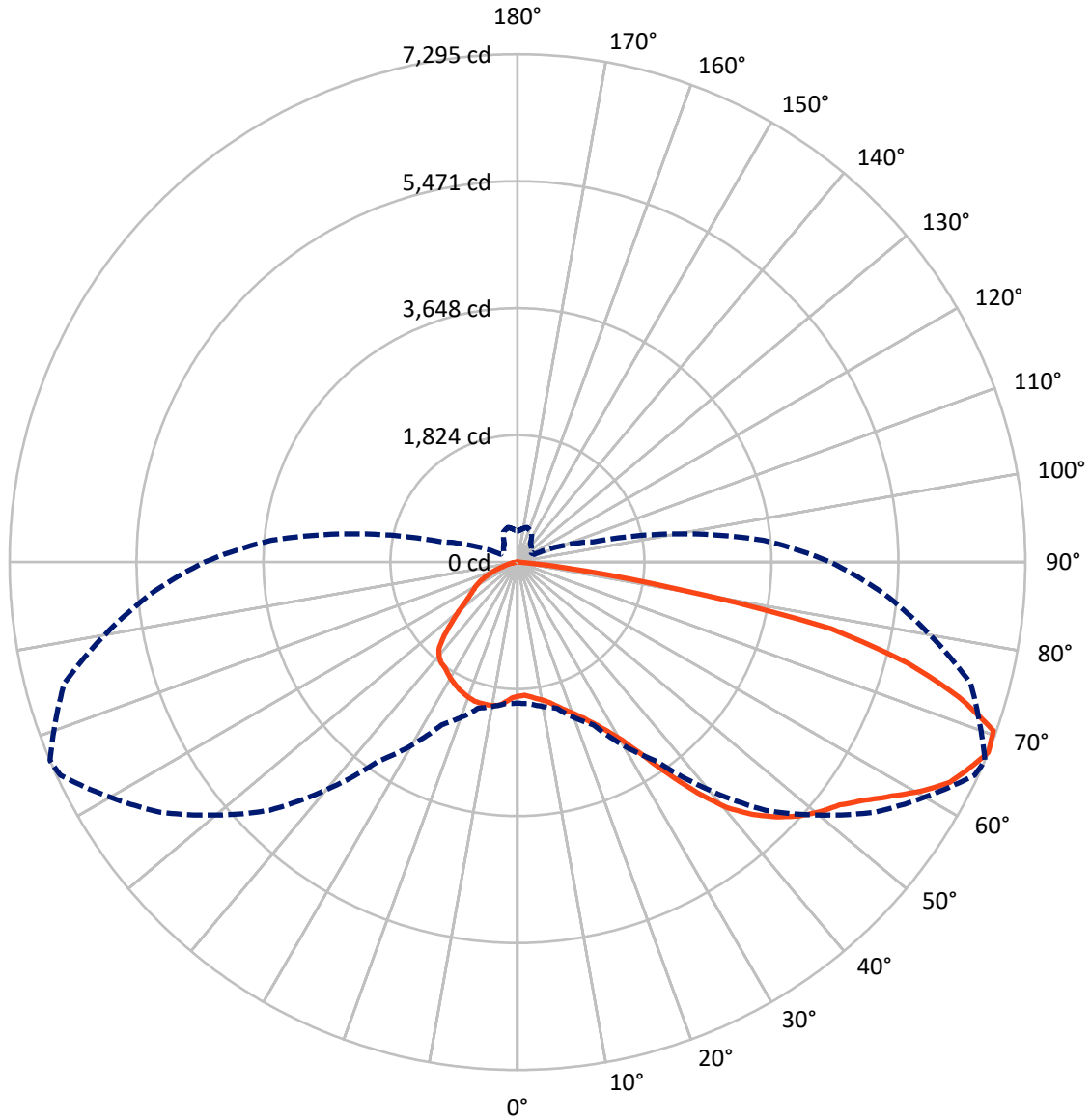
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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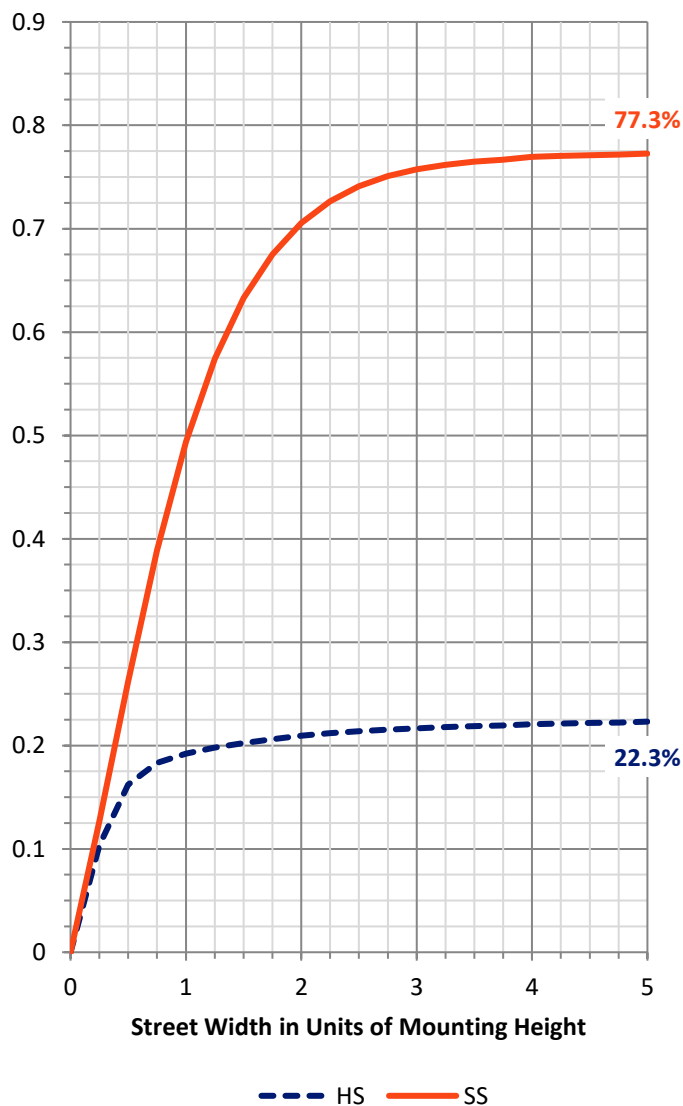
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2900.5	0.0	2900.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9882.5	0.0	9882.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	12783.0	0.0	12783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.5
10°-20°	617.9	4.8
20°-30°	1059.7	8.3
30°-40°	1577.1	12.3
40°-50°	2156.2	16.9
50°-60°	2590.0	20.3
60°-70°	2747.7	21.5
70°-80°	1678.5	13.1
80°-90°	160.7	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°	12783.0	100.0
0°-180°	12783.0	100.0

Coefficient of Utilization



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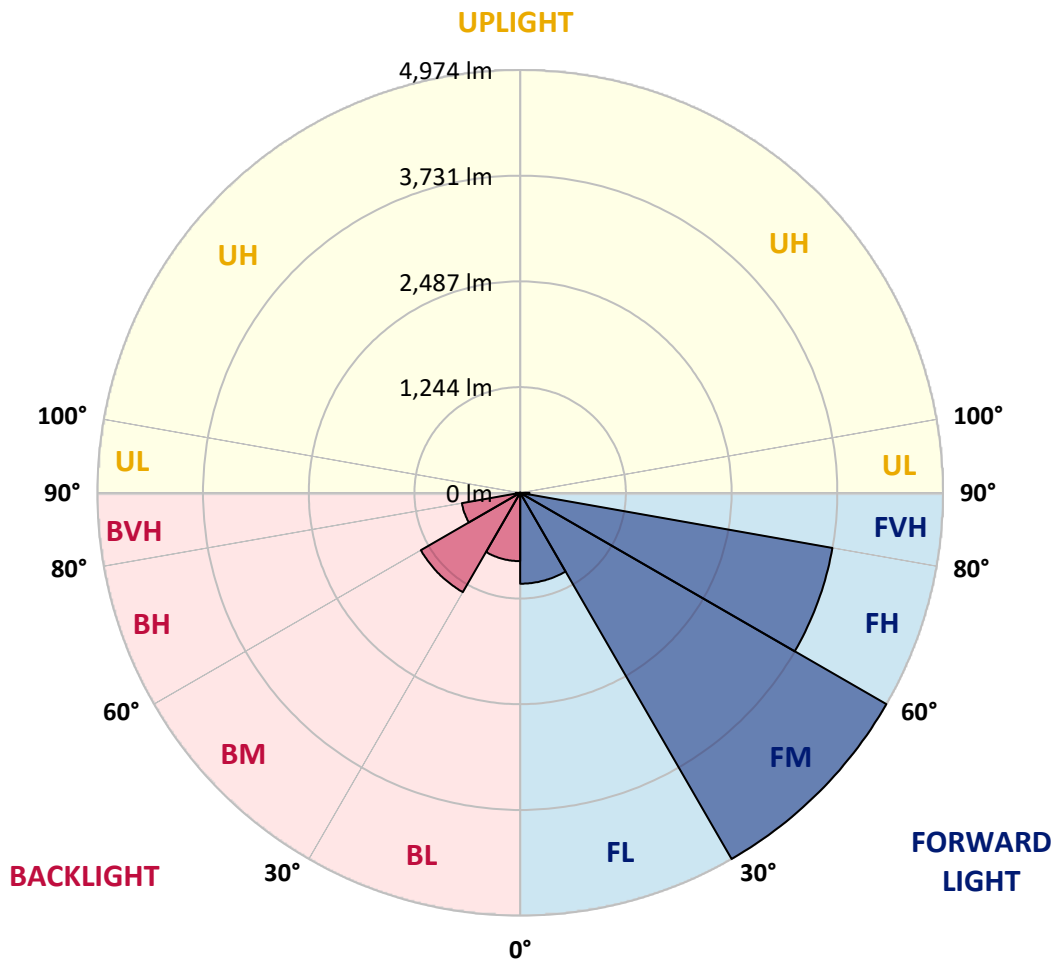
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.2	8.4			
FM (30°-60°)	4974.1	38.9			
FH (60°-80°)	3729.7	29.2			G2/5000
FVH (80°-90°)	109.5	0.9			G2/225
BL (0°-30°)	803.6	6.3	B2/1000		
BM (30°-60°)	1349.2	10.6	B2/2500		
BH (60°-80°)	696.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	51.3	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°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1957.8	1967.1	1951.9	1941.7	1930.7	1936.6	1922.2	1922.2	1915.5	1926.5	1919.7
5°	2021.3	2029.8	2003.5	1982.4	1980.7	1962.9	1961.2	1952.7	1942.6	1951.9	1961.2
7.5°	2106.0	2102.6	2084.0	2059.4	2034.9	2024.7	2007.8	1995.1	1979.8	1988.3	1990.8
10°	2209.3	2203.4	2178.8	2139.9	2120.4	2092.5	2050.1	2026.4	2015.4	2023.9	2026.4
12.5°	2319.4	2311.8	2288.1	2244.9	2211.0	2167.0	2118.7	2080.6	2073.0	2064.5	2078.9
15°	2443.0	2429.5	2409.2	2374.4	2321.9	2264.4	2198.3	2161.9	2150.9	2136.5	2129.7
17.5°	2576.8	2575.1	2548.9	2510.8	2457.4	2377.8	2293.1	2236.4	2236.4	2230.5	2194.1
20°	2720.8	2714.0	2687.8	2666.6	2591.2	2507.4	2404.1	2332.1	2324.5	2312.6	2252.5
22.5°	2865.6	2866.4	2832.6	2816.5	2760.6	2653.0	2522.6	2450.7	2435.4	2419.3	2315.2
25°	2996.8	2998.5	2988.4	2958.7	2913.0	2813.9	2677.6	2581.9	2573.4	2551.4	2425.2
27.5°	3129.8	3151.0	3121.3	3124.7	3104.4	2990.9	2854.6	2738.6	2747.0	2698.8	2526.0
30°	3287.3	3294.9	3280.5	3284.8	3272.1	3197.5	3065.4	2971.4	2971.4	2916.4	2697.1
32.5°	3413.5	3406.7	3407.5	3451.6	3457.5	3416.9	3308.5	3278.0	3304.2	3297.5	3100.2
35°	3476.1	3488.0	3521.0	3621.8	3670.9	3646.3	3633.6	3674.3	3740.3	3782.7	3540.5
37.5°	3556.6	3593.0	3634.5	3747.1	3837.7	3905.5	3974.9	4108.7	4203.5	4258.6	3958.8
40°	3639.6	3643.0	3725.9	3865.7	4042.6	4150.2	4315.3	4545.6	4638.8	4597.3	4190.8
42.5°	3575.2	3583.7	3698.8	3947.8	4169.7	4444.9	4623.6	4889.5	4953.8	4827.6	4430.5
45°	3492.2	3508.3	3654.0	3947.8	4309.4	4715.0	4919.1	5215.5	5223.1	5052.9	4575.3
47.5°	3418.6	3432.1	3585.4	3917.3	4440.6	4952.1	5157.0	5398.4	5450.0	5236.6	4767.5
50°	3320.3	3354.2	3504.9	3890.2	4501.6	5117.2	5367.9	5618.6	5636.3	5410.2	4911.5
52.5°	3213.6	3243.3	3428.7	3839.4	4579.5	5253.6	5507.6	5830.3	5797.2	5642.3	5073.2
55°	3069.7	3095.9	3310.2	3758.1	4588.8	5327.2	5608.4	6026.7	6039.4	5835.3	5229.9
57.5°	2904.5	2948.6	3143.3	3607.4	4503.3	5349.3	5782.0	6292.6	6341.7	6074.1	5355.2
60°	2725.9	2760.6	2981.6	3447.3	4389.8	5432.3	6019.9	6637.3	6676.2	6282.4	5406.0
62.5°	2543.0	2571.7	2754.7	3206.9	4181.5	5448.3	6227.4	6983.6	6970.9	6467.9	5476.3
65°	2315.2	2317.7	2490.5	2916.4	3891.9	5333.2	6334.1	7124.2	7136.9	6636.4	5395.8
67.5°	2025.6	2041.6	2172.9	2577.7	3497.3	5043.6	6266.4	7245.3	7295.2	6740.6	5293.4
70°	1613.2	1622.5	1759.7	2136.5	2973.1	4595.6	6137.6	7263.9	7252.9	6605.9	5011.4
72.5°	1147.4	1183.0	1275.3	1502.2	2281.3	3761.5	5555.9	6688.9	6638.1	6086.0	4470.3
75°	737.6	741.0	833.3	981.4	1335.4	2666.6	4631.2	5765.9	5787.1	5279.0	3639.6
77.5°	243.9	275.2	305.7	414.1	553.8	1110.2	3126.4	4544.8	4609.2	4158.7	2483.7
80°	107.5	107.5	182.1	234.6	298.9	475.9	1247.3	2056.9	2254.2	1939.2	956.9
82.5°	78.8	80.4	121.9	139.7	117.7	198.2	448.0	658.8	698.6	627.5	380.2
85°	44.9	46.6	52.5	60.1	50.0	80.4	99.1	101.6	102.5	88.9	69.4
87.5°	20.3	20.3	18.6	16.1	9.3	5.9	5.9	4.2	5.1	4.2	3.4
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°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1917.2	1925.6	1944.3	1947.7	1956.1	1968.8	1984.9	1992.5	2017.9	2029.8	2033.2
5°	1962.9	1967.1	1999.3	2010.3	2048.4	2067.9	2084.8	2096.7	2128.0	2135.6	2149.2
7.5°	1997.6	2012.0	2051.0	2075.5	2099.2	2119.6	2117.9	2145.8	2161.9	2174.6	2179.7
10°	2033.2	2040.8	2080.6	2091.6	2109.4	2124.6	2128.9	2136.5	2140.7	2158.5	2164.4
12.5°	2088.2	2083.1	2088.2	2097.5	2111.9	2108.5	2117.9	2106.9	2112.8	2135.6	2127.2
15°	2128.9	2117.0	2095.0	2095.8	2086.5	2082.3	2068.7	2059.4	2058.6	2063.7	2072.1
17.5°	2174.6	2139.9	2099.2	2088.2	2053.5	2019.6	1995.9	1970.5	1966.3	1971.4	1965.4
20°	2214.4	2167.8	2097.5	2062.8	1995.1	1934.1	1899.4	1861.3	1859.6	1856.2	1849.4
22.5°	2262.7	2204.2	2096.7	2026.4	1946.0	1847.7	1775.7	1747.0	1712.2	1725.8	1724.1
25°	2334.6	2261.8	2104.3	1987.5	1857.0	1740.2	1647.9	1584.4	1549.7	1542.0	1545.4
27.5°	2423.6	2327.0	2108.5	1938.3	1775.7	1608.9	1462.4	1366.7	1345.6	1317.6	1320.2
30°	2553.1	2415.9	2128.9	1884.1	1656.4	1441.3	1266.8	1142.3	1106.8	1112.7	1114.4
32.5°	2858.8	2598.8	2143.3	1821.5	1525.1	1255.8	1028.0	903.5	875.6	885.8	891.7
35°	3260.2	2949.4	2222.0	1741.0	1376.1	1039.0	788.4	718.1	724.0	743.5	748.6
37.5°	3658.2	3321.2	2395.6	1670.7	1185.5	795.1	629.2	587.7	622.4	641.0	647.0
40°	3902.9	3568.4	2587.0	1562.4	943.3	584.3	479.3	455.6	495.4	538.6	559.7
42.5°	4150.2	3770.8	2711.5	1430.3	674.9	425.1	356.5	376.0	441.2	484.4	494.5
45°	4307.7	3875.0	2723.3	1220.2	449.7	329.4	325.2	366.7	433.6	468.3	474.2
47.5°	4461.0	4014.7	2673.4	977.2	338.7	313.3	322.6	370.9	437.0	475.9	475.1
50°	4613.4	4151.9	2565.0	775.7	320.1	303.2	327.7	379.4	442.9	472.5	472.5
52.5°	4706.5	4219.6	2347.3	617.3	308.2	297.2	330.3	382.8	437.0	453.9	451.3
55°	4818.3	4235.7	2200.8	514.0	295.5	293.0	335.3	392.1	436.1	437.8	431.9
57.5°	4876.7	4195.9	2081.4	437.0	284.5	294.7	341.3	394.6	460.7	481.0	484.4
60°	4851.3	4147.7	1946.0	388.7	274.4	292.1	339.6	414.1	536.9	579.2	571.6
62.5°	4826.8	4057.0	1718.2	348.9	263.4	293.8	337.9	459.0	630.9	586.8	563.1
65°	4737.9	3869.1	1421.8	310.8	249.8	294.7	334.5	507.2	646.1	592.8	552.1
67.5°	4494.0	3555.7	1124.6	270.1	233.7	282.8	326.9	476.8	517.4	465.7	443.7
70°	4130.7	3101.8	771.4	233.7	214.2	268.4	321.8	451.3	486.1	449.7	421.7
72.5°	3544.7	2437.1	427.6	195.6	188.0	250.7	320.9	445.4	489.5	385.3	354.8
75°	2695.4	1616.6	277.8	153.3	154.1	223.6	305.7	425.1	474.2	362.4	320.9
77.5°	1587.8	680.8	193.9	109.2	120.2	173.6	271.8	407.3	448.8	354.8	320.9
80°	539.4	299.8	126.2	73.7	73.7	110.9	193.9	332.8	399.7	345.5	342.1
82.5°	280.3	190.5	80.4	45.7	42.3	53.3	119.4	228.6	320.9	293.0	333.6
85°	55.9	39.8	25.4	18.6	20.3	27.1	42.3	116.0	203.2	226.1	271.0
87.5°	4.2	3.4	5.1	5.1	5.1	5.1	5.9	28.8	81.3	99.9	123.6
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)