

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: P553557

Luminaire Tested: **VERD-G-CA2-150-727-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-727-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18239 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

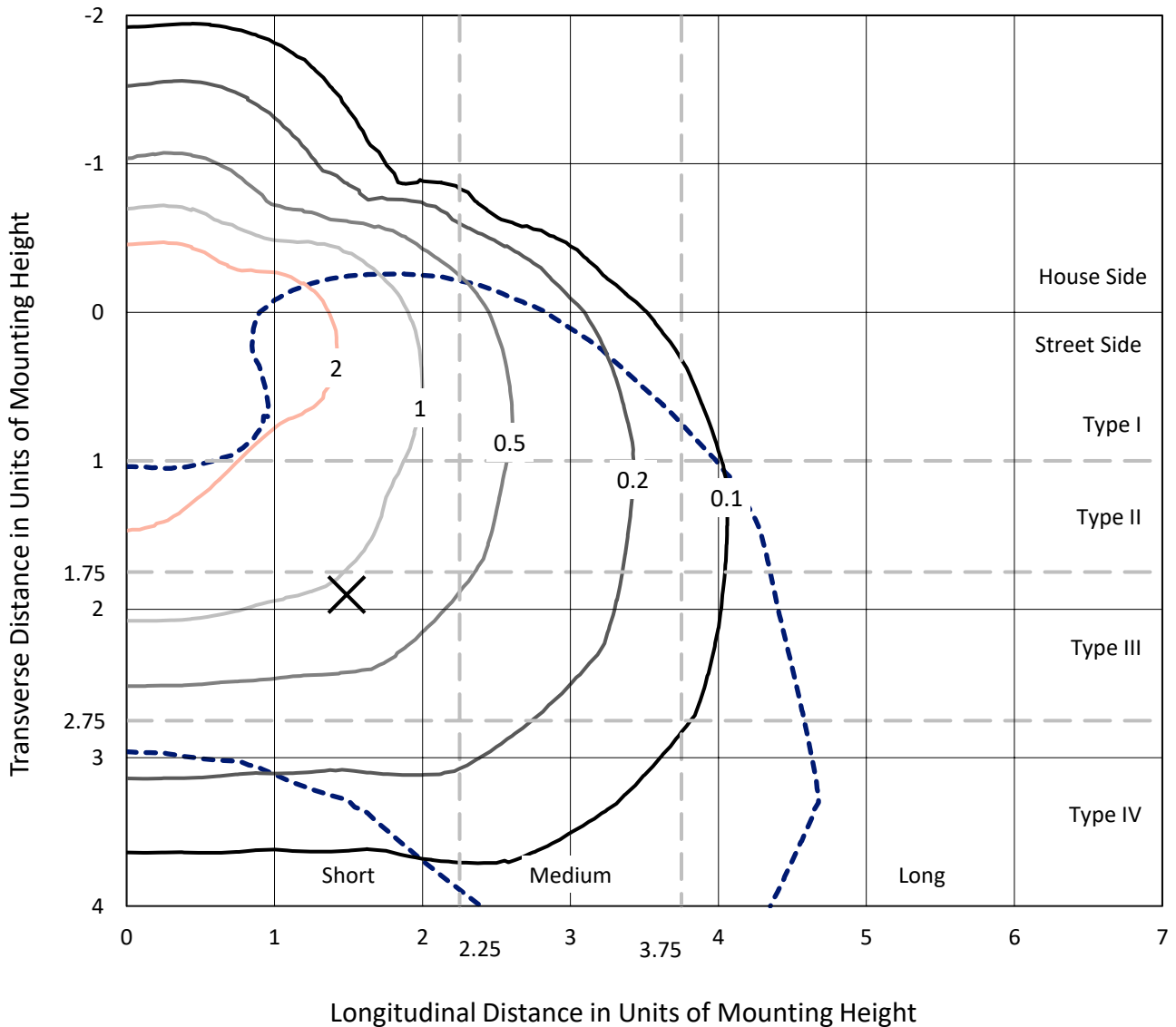
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553557
 CATALOG NUMBER: VERD-G-CA2-150-727-U-T4

Iso-Footcandle Lines of Horizontal Illumination

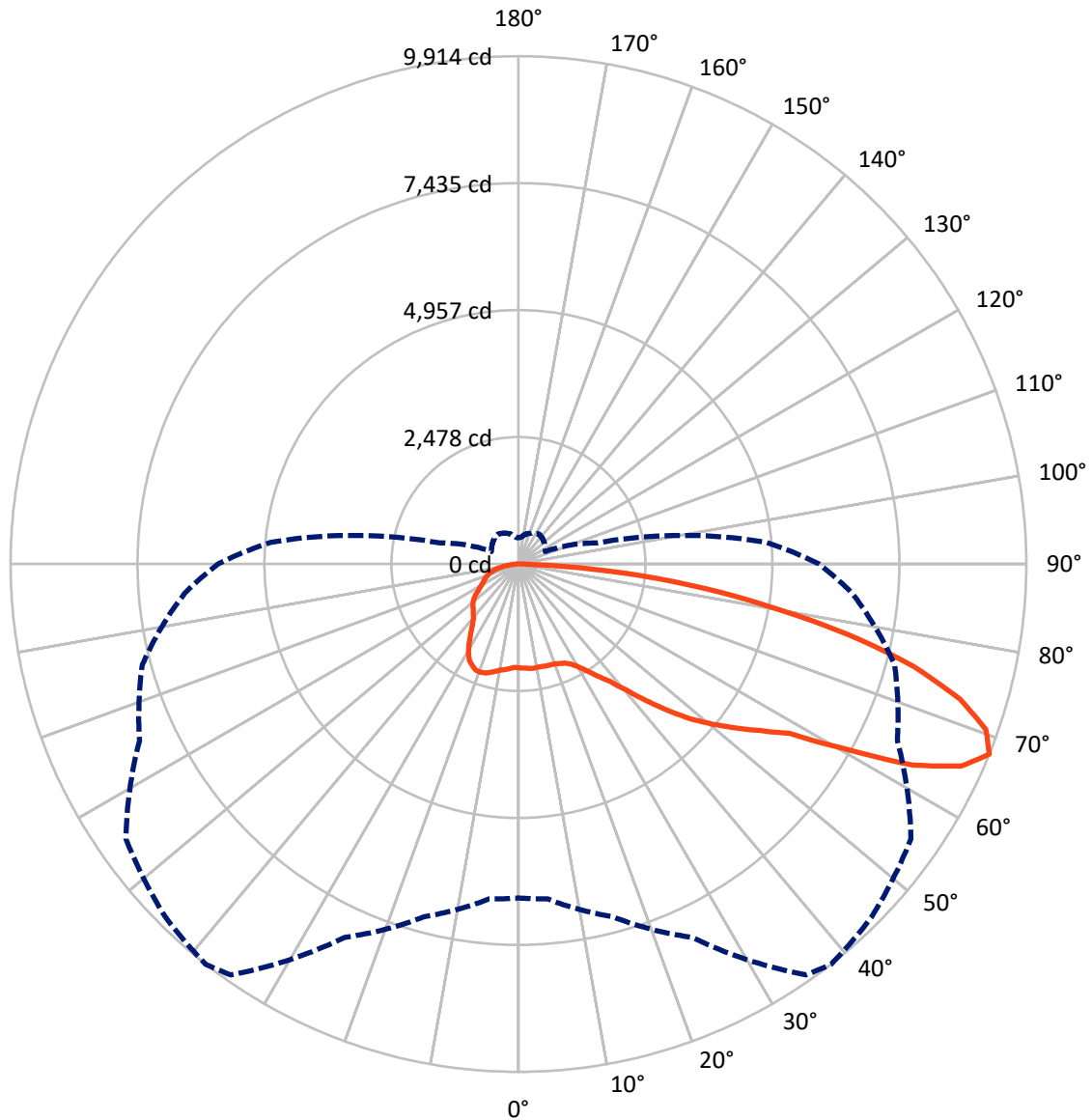
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P553557
CATALOG NUMBER: VERD-G-CA2-150-727-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: VERD-G-CA2-150-727-U-T4

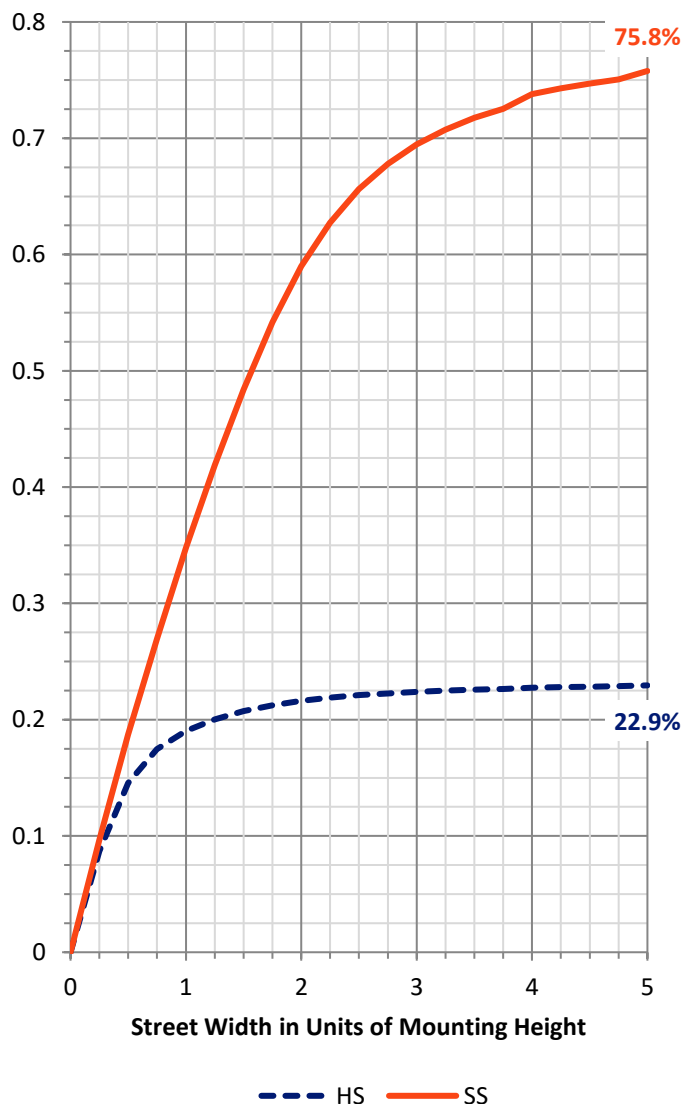
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4232.0	0.0	4232.0
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	14007.0	0.0	14007.0
	% Fixture	76.8	0.0	76.8
Total	Lumens	18239.0	0.0	18239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.1
10°-20°	606.3	3.3
20°-30°	1027.7	5.6
30°-40°	1574.9	8.6
40°-50°	2595.0	14.2
50°-60°	3708.9	20.3
60°-70°	4620.4	25.3
70°-80°	3292.5	18.1
80°-90°	616.8	3.4
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°	18239.0	100.0
0°-180°	18239.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553557

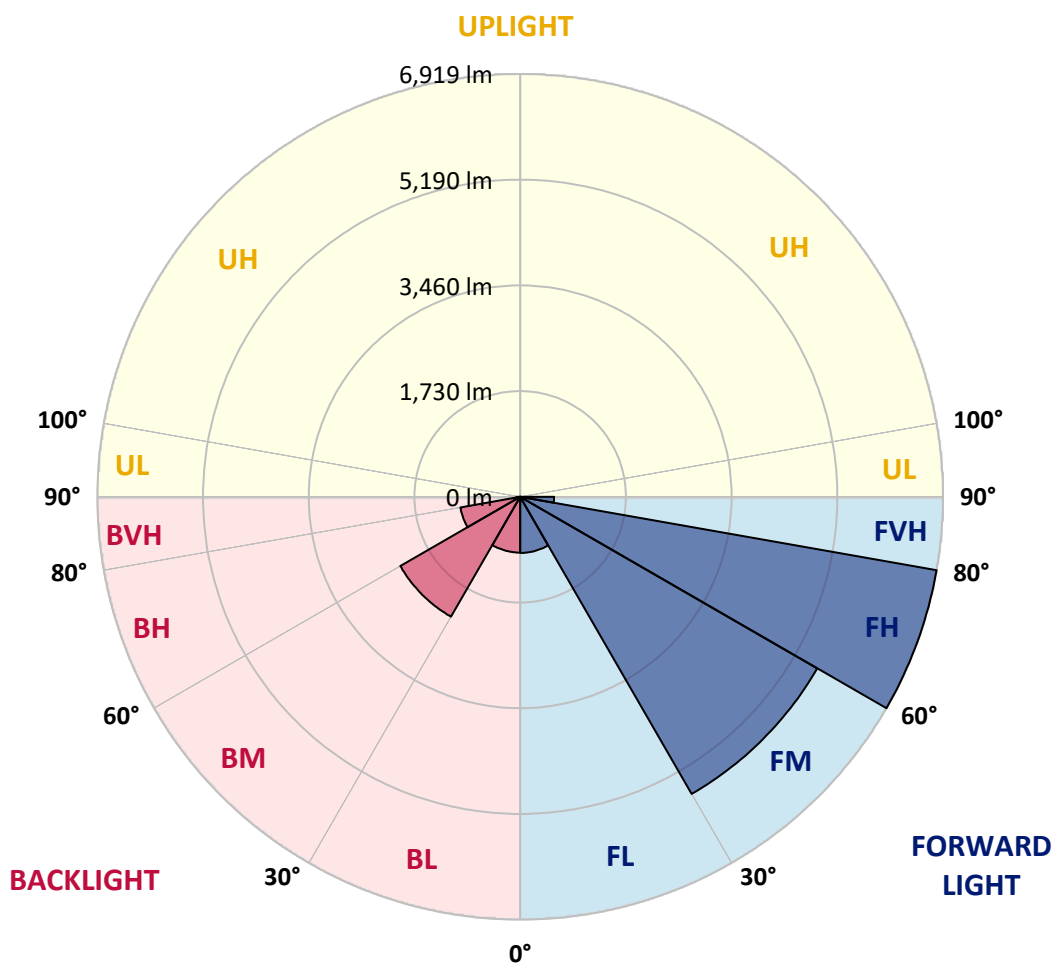
CATALOG NUMBER: VERD-G-CA2-150-727-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.1	5.0			
FM	(30°-60°)	5613.5	30.8			
FH	(60°-80°)	6919.4	37.9			G3/7500
FVH	(80°-90°)	556.0	3.0			G4/750
BL	(0°-30°)	912.6	5.0	B2/1000		
BM	(30°-60°)	2265.2	12.4	B2/2500		
BH	(60°-80°)	993.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	60.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P553557

CATALOG NUMBER: VERD-G-CA2-150-727-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4
2.5°	2064.0	2072.4	2056.7	2054.3	2044.6	2032.4	2034.9	2025.2	2013.1	2017.9	2020.3
5°	2076.1	2076.1	2064.0	2051.8	2047.0	2044.6	2047.0	2036.1	2033.7	2042.1	2034.9
7.5°	2065.2	2072.4	2051.8	2051.8	2043.4	2057.9	2059.1	2045.8	2055.5	2055.5	2054.3
10°	2062.7	2065.2	2056.7	2039.7	2038.5	2047.0	2064.0	2068.8	2073.7	2072.4	2077.3
12.5°	2034.9	2032.4	2015.5	2020.3	2043.4	2051.8	2080.9	2094.3	2112.4	2117.3	2119.7
15°	1999.7	2009.4	2010.6	2025.2	2049.4	2062.7	2091.8	2118.5	2158.5	2168.2	2167.0
17.5°	2003.4	2007.0	2013.1	2021.5	2059.1	2065.2	2112.4	2141.5	2191.2	2225.2	2242.1
20°	2026.4	2019.1	2031.2	2053.1	2073.7	2078.5	2128.2	2173.0	2240.9	2285.7	2305.1
22.5°	2065.2	2066.4	2072.4	2072.4	2087.0	2108.8	2154.9	2190.0	2273.6	2336.7	2370.6
25°	2101.5	2104.0	2111.2	2108.8	2133.0	2142.7	2186.4	2239.7	2335.4	2409.4	2474.8
27.5°	2156.1	2163.3	2158.5	2159.7	2207.0	2216.7	2236.1	2307.6	2405.7	2505.1	2621.5
30°	2257.9	2257.9	2253.0	2257.9	2308.8	2333.0	2339.1	2409.4	2489.4	2609.3	2785.1
32.5°	2404.5	2405.7	2375.4	2399.7	2456.6	2499.1	2517.2	2628.7	2718.4	2776.6	3003.2
35°	2718.4	2705.1	2673.6	2603.3	2639.6	2691.8	2749.9	2891.7	3089.3	3306.2	3534.1
37.5°	3199.6	3198.4	3086.9	2946.3	2883.2	2909.9	2991.1	3203.2	3512.2	4054.0	4255.2
40°	3734.0	3747.4	3586.2	3410.4	3225.0	3227.4	3248.0	3513.5	3960.7	4743.6	4849.0
42.5°	4267.3	4245.5	4067.3	3898.9	3646.8	3631.0	3576.5	3827.4	4429.7	5295.0	5309.6
45°	4742.4	4731.5	4533.9	4363.0	4125.5	4064.9	4003.1	4163.1	4876.9	5741.0	5645.3
47.5°	5188.4	5202.9	4930.2	4776.3	4541.2	4510.9	4439.4	4541.2	5319.3	6091.3	5918.0
50°	5696.2	5702.3	5376.2	5186.0	4953.3	4914.5	4886.6	5016.3	5776.2	6425.8	6195.5
52.5°	6264.6	6145.8	5828.3	5566.5	5343.5	5314.4	5298.7	5434.4	6276.7	6719.1	6378.5
55°	6979.7	6820.9	6496.1	6062.2	5737.4	5742.2	5687.7	5846.5	6698.5	6921.5	6556.7
57.5°	7292.3	7328.7	7268.1	6873.0	6303.4	6233.1	6098.6	6221.0	7099.6	7159.0	6697.3
60°	7881.3	8021.9	7891.0	7670.5	7502.0	7317.8	6660.9	6707.0	7465.6	7422.0	6713.0
62.5°	7921.3	7969.8	8383.1	8418.2	8581.9	8643.7	8099.5	7258.4	7797.7	7554.1	6766.3
65°	7528.7	7583.2	8081.3	8518.8	9419.3	9504.2	9332.1	8268.0	8066.8	7625.6	6723.9
67.5°	6519.1	6564.0	7129.9	8043.7	9791.4	9913.8	9746.5	9353.9	8161.3	7601.4	6537.3
70°	5576.2	5601.7	6071.9	7350.5	9535.7	9679.9	9613.2	9395.1	8157.7	7458.4	6125.2
72.5°	4380.0	4453.9	4833.3	6096.1	8889.7	9010.9	9030.3	9141.8	7950.4	6988.1	5204.1
75°	3176.5	3216.5	3646.8	4736.3	7672.9	7962.5	8303.1	8723.7	7171.1	5932.5	3848.0
77.5°	2238.5	2277.3	2682.1	3591.0	6210.1	6539.7	7155.4	7402.6	5818.6	4446.7	2025.2
80°	1473.7	1468.9	1854.3	2657.8	4660.0	4891.5	5348.4	5017.5	3376.5	1933.1	220.6
82.5°	865.3	913.8	1187.7	1826.4	3256.5	3385.0	3372.9	2642.1	1340.4	200.0	112.7
85°	499.3	517.5	700.5	1082.3	1794.9	1813.1	1624.0	1025.3	332.1	89.7	66.7
87.5°	223.0	214.5	278.7	357.5	327.2	243.6	151.5	42.4	25.5	17.0	10.9
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: P553557
 CATALOG NUMBER: VERD-G-CA2-150-727-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4	2026.4
2.5°	2010.6	2004.6	2034.9	2017.9	2032.4	2024.0	2016.7	2026.4	2044.6	2060.3	2050.6
5°	2026.4	2030.0	2054.3	2033.7	2053.1	2049.4	2039.7	2050.6	2079.7	2094.3	2093.0
7.5°	2044.6	2047.0	2072.4	2064.0	2072.4	2065.2	2080.9	2073.7	2099.1	2108.8	2102.7
10°	2066.4	2070.0	2093.0	2094.3	2097.9	2093.0	2100.3	2104.0	2118.5	2137.9	2125.8
12.5°	2113.7	2122.1	2139.1	2157.3	2154.9	2135.5	2141.5	2122.1	2135.5	2141.5	2151.2
15°	2179.1	2199.7	2209.4	2234.8	2211.8	2200.9	2177.9	2139.1	2127.0	2120.9	2111.2
17.5°	2249.4	2268.8	2287.0	2319.7	2282.1	2253.0	2213.0	2140.3	2085.8	2066.4	2057.9
20°	2328.2	2346.3	2379.1	2400.9	2345.1	2282.1	2217.9	2111.2	2003.4	1929.4	1937.9
22.5°	2416.6	2456.6	2478.4	2472.4	2393.6	2307.6	2197.3	2034.9	1896.7	1786.4	1779.2
25°	2539.0	2562.1	2570.6	2514.8	2420.3	2289.4	2128.2	1944.0	1751.3	1627.7	1609.5
27.5°	2667.5	2691.8	2646.9	2542.7	2411.8	2247.0	2050.6	1788.8	1582.8	1464.0	1450.7
30°	2832.3	2826.3	2699.0	2534.2	2363.3	2145.2	1908.8	1630.1	1439.8	1329.5	1323.5
32.5°	3011.7	2966.9	2741.4	2493.0	2271.2	2011.8	1728.2	1479.8	1333.2	1222.9	1218.0
35°	3435.9	3229.9	2803.3	2440.9	2135.5	1827.6	1561.0	1367.1	1248.3	1123.5	1099.2
37.5°	4058.8	3726.8	2930.5	2387.6	1980.3	1645.8	1421.6	1283.5	1170.7	1037.4	1014.4
40°	4639.4	4232.1	3153.5	2347.6	1841.0	1499.2	1325.9	1225.3	1116.2	982.9	953.8
42.5°	5051.4	4624.8	3421.4	2282.1	1701.6	1382.8	1285.9	1203.5	1101.7	978.0	955.0
45°	5383.5	4964.2	3686.8	2208.2	1538.0	1283.5	1244.7	1185.3	1083.5	963.5	936.8
47.5°	5617.4	5177.5	3871.0	2124.6	1381.6	1222.9	1209.5	1156.2	1055.6	942.9	925.9
50°	5858.6	5416.2	3997.0	2038.5	1241.0	1176.8	1161.1	1090.8	998.7	898.1	879.9
52.5°	6016.1	5532.6	4069.7	2021.5	1121.1	1113.8	1094.4	1027.7	940.5	831.4	809.6
55°	6136.1	5635.6	4058.8	1922.2	1013.2	1031.4	1019.3	969.6	893.2	786.6	772.0
57.5°	6165.2	5651.3	3959.5	1614.3	911.4	921.1	927.1	936.8	862.9	774.4	750.2
60°	6248.8	5577.4	3783.7	1161.1	791.4	815.6	864.1	872.6	821.7	721.1	706.6
62.5°	6195.5	5527.7	3402.0	818.1	706.6	756.3	802.3	802.3	732.0	638.7	629.0
65°	6102.2	5331.4	2661.5	644.8	661.7	712.6	755.0	726.0	665.4	578.1	572.0
67.5°	5864.7	4852.7	1588.9	580.5	630.2	678.7	709.0	665.4	608.4	522.4	512.7
70°	5182.3	3867.4	604.8	550.2	598.7	632.6	652.0	607.2	551.4	465.4	456.9
72.5°	4114.6	2419.1	384.2	512.7	558.7	589.0	601.1	549.0	460.5	362.4	352.7
75°	2476.0	690.8	333.3	443.6	492.1	544.2	523.6	455.7	389.0	304.2	298.1
77.5°	626.6	209.7	296.9	357.5	399.9	461.8	460.5	410.9	339.3	248.5	238.8
80°	150.3	146.6	241.2	264.2	301.8	353.9	349.0	341.8	269.1	172.1	141.8
82.5°	95.7	101.8	163.6	147.9	172.1	206.0	233.9	220.6	201.2	105.4	94.5
85°	64.2	81.2	80.0	55.7	77.6	116.3	151.5	138.2	113.9	65.4	58.2
87.5°	9.7	10.9	14.5	21.8	33.9	57.0	75.1	73.9	55.7	41.2	38.8
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)