

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: P509521

Luminaire Tested: **VERD-G-CA2-110-750-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
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-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16659 lumens
Efficiency: N/A
Efficacy: 147.2 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

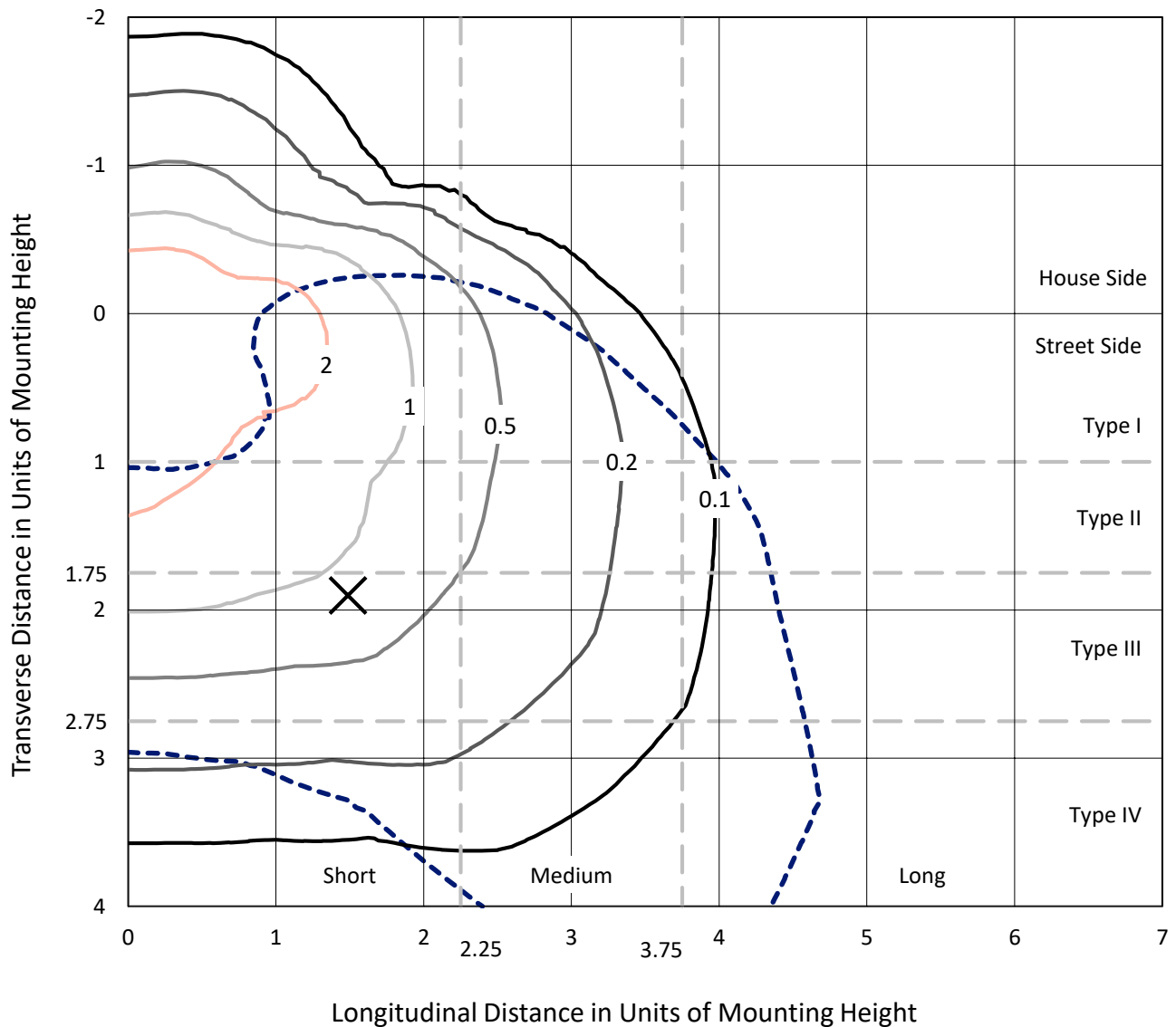
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

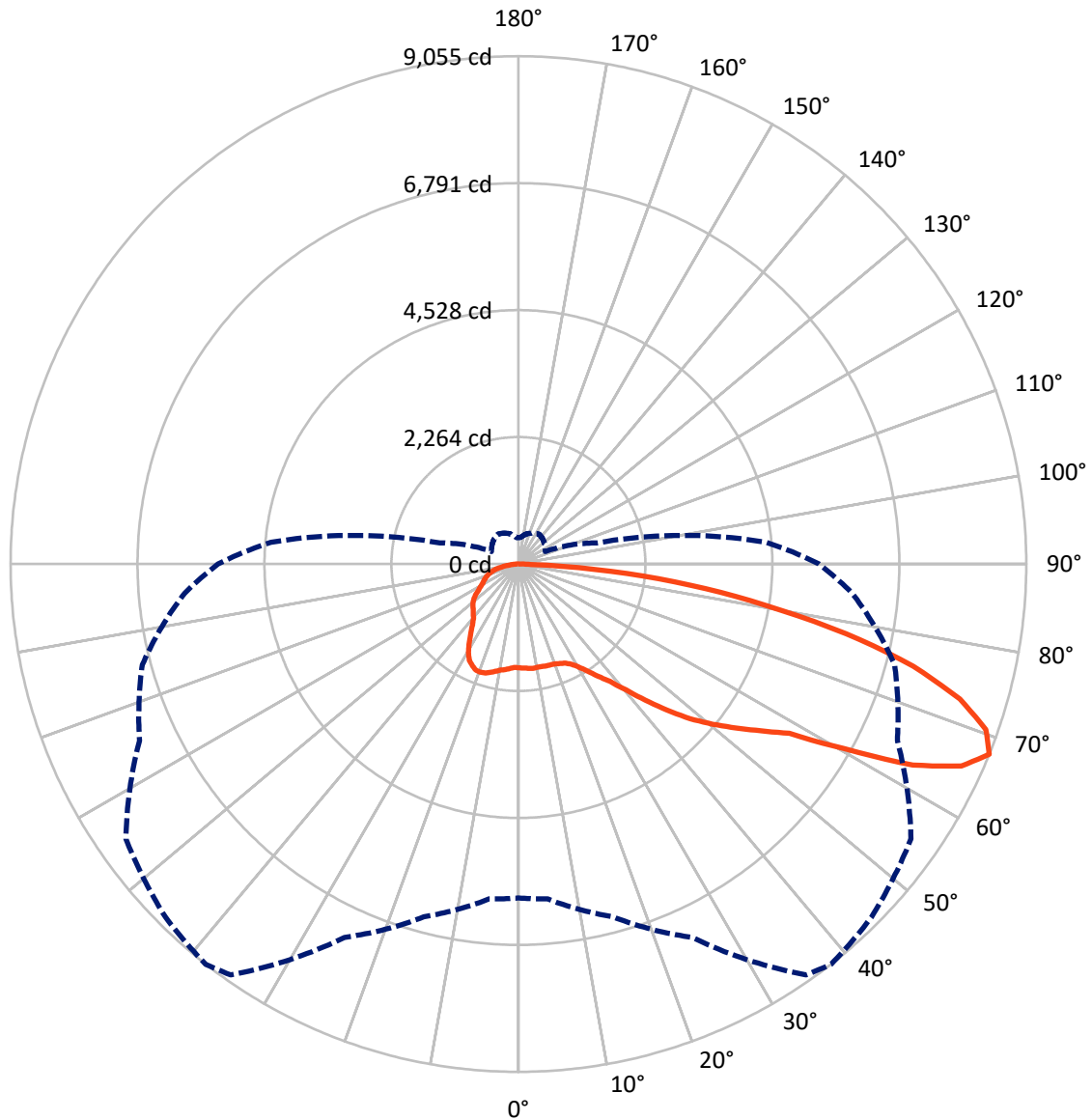
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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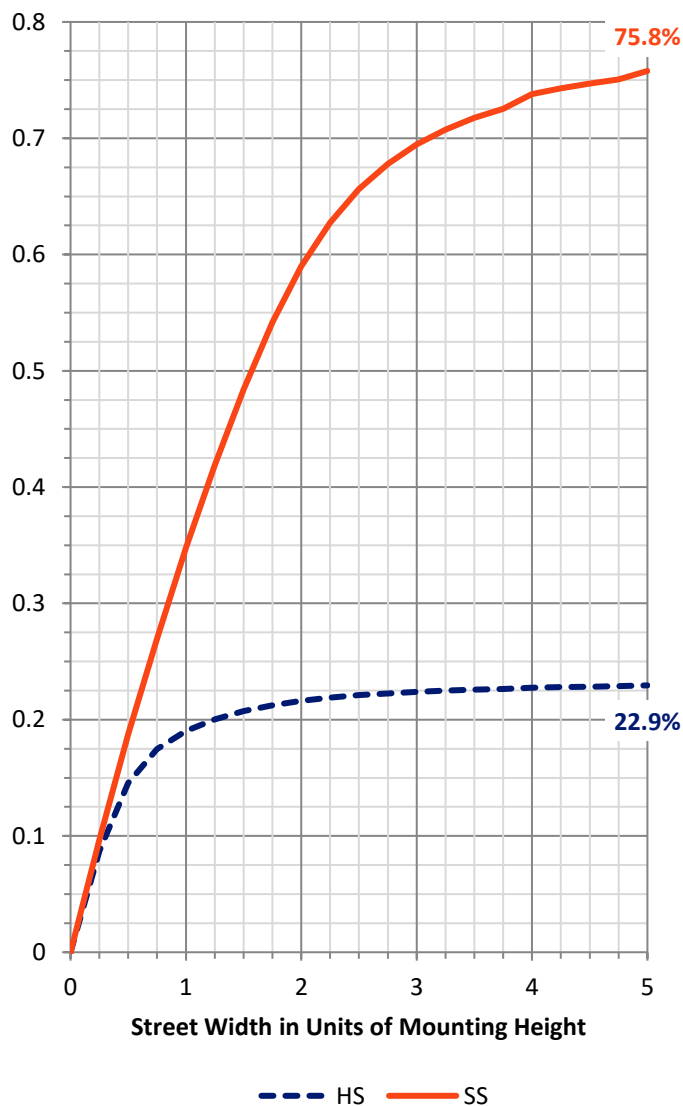
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.4	0.0	3865.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	12793.6	0.0	12793.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	16659.0	0.0	16659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.1
10°-20°	553.8	3.3
20°-30°	938.7	5.6
30°-40°	1438.4	8.6
40°-50°	2370.2	14.2
50°-60°	3387.6	20.3
60°-70°	4220.1	25.3
70°-80°	3007.3	18.1
80°-90°	563.3	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°	16659.0	100.0
0°-180°	16659.0	100.0

Coefficient of Utilization



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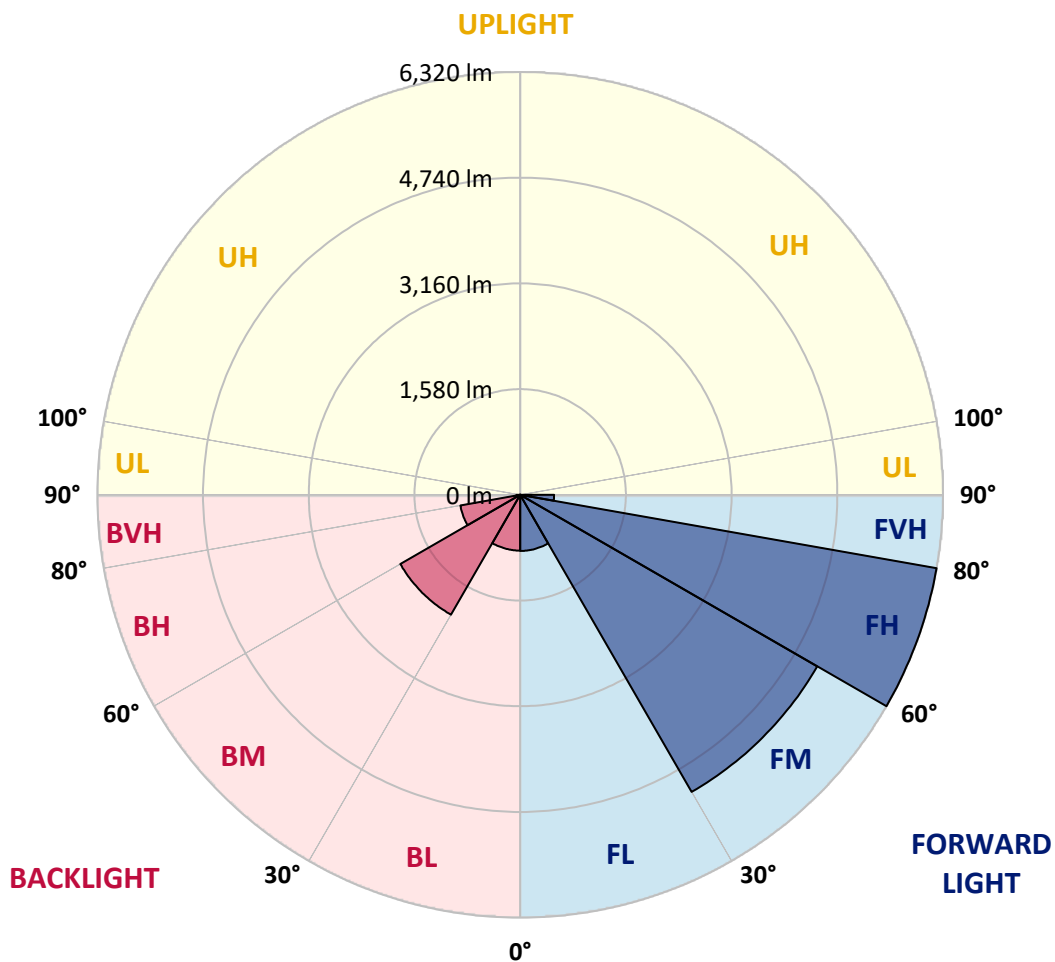
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	838.5	5.0			
FM	(30°-60°)	5127.2	30.8			
FH	(60°-80°)	6320.0	37.9			G3/7500
FVH	(80°-90°)	507.8	3.0			G4/750
BL	(0°-30°)	833.5	5.0	B2/1000		
BM	(30°-60°)	2069.0	12.4	B2/2500		
BH	(60°-80°)	907.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	55.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1885.2	1892.9	1878.5	1876.3	1867.5	1856.4	1858.6	1849.7	1838.7	1843.1	1845.3
5°	1896.2	1896.2	1885.2	1874.1	1869.7	1867.5	1869.7	1859.7	1857.5	1865.2	1858.6
7.5°	1886.3	1892.9	1874.1	1874.1	1866.3	1879.6	1880.7	1868.6	1877.4	1877.4	1876.3
10°	1884.1	1886.3	1878.5	1863.0	1861.9	1869.7	1885.2	1889.6	1894.0	1892.9	1897.3
12.5°	1858.6	1856.4	1840.9	1845.3	1866.3	1874.1	1900.7	1912.8	1929.4	1933.9	1936.1
15°	1826.5	1835.4	1836.5	1849.7	1871.9	1884.1	1910.6	1935.0	1971.5	1980.4	1979.3
17.5°	1829.8	1833.1	1838.7	1846.4	1880.7	1886.3	1929.4	1956.0	2001.4	2032.4	2047.9
20°	1850.8	1844.2	1855.3	1875.2	1894.0	1898.4	1943.8	1984.8	2046.8	2087.7	2105.5
22.5°	1886.3	1887.4	1892.9	1892.9	1906.2	1926.1	1968.2	2000.3	2076.7	2134.2	2165.2
25°	1919.5	1921.7	1928.3	1926.1	1948.3	1957.1	1997.0	2045.7	2133.1	2200.7	2260.4
27.5°	1969.3	1975.9	1971.5	1972.6	2015.8	2024.6	2042.4	2107.7	2197.3	2288.1	2394.4
30°	2062.3	2062.3	2057.9	2062.3	2108.8	2130.9	2136.4	2200.7	2273.7	2383.3	2543.8
32.5°	2196.2	2197.3	2169.7	2191.8	2243.8	2282.6	2299.2	2401.0	2482.9	2536.1	2743.1
35°	2482.9	2470.8	2442.0	2377.8	2411.0	2458.6	2511.7	2641.2	2821.7	3019.8	3227.9
37.5°	2922.4	2921.3	2819.4	2691.0	2633.5	2657.8	2732.0	2925.7	3208.0	3702.8	3886.6
40°	3410.6	3422.7	3275.5	3115.0	2945.6	2947.9	2966.7	3209.1	3617.6	4332.7	4429.0
42.5°	3897.6	3877.7	3715.0	3561.1	3330.9	3316.5	3266.7	3495.8	4046.0	4836.3	4849.6
45°	4331.6	4321.6	4141.2	3985.1	3768.1	3712.8	3656.3	3802.4	4454.4	5243.7	5156.3
47.5°	4738.9	4752.2	4503.1	4362.6	4147.8	4120.1	4054.8	4147.8	4858.5	5563.6	5405.3
50°	5202.7	5208.3	4910.5	4736.7	4524.2	4488.8	4463.3	4581.7	5275.8	5869.1	5658.8
52.5°	5721.9	5613.4	5323.4	5084.3	4880.6	4854.1	4839.7	4963.6	5733.0	6137.0	5826.0
55°	6375.0	6230.0	5933.3	5537.0	5240.4	5244.8	5195.0	5340.0	6118.2	6321.9	5988.7
57.5°	6660.6	6693.8	6638.5	6277.6	5757.3	5693.1	5570.3	5682.1	6484.6	6538.9	6117.1
60°	7198.6	7327.0	7207.5	7006.0	6852.1	6683.9	6083.9	6126.0	6818.9	6779.1	6131.5
62.5°	7235.1	7279.4	7656.9	7689.0	7838.4	7894.9	7397.9	6629.6	7122.2	6899.7	6180.2
65°	6876.5	6926.3	7381.3	7780.9	8603.3	8680.8	8523.6	7551.7	7368.0	6965.0	6141.5
67.5°	5954.4	5995.3	6512.3	7346.9	8943.2	9055.0	8902.2	8543.6	7454.3	6942.9	5971.0
70°	5093.2	5116.4	5545.9	6713.8	8709.6	8841.3	8780.5	8581.2	7451.0	6812.3	5594.6
72.5°	4000.6	4068.1	4414.6	5568.0	8119.6	8230.3	8248.0	8349.9	7261.7	6382.8	4753.3
75°	2901.4	2937.9	3330.9	4326.0	7008.2	7272.8	7583.8	7967.9	6549.9	5418.6	3514.6
77.5°	2044.6	2080.0	2449.7	3279.9	5672.1	5973.2	6535.5	6761.4	5314.5	4061.5	1849.7
80°	1346.1	1341.6	1693.7	2427.6	4256.3	4467.7	4885.0	4582.8	3084.0	1765.6	201.5
82.5°	790.4	834.7	1084.8	1668.2	2974.4	3091.8	3080.7	2413.2	1224.3	182.6	102.9
85°	456.1	472.7	639.8	988.5	1639.4	1656.0	1483.3	936.5	303.3	81.9	60.9
87.5°	203.7	195.9	254.6	326.6	298.9	222.5	138.4	38.7	23.2	15.5	10.0
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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1836.5	1830.9	1858.6	1843.1	1856.4	1848.6	1842.0	1850.8	1867.5	1881.8	1873.0
5°	1850.8	1854.2	1876.3	1857.5	1875.2	1871.9	1863.0	1873.0	1899.6	1912.8	1911.7
7.5°	1867.5	1869.7	1892.9	1885.2	1892.9	1886.3	1900.7	1894.0	1917.3	1926.1	1920.6
10°	1887.4	1890.7	1911.7	1912.8	1916.2	1911.7	1918.4	1921.7	1935.0	1952.7	1941.6
12.5°	1930.6	1938.3	1953.8	1970.4	1968.2	1950.5	1956.0	1938.3	1950.5	1956.0	1964.9
15°	1990.3	2009.1	2018.0	2041.2	2020.2	2010.3	1989.2	1953.8	1942.7	1937.2	1928.3
17.5°	2054.5	2072.2	2088.8	2118.7	2084.4	2057.9	2021.3	1954.9	1905.1	1887.4	1879.6
20°	2126.5	2143.1	2173.0	2192.9	2142.0	2084.4	2025.7	1928.3	1829.8	1762.3	1770.0
22.5°	2207.3	2243.8	2263.7	2258.2	2186.3	2107.7	2006.9	1858.6	1732.4	1631.7	1625.0
25°	2319.1	2340.1	2347.9	2297.0	2210.6	2091.1	1943.8	1775.6	1599.6	1486.7	1470.1
27.5°	2436.4	2458.6	2417.6	2322.4	2202.9	2052.3	1873.0	1633.9	1445.7	1337.2	1325.0
30°	2587.0	2581.4	2465.2	2314.7	2158.6	1959.3	1743.5	1488.9	1315.1	1214.3	1208.8
32.5°	2750.8	2709.9	2504.0	2277.0	2074.5	1837.6	1578.5	1351.6	1217.7	1116.9	1112.5
35°	3138.3	2950.1	2560.4	2229.4	1950.5	1669.3	1425.8	1248.7	1140.2	1026.2	1004.0
37.5°	3707.2	3403.9	2676.6	2180.7	1808.8	1503.3	1298.5	1172.3	1069.3	947.6	926.5
40°	4237.5	3865.5	2880.3	2144.2	1681.5	1369.3	1211.0	1119.1	1019.5	897.8	871.2
42.5°	4613.8	4224.2	3125.0	2084.4	1554.2	1263.0	1174.5	1099.2	1006.2	893.3	872.3
45°	4917.1	4534.1	3367.4	2016.9	1404.7	1172.3	1136.9	1082.6	989.6	880.0	855.7
47.5°	5130.8	4729.0	3535.7	1940.5	1261.9	1116.9	1104.8	1056.0	964.2	861.2	845.7
50°	5351.1	4947.0	3650.8	1861.9	1133.5	1074.9	1060.5	996.3	912.1	820.3	803.7
52.5°	5495.0	5053.3	3717.2	1846.4	1023.9	1017.3	999.6	938.7	859.0	759.4	739.5
55°	5604.6	5147.4	3707.2	1755.6	925.4	942.0	931.0	885.6	815.8	718.4	705.1
57.5°	5631.1	5161.8	3616.5	1474.5	832.4	841.3	846.8	855.7	788.2	707.4	685.2
60°	5707.5	5094.3	3456.0	1060.5	722.8	745.0	789.3	797.0	750.5	658.6	645.4
62.5°	5658.8	5048.9	3107.3	747.2	645.4	690.7	732.8	732.8	668.6	583.4	574.5
65°	5573.6	4869.5	2430.9	588.9	604.4	650.9	689.6	663.1	607.7	528.0	522.5
67.5°	5356.6	4432.3	1451.2	530.2	575.6	619.9	647.6	607.7	555.7	477.1	468.2
70°	4733.4	3532.3	552.4	502.6	546.8	577.8	595.5	554.6	503.7	425.1	417.3
72.5°	3758.2	2209.5	350.9	468.2	510.3	538.0	549.1	501.5	420.6	331.0	322.1
75°	2261.5	631.0	304.4	405.1	449.4	497.0	478.2	416.2	355.3	277.8	272.3
77.5°	572.3	191.5	271.2	326.6	365.3	421.8	420.6	375.3	310.0	226.9	218.1
80°	137.3	133.9	220.3	241.3	275.6	323.2	318.8	312.2	245.7	157.2	129.5
82.5°	87.5	93.0	149.4	135.0	157.2	188.2	213.6	201.5	183.8	96.3	86.3
85°	58.7	74.2	73.1	50.9	70.8	106.3	138.4	126.2	104.1	59.8	53.1
87.5°	8.9	10.0	13.3	19.9	31.0	52.0	68.6	67.5	50.9	37.6	35.4
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)