

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: P509102

Luminaire Tested: **VERD-CA2-110-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-722-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12272 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

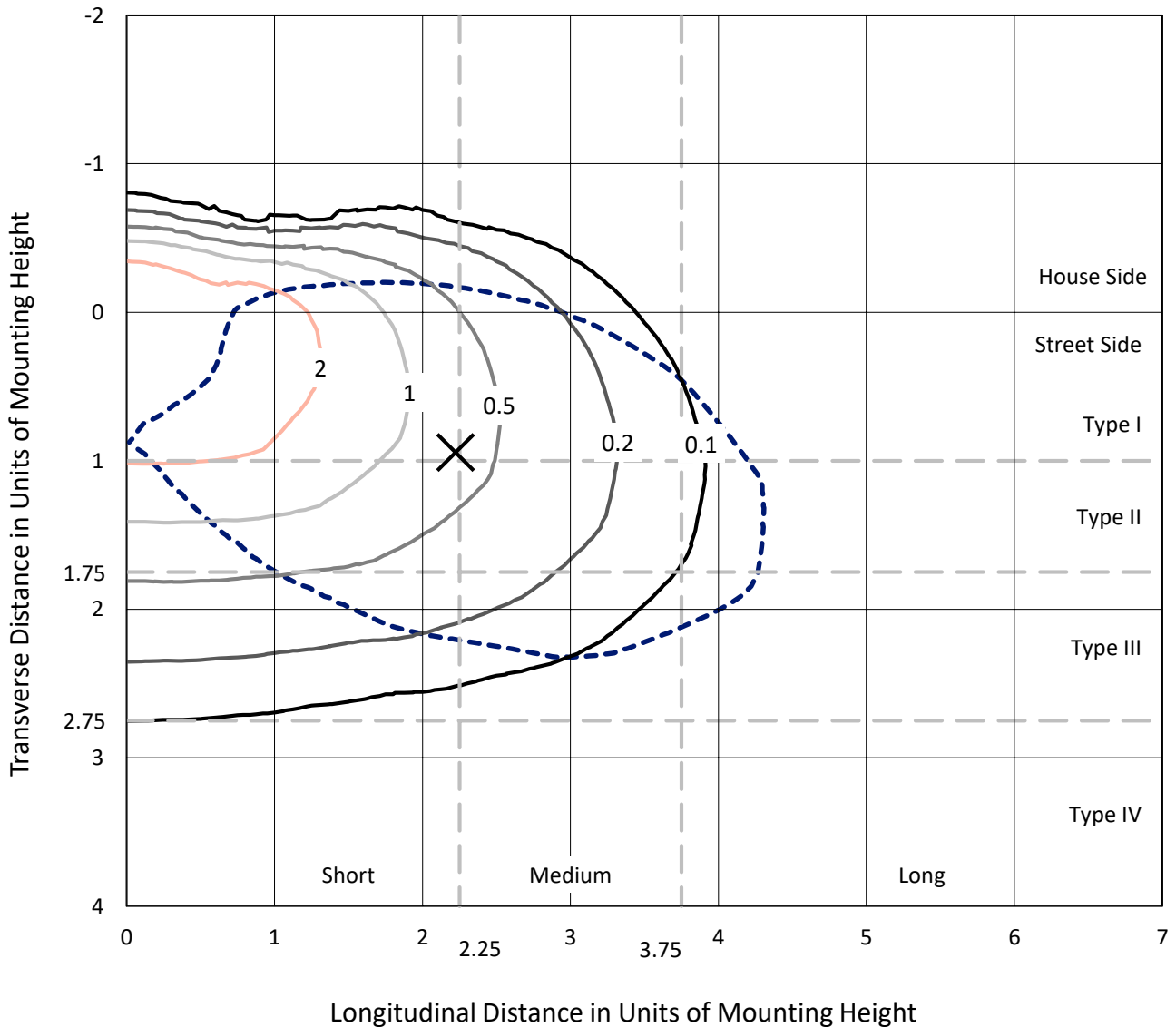
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

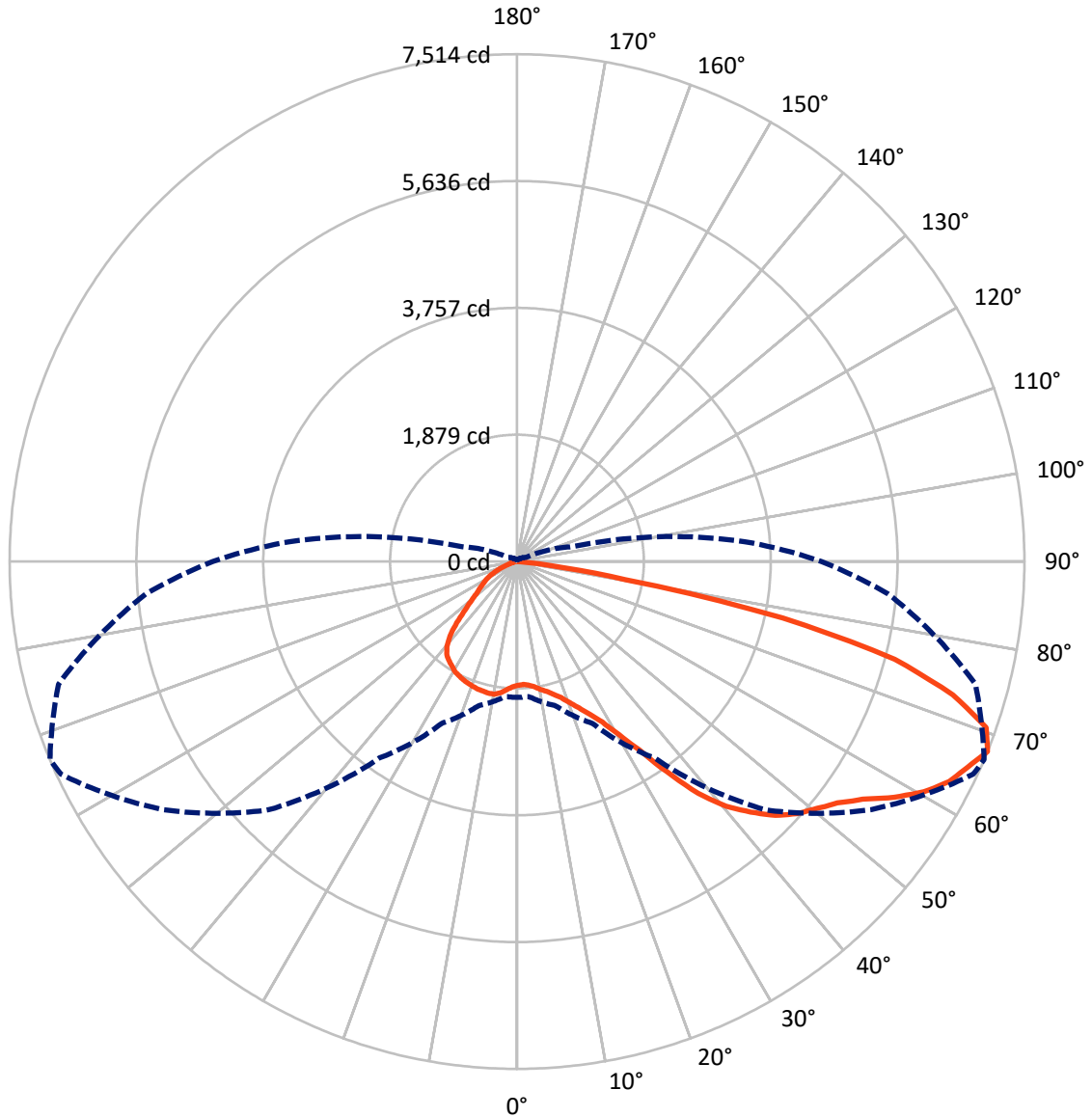
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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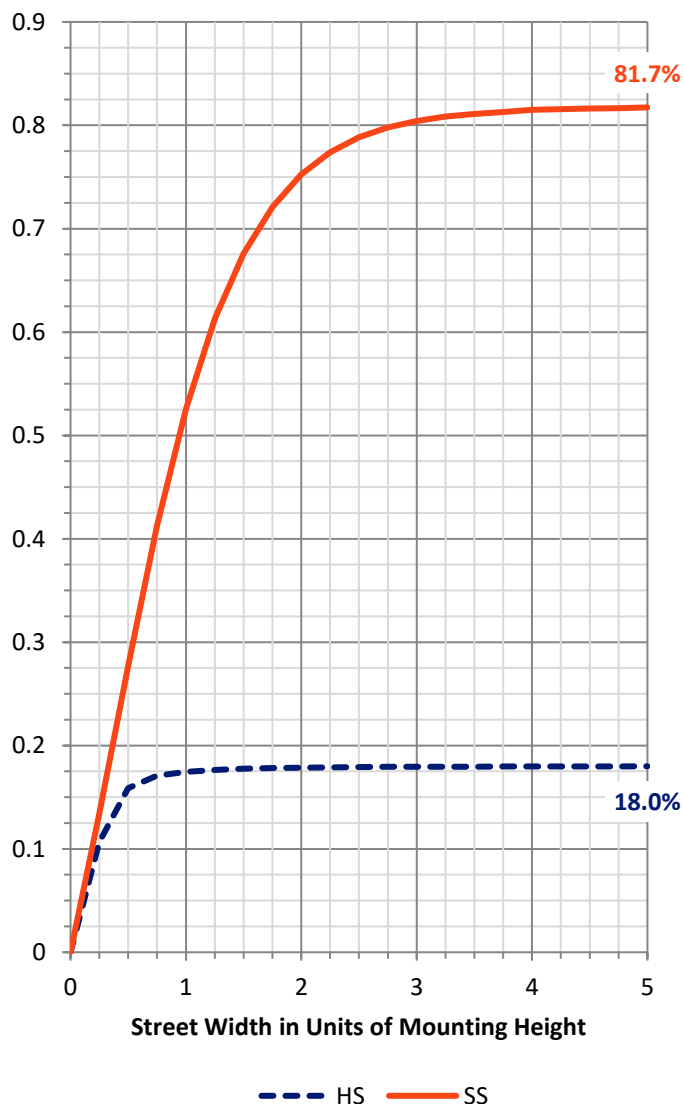
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2236.0	0.0	2236.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	10036.0	0.0	10036.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	12272.0	0.0	12272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.5
10°-20°	574.9	4.7
20°-30°	981.1	8.0
30°-40°	1527.1	12.4
40°-50°	2155.7	17.6
50°-60°	2596.3	21.2
60°-70°	2683.1	21.9
70°-80°	1478.1	12.0
80°-90°	92.1	0.8
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°	12272.0	100.0
0°-180°	12272.0	100.0

Coefficient of Utilization



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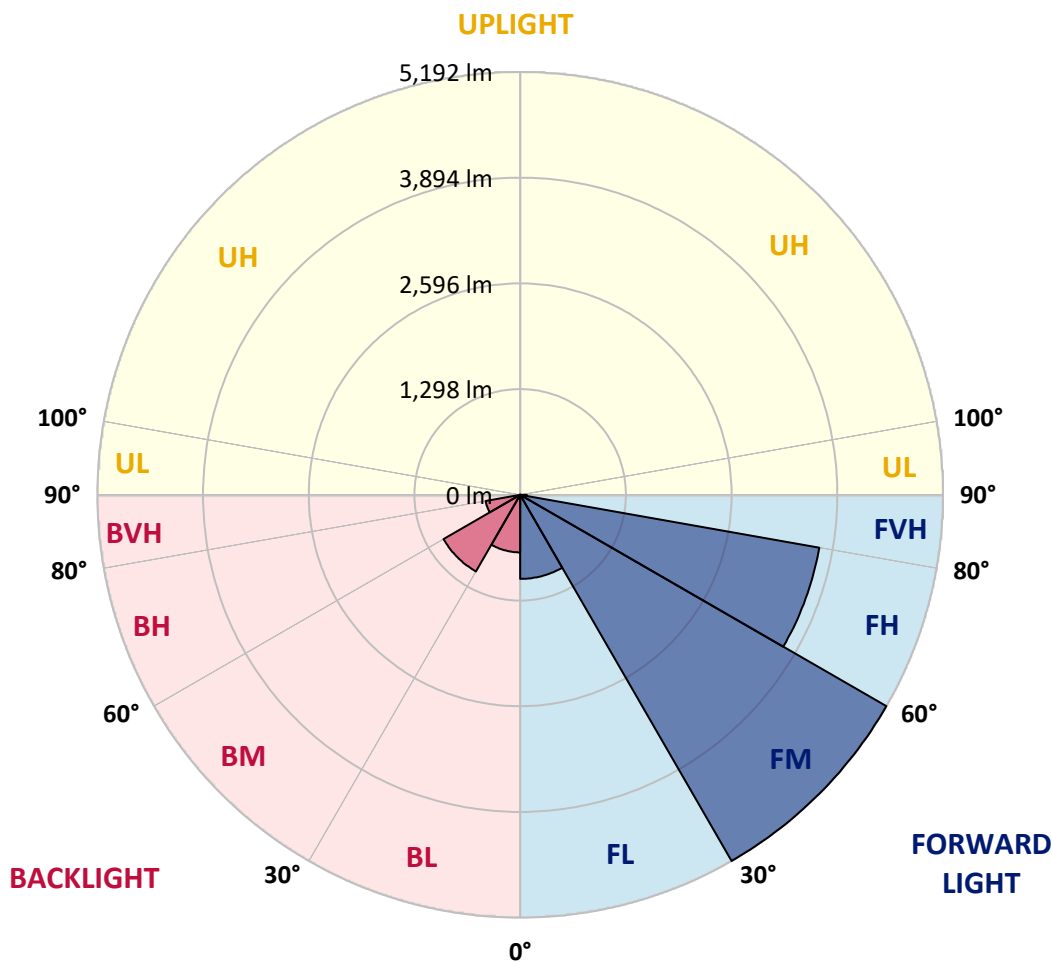
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.6	8.4			
FM (30°-60°)	5192.1	42.3			
FH (60°-80°)	3730.2	30.4			G2/5000
FVH (80°-90°)	81.0	0.7			G1/100
BL (0°-30°)	707.0	5.8	B2/1000		
BM (30°-60°)	1087.0	8.9	B2/2500		
BH (60°-80°)	431.0	3.5	B1/500		G1/500
BVH (80°-90°)	11.1	0.1			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°	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3
2.5°	1815.3	1833.8	1833.8	1828.1	1830.9	1818.1	1809.6	1819.6	1822.4	1830.9	1842.3
5°	1850.8	1872.1	1870.7	1860.8	1852.2	1840.9	1829.5	1838.0	1839.5	1842.3	1856.5
7.5°	1926.1	1946.0	1937.5	1927.5	1923.3	1897.7	1873.5	1872.1	1875.0	1883.5	1899.1
10°	2024.1	2039.7	2036.9	2021.3	2009.9	1971.6	1937.5	1924.7	1926.1	1928.9	1955.9
12.5°	2134.9	2156.2	2140.6	2119.3	2099.4	2044.0	1997.1	1978.7	1975.8	1982.9	2005.6
15°	2244.3	2267.0	2255.6	2242.9	2197.4	2136.3	2076.7	2046.8	2044.0	2044.0	2058.2
17.5°	2387.7	2396.3	2389.2	2370.7	2319.6	2242.9	2171.8	2127.8	2120.7	2125.0	2127.8
20°	2546.8	2562.4	2553.9	2534.0	2460.2	2377.8	2288.3	2235.7	2231.5	2235.7	2208.8
22.5°	2740.0	2745.7	2741.4	2708.8	2642.0	2532.6	2414.7	2355.1	2355.1	2359.3	2303.9
25°	2904.8	2938.9	2928.9	2889.1	2811.0	2715.9	2573.8	2499.9	2504.2	2507.1	2430.3
27.5°	3096.5	3124.9	3117.8	3088.0	3036.9	2916.1	2745.7	2697.4	2693.1	2688.9	2569.5
30°	3279.8	3301.1	3315.3	3308.2	3267.0	3153.3	3001.4	2965.8	2977.2	2968.7	2762.7
32.5°	3428.9	3465.8	3505.6	3514.1	3502.8	3401.9	3291.1	3309.6	3323.8	3424.6	3301.1
35°	3556.7	3596.5	3661.9	3730.0	3742.8	3703.0	3647.7	3782.6	3823.8	4029.7	3899.1
37.5°	3690.3	3724.4	3789.7	3897.6	3968.7	3990.0	4044.0	4257.0	4356.4	4534.0	4291.1
40°	3751.3	3785.4	3899.1	4035.4	4183.2	4302.5	4410.4	4657.6	4768.4	4822.3	4507.0
42.5°	3690.3	3722.9	3906.2	4163.3	4363.5	4627.7	4749.9	4997.1	5070.9	5065.2	4772.6
45°	3630.6	3661.9	3853.6	4195.9	4526.9	4927.5	5031.1	5308.1	5362.1	5293.9	4926.0
47.5°	3553.9	3596.5	3795.4	4176.1	4673.2	5198.8	5293.9	5529.7	5578.0	5477.2	5102.2
50°	3460.2	3497.1	3728.6	4144.8	4769.8	5401.9	5502.7	5737.1	5749.9	5656.1	5261.3
52.5°	3352.2	3372.1	3623.5	4082.3	4853.6	5551.0	5666.1	5911.8	5941.6	5916.1	5450.2
55°	3191.7	3227.2	3497.1	3984.3	4859.3	5629.1	5792.5	6159.0	6212.9	6153.3	5565.2
57.5°	3022.7	3061.0	3340.8	3847.9	4775.5	5678.9	6022.6	6480.0	6586.5	6394.8	5659.0
60°	2836.6	2870.7	3146.2	3646.2	4626.3	5749.9	6259.8	6856.4	6923.2	6600.7	5721.5
62.5°	2620.7	2647.7	2910.5	3401.9	4397.6	5731.4	6464.4	7158.9	7180.3	6785.4	5715.8
65°	2357.9	2356.5	2600.8	3061.0	4022.6	5583.7	6501.3	7310.9	7336.5	6904.7	5664.7
67.5°	2011.3	2007.1	2211.6	2644.8	3549.6	5198.8	6403.3	7453.0	7514.1	7029.7	5515.5
70°	1576.7	1582.4	1737.2	2123.5	2880.6	4612.1	6144.8	7357.8	7370.6	6789.6	5129.2
72.5°	1115.0	1112.2	1217.3	1478.7	2129.2	3600.8	5400.5	6708.7	6748.4	6195.9	4468.7
75°	511.4	532.7	795.4	903.4	1285.5	2451.7	4443.1	5700.2	5776.9	5333.7	3484.3
77.5°	95.2	98.0	170.5	343.7	502.8	884.9	2654.8	3860.7	4021.2	3634.9	1963.0
80°	75.3	76.7	100.9	164.8	210.2	397.7	873.6	1590.9	1626.4	1417.6	707.4
82.5°	55.4	56.8	75.3	106.5	98.0	171.9	363.6	463.1	491.5	457.4	281.2
85°	32.7	34.1	44.0	52.6	51.1	68.2	61.1	55.4	49.7	41.2	35.5
87.5°	8.5	11.4	18.5	18.5	14.2	12.8	11.4	9.9	11.4	9.9	9.9
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°	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3
2.5°	1845.1	1843.7	1848.0	1859.3	1869.3	1870.7	1884.9	1903.4	1894.8	1919.0	1910.5
5°	1865.0	1869.3	1884.9	1903.4	1920.4	1934.6	1955.9	1987.2	1977.2	2000.0	1991.4
7.5°	1910.5	1917.6	1941.7	1960.2	1980.1	1975.8	1994.3	2012.7	1990.0	2014.2	2002.8
10°	1964.4	1973.0	1987.2	1994.3	1988.6	1985.8	1981.5	1978.7	1948.8	1965.9	1958.8
12.5°	2012.7	2014.2	2009.9	1991.4	1978.7	1944.6	1928.9	1921.8	1876.4	1889.2	1880.6
15°	2059.6	2039.7	2018.4	1975.8	1940.3	1887.7	1853.7	1823.8	1781.2	1798.3	1781.2
17.5°	2110.8	2080.9	2025.5	1963.0	1890.6	1813.9	1758.5	1710.2	1646.3	1643.4	1637.8
20°	2176.1	2132.1	2042.6	1940.3	1836.6	1721.6	1633.5	1552.5	1455.9	1443.2	1417.6
22.5°	2258.5	2193.1	2068.1	1910.5	1769.9	1625.0	1475.8	1342.3	1220.1	1181.8	1167.6
25°	2353.6	2272.7	2082.3	1883.5	1705.9	1484.3	1281.2	1107.9	964.5	923.3	911.9
27.5°	2473.0	2373.5	2103.7	1843.7	1603.7	1312.5	1048.3	856.5	728.7	661.9	652.0
30°	2637.7	2485.7	2133.5	1803.9	1480.1	1110.8	812.5	589.5	468.7	429.0	421.9
32.5°	3086.6	2752.8	2166.1	1732.9	1316.7	886.3	539.8	376.4	295.4	262.8	259.9
35°	3656.2	3241.4	2285.5	1652.0	1119.3	615.0	335.2	224.4	180.4	167.6	167.6
37.5°	4024.1	3620.7	2484.3	1538.3	859.4	376.4	201.7	146.3	137.8	136.4	136.4
40°	4217.2	3788.3	2627.8	1382.1	575.3	218.7	142.0	126.4	123.6	120.7	120.7
42.5°	4463.0	3931.7	2751.4	1170.4	333.8	153.4	125.0	115.1	110.8	108.0	108.0
45°	4599.3	4088.0	2673.2	919.0	190.3	137.8	115.1	103.7	99.4	99.4	99.4
47.5°	4732.9	4237.1	2573.8	660.5	161.9	126.4	108.0	96.6	92.3	95.2	95.2
50°	4884.8	4338.0	2416.1	494.3	153.4	117.9	98.0	88.1	85.2	89.5	89.5
52.5°	5026.9	4347.9	2163.3	394.9	142.0	109.4	90.9	81.0	78.1	81.0	81.0
55°	5068.1	4316.7	2090.9	313.9	134.9	100.9	85.2	75.3	68.2	68.2	66.8
57.5°	5058.1	4255.6	1914.7	265.6	126.4	92.3	78.1	66.8	58.2	55.4	55.4
60°	5024.0	4170.4	1728.7	231.5	117.9	85.2	69.6	56.8	48.3	45.5	45.5
62.5°	4981.4	4009.9	1465.9	201.7	109.4	82.4	58.2	46.9	41.2	38.4	38.4
65°	4802.5	3759.9	1173.3	171.9	100.9	72.4	51.1	41.2	35.5	32.7	32.7
67.5°	4505.6	3379.2	848.0	146.3	93.7	61.1	45.5	35.5	29.8	28.4	27.0
70°	4062.4	2853.6	525.6	126.4	81.0	55.4	39.8	31.2	27.0	22.7	22.7
72.5°	3386.3	2234.3	275.6	99.4	63.9	46.9	35.5	28.4	22.7	19.9	18.5
75°	2380.6	1377.8	198.9	76.7	44.0	38.4	29.8	24.1	19.9	17.0	15.6
77.5°	1149.1	474.4	139.2	56.8	31.2	28.4	22.7	19.9	15.6	14.2	14.2
80°	420.4	269.9	99.4	41.2	25.6	22.7	17.0	15.6	12.8	11.4	11.4
82.5°	188.9	127.8	56.8	27.0	18.5	17.0	12.8	9.9	9.9	9.9	9.9
85°	31.2	27.0	18.5	12.8	9.9	8.5	8.5	7.1	7.1	7.1	7.1
87.5°	8.5	8.5	7.1	7.1	5.7	4.3	2.8	2.8	2.8	4.3	4.3
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)