

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: P509600

Luminaire Tested: **VERD-G-CA2-130-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-130-730-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16395 lumens
Efficiency: N/A
Efficacy: 122.4 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

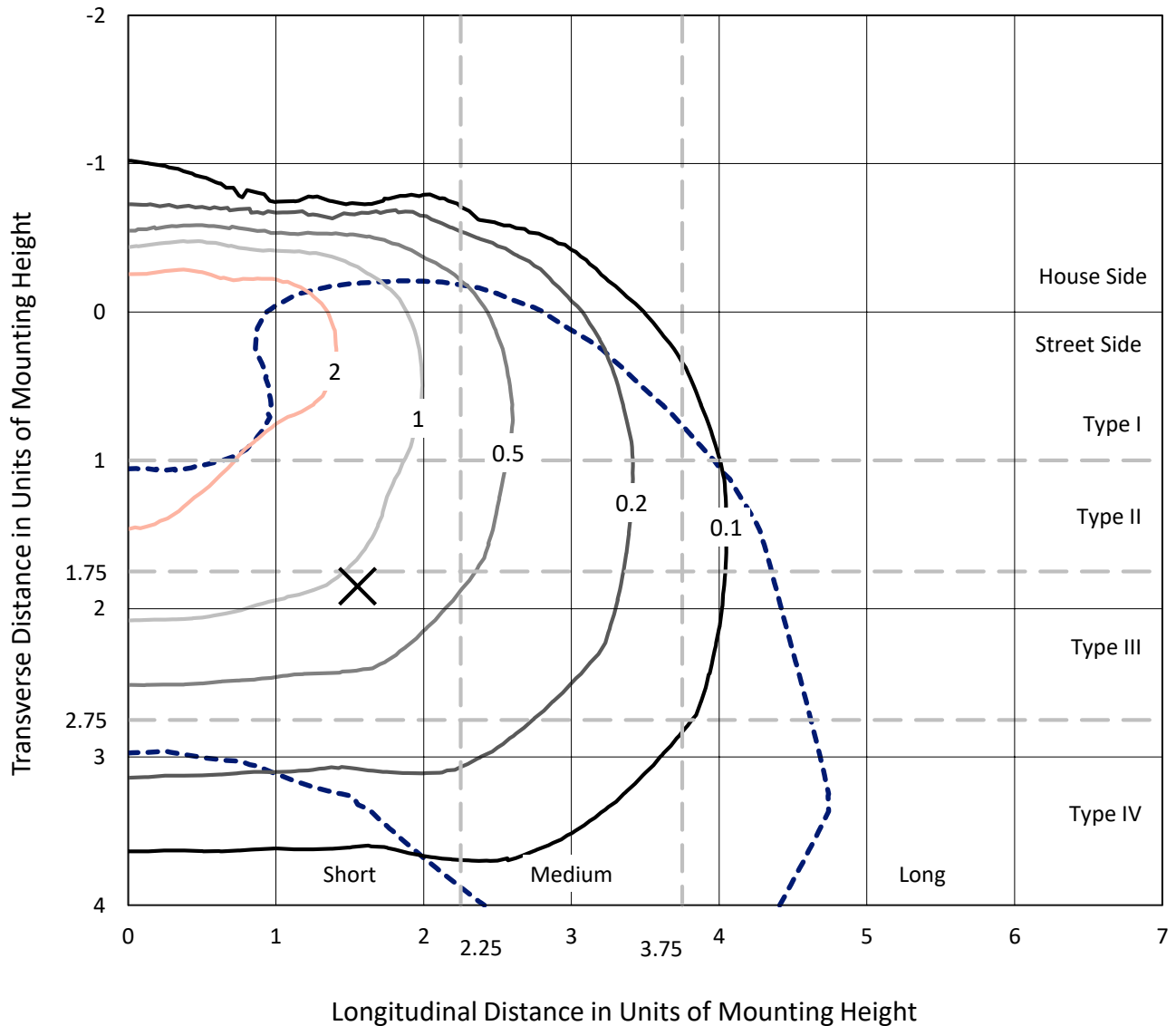
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

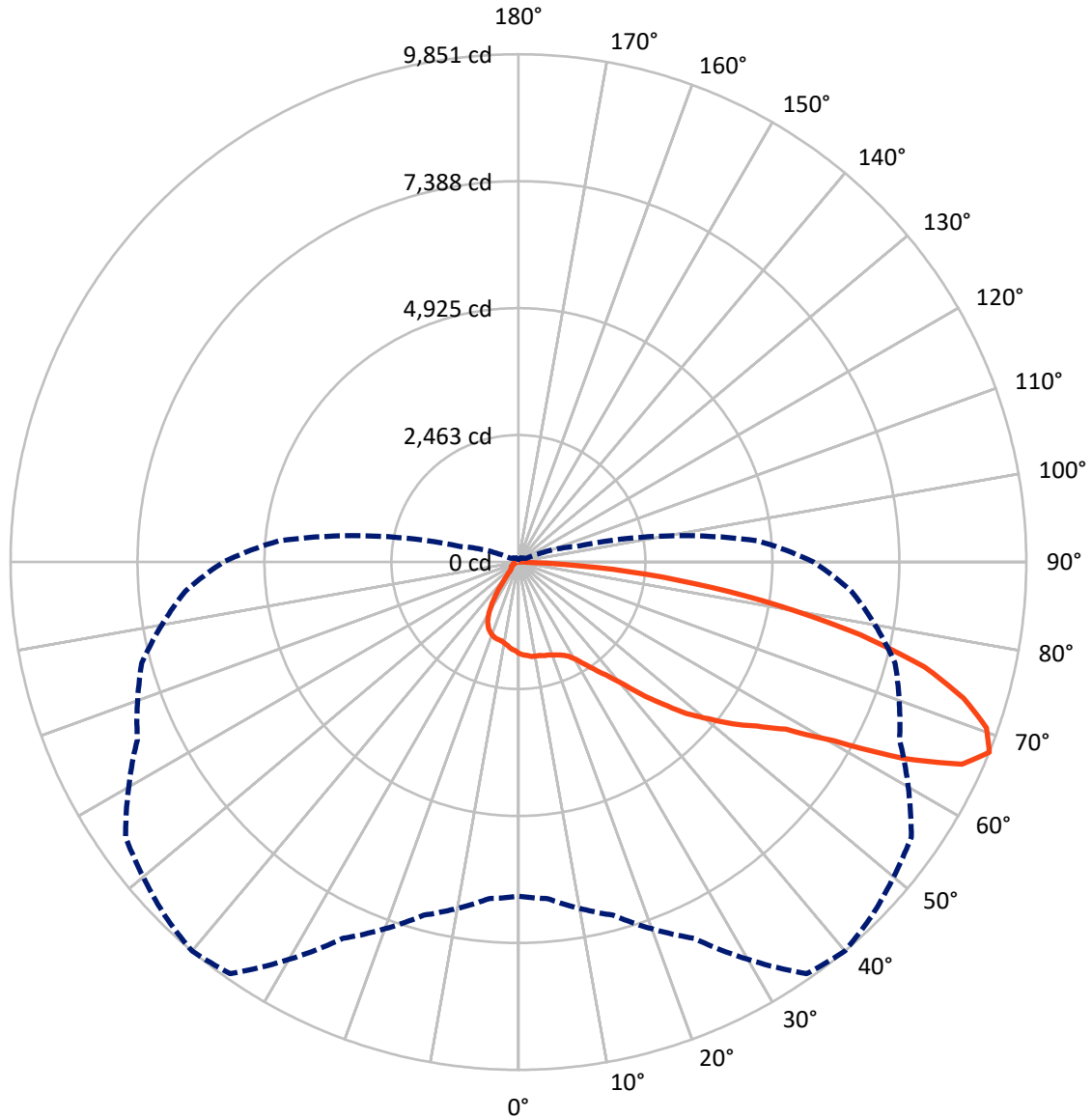
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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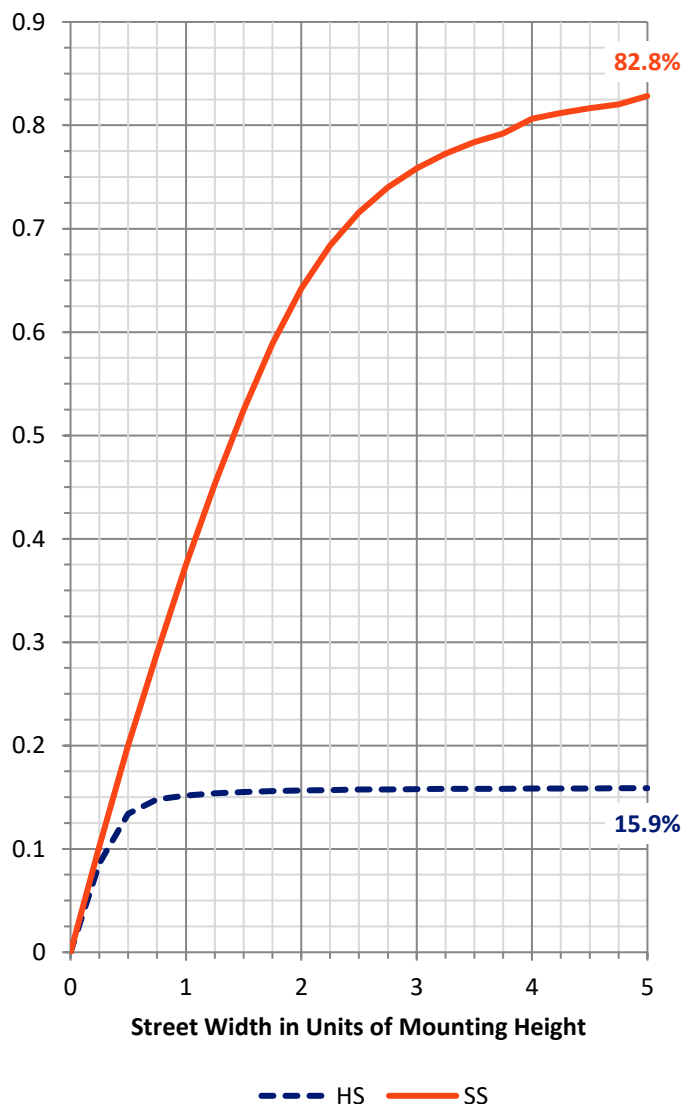
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.1	0.0	2631.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	13763.9	0.0	13763.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	16395.0	0.0	16395.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.0
10°-20°	498.1	3.0
20°-30°	828.7	5.1
30°-40°	1303.1	7.9
40°-50°	2256.3	13.8
50°-60°	3335.2	20.3
60°-70°	4336.0	26.4
70°-80°	3103.6	18.9
80°-90°	566.0	3.5
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°	16395.0	100.0
0°-180°	16395.0	100.0



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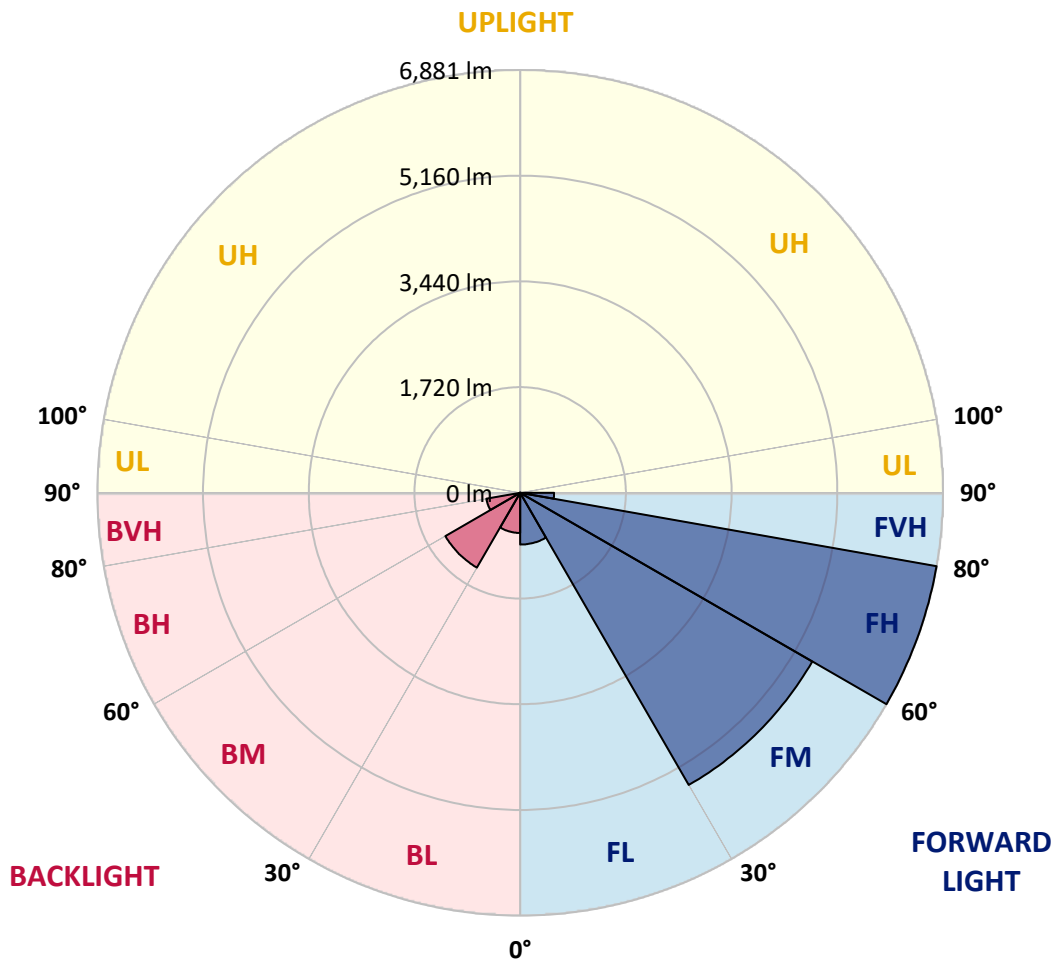
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.1	5.1			
FM	(30°-60°)	5489.2	33.5			
FH	(60°-80°)	6880.6	42.0			G3/7500
FVH	(80°-90°)	552.0	3.4			G4/750
BL	(0°-30°)	652.7	4.0	B2/1000		
BM	(30°-60°)	1405.5	8.6	B2/2500		
BH	(60°-80°)	559.0	3.4	B2/1000		G2/1000
BVH	(80°-90°)	13.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1846.5	1845.3	1833.1	1827.0	1810.0	1803.9	1805.1	1797.8	1780.8	1783.2	1766.2
5°	1849.0	1857.5	1839.2	1834.3	1828.3	1821.0	1829.5	1819.7	1805.1	1810.0	1791.7
7.5°	1859.9	1863.6	1855.0	1850.2	1835.6	1850.2	1849.0	1840.4	1830.7	1822.2	1814.9
10°	1863.6	1859.9	1842.9	1839.2	1839.2	1853.8	1859.9	1863.6	1863.6	1850.2	1845.3
12.5°	1845.3	1842.9	1825.8	1833.1	1849.0	1858.7	1878.2	1890.3	1909.8	1895.2	1887.9
15°	1817.3	1823.4	1830.7	1833.1	1862.3	1884.3	1902.5	1924.4	1957.3	1957.3	1954.9
17.5°	1825.8	1838.0	1846.5	1858.7	1886.7	1894.0	1919.6	1954.9	2009.6	2013.3	2019.4
20°	1868.4	1868.4	1870.9	1879.4	1903.7	1925.6	1947.5	1992.6	2055.9	2076.6	2082.7
22.5°	1914.7	1912.2	1923.2	1922.0	1941.5	1956.1	1984.1	2023.0	2102.1	2141.1	2156.9
25°	1952.4	1959.7	1969.5	1957.3	1995.0	2001.1	2023.0	2070.5	2154.5	2223.9	2257.9
27.5°	2016.9	2021.8	2019.4	2025.5	2063.2	2066.8	2087.5	2155.7	2233.6	2328.5	2402.8
30°	2127.7	2110.7	2113.1	2126.5	2181.3	2188.6	2210.5	2276.2	2338.3	2463.6	2580.5
32.5°	2279.8	2279.8	2253.1	2278.6	2341.9	2361.4	2394.3	2492.9	2553.7	2620.7	2813.0
35°	2570.8	2570.8	2551.3	2484.3	2516.0	2564.7	2625.5	2761.9	2949.3	3168.4	3372.9
37.5°	3052.8	3045.5	2968.8	2848.3	2780.1	2797.2	2856.8	3077.1	3381.4	3915.8	4072.8
40°	3628.5	3607.8	3464.2	3296.2	3122.2	3093.0	3120.9	3397.3	3830.6	4623.0	4682.6
42.5°	4139.8	4138.5	3928.0	3785.5	3562.8	3514.1	3481.2	3721.0	4281.0	5136.7	5157.4
45°	4627.9	4615.7	4411.2	4256.6	4053.3	3929.2	3920.7	4088.6	4754.5	5599.2	5511.6
47.5°	5062.4	5080.7	4851.8	4703.3	4478.1	4392.9	4324.8	4468.4	5190.2	5993.6	5812.2
50°	5562.7	5595.6	5253.5	5090.4	4862.8	4778.8	4816.5	4922.4	5624.8	6316.1	6080.0
52.5°	6194.4	6089.7	5750.1	5470.2	5258.4	5217.0	5225.5	5372.8	6127.5	6580.3	6266.2
55°	6938.1	6783.6	6442.7	6005.8	5660.1	5621.1	5617.5	5767.2	6592.5	6827.4	6409.9
57.5°	7218.1	7298.4	7164.5	6842.0	6230.9	6116.5	6027.7	6166.4	7010.0	7100.0	6560.8
60°	7864.4	7950.9	7852.3	7645.3	7438.4	7040.4	6650.9	6637.5	7399.5	7360.5	6624.1
62.5°	7936.3	7908.3	8346.5	8419.5	8542.4	8387.8	8099.4	7261.9	7751.2	7493.2	6674.0
65°	7534.6	7538.2	8126.1	8527.8	9377.4	9456.6	9277.6	8255.2	8015.4	7545.5	6638.7
67.5°	6482.9	6554.7	7090.3	8053.1	9747.5	9850.9	9700.0	9303.2	8157.8	7563.8	6485.3
70°	5571.2	5573.6	6080.0	7254.6	9552.7	9630.6	9561.2	9371.4	8103.0	7418.9	6069.0
72.5°	4384.4	4371.0	4815.3	6002.1	8865.0	9030.5	8992.8	9123.0	7902.2	6895.5	5163.4
75°	3166.0	3192.8	3643.1	4623.0	7625.9	8139.5	8322.1	8718.9	7186.5	5856.0	3785.5
77.5°	2216.6	2243.3	2675.4	3511.7	6154.3	6773.8	7067.2	7415.3	5824.4	4340.6	1940.2
80°	1449.7	1474.1	1845.3	2637.7	4587.7	5116.0	5336.3	5128.1	3420.4	1823.4	213.0
82.5°	842.3	889.8	1172.2	1810.0	3214.7	3465.4	3477.6	2698.6	1278.1	163.1	99.8
85°	410.2	440.6	701.1	1073.6	1758.9	1849.0	1715.1	1004.2	298.2	77.9	57.2
87.5°	60.9	80.3	276.3	405.3	298.2	244.7	147.3	34.1	19.5	9.7	7.3
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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1756.4	1755.2	1758.9	1743.1	1744.3	1724.8	1717.5	1713.8	1730.9	1728.4	1740.6
5°	1778.4	1766.2	1765.0	1726.0	1722.4	1698.0	1683.4	1661.5	1678.5	1674.9	1674.9
7.5°	1791.7	1779.6	1772.3	1726.0	1694.4	1651.8	1627.4	1610.4	1609.2	1605.5	1606.7
10°	1813.7	1807.6	1768.6	1717.5	1674.9	1620.1	1573.9	1547.1	1534.9	1536.1	1527.6
12.5°	1862.3	1850.2	1797.8	1737.0	1668.8	1593.3	1533.7	1486.2	1461.9	1457.0	1443.6
15°	1931.7	1918.3	1852.6	1783.2	1684.6	1595.8	1506.9	1422.9	1381.5	1364.5	1352.3
17.5°	2013.3	1992.6	1917.1	1838.0	1717.5	1593.3	1481.4	1368.2	1289.0	1244.0	1240.3
20°	2077.8	2068.1	1981.6	1896.4	1738.2	1577.5	1438.8	1289.0	1171.0	1088.2	1071.2
22.5°	2163.0	2164.2	2068.1	1940.2	1755.2	1550.7	1371.8	1178.3	1017.6	906.8	887.4
25°	2285.9	2267.7	2159.3	1975.5	1758.9	1520.3	1280.5	1039.5	830.1	706.0	684.1
27.5°	2433.2	2406.4	2233.6	1993.8	1743.1	1459.4	1158.8	858.1	613.5	506.4	489.3
30°	2589.0	2525.7	2294.5	2001.1	1694.4	1360.8	985.9	626.9	434.5	359.1	351.8
32.5°	2788.6	2696.1	2346.8	1976.8	1620.1	1211.1	764.4	429.7	300.7	260.5	262.9
35°	3197.6	2971.2	2428.3	1950.0	1515.4	1023.7	534.4	284.8	232.5	227.6	228.8
37.5°	3816.0	3456.9	2572.0	1911.0	1359.6	782.7	343.3	220.3	221.5	221.5	221.5
40°	4413.6	3987.6	2792.3	1834.3	1168.5	547.7	226.4	208.1	214.2	213.0	214.2
42.5°	4839.7	4382.0	3023.6	1740.6	948.2	346.9	203.3	196.0	199.6	198.4	202.1
45°	5185.3	4720.4	3234.1	1607.9	709.6	226.4	199.6	186.2	182.6	181.4	185.0
47.5°	5441.0	4943.1	3385.1	1442.4	473.5	194.8	191.1	171.6	166.8	166.8	168.0
50°	5689.3	5157.4	3430.1	1253.7	292.1	189.9	180.1	159.5	152.2	149.7	152.2
52.5°	5862.1	5230.4	3439.9	1040.7	196.0	185.0	166.8	144.8	136.3	135.1	136.3
55°	6009.4	5380.1	3360.7	775.4	175.3	174.1	154.6	130.2	120.5	125.4	127.8
57.5°	6045.9	5394.7	3202.5	512.4	174.1	159.5	141.2	116.9	109.5	114.4	115.6
60°	6138.4	5335.1	3005.3	315.3	170.4	142.4	125.4	103.5	98.6	99.8	102.2
62.5°	6059.3	5302.2	2668.1	220.3	157.0	130.2	116.9	94.9	86.4	85.2	85.2
65°	5979.0	5108.7	2040.1	182.6	140.0	121.7	105.9	84.0	74.3	69.4	69.4
67.5°	5723.4	4675.3	1164.9	169.2	126.6	112.0	96.2	76.7	64.5	58.4	56.0
70°	5079.5	3745.4	359.1	154.6	127.8	104.7	88.9	66.9	56.0	47.5	46.3
72.5°	3977.9	2341.9	168.0	136.3	131.5	97.4	82.8	62.1	49.9	40.2	39.0
75°	2340.7	561.1	137.5	101.0	112.0	103.5	81.6	59.6	43.8	32.9	31.6
77.5°	508.8	136.3	122.9	68.2	84.0	99.8	77.9	52.3	39.0	25.6	24.3
80°	122.9	107.1	112.0	52.3	56.0	69.4	63.3	45.0	35.3	20.7	19.5
82.5°	82.8	80.3	98.6	32.9	28.0	25.6	26.8	28.0	29.2	15.8	14.6
85°	54.8	69.4	52.3	18.3	15.8	13.4	13.4	12.2	17.0	9.7	9.7
87.5°	8.5	7.3	8.5	7.3	7.3	6.1	4.9	4.9	3.7	4.9	4.9
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)