

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: P553604

Luminaire Tested: **VERD-G-CA2-160-727-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-727-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1460mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17163 lumens
Efficiency: N/A
Efficacy: 105.6 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

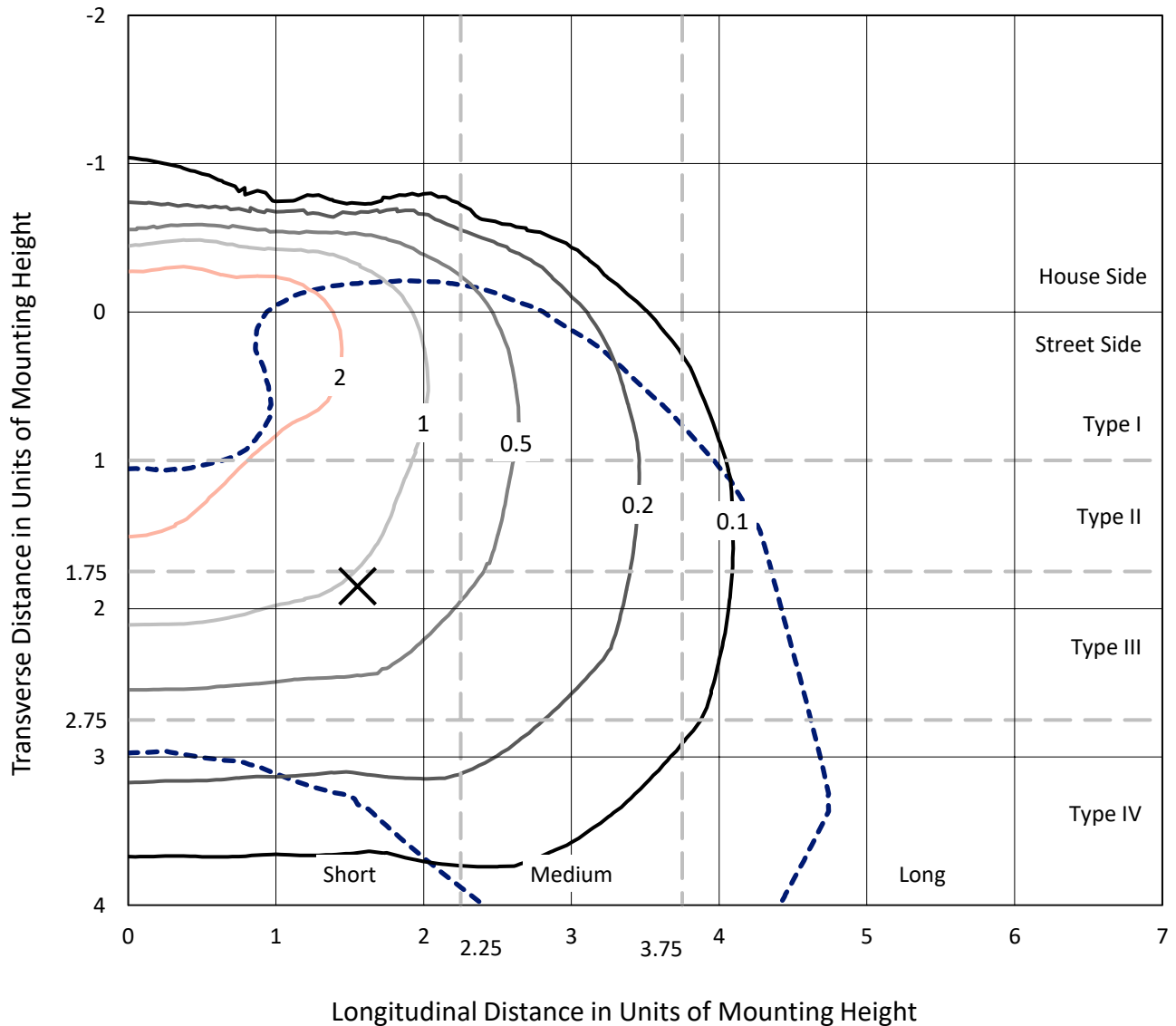
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

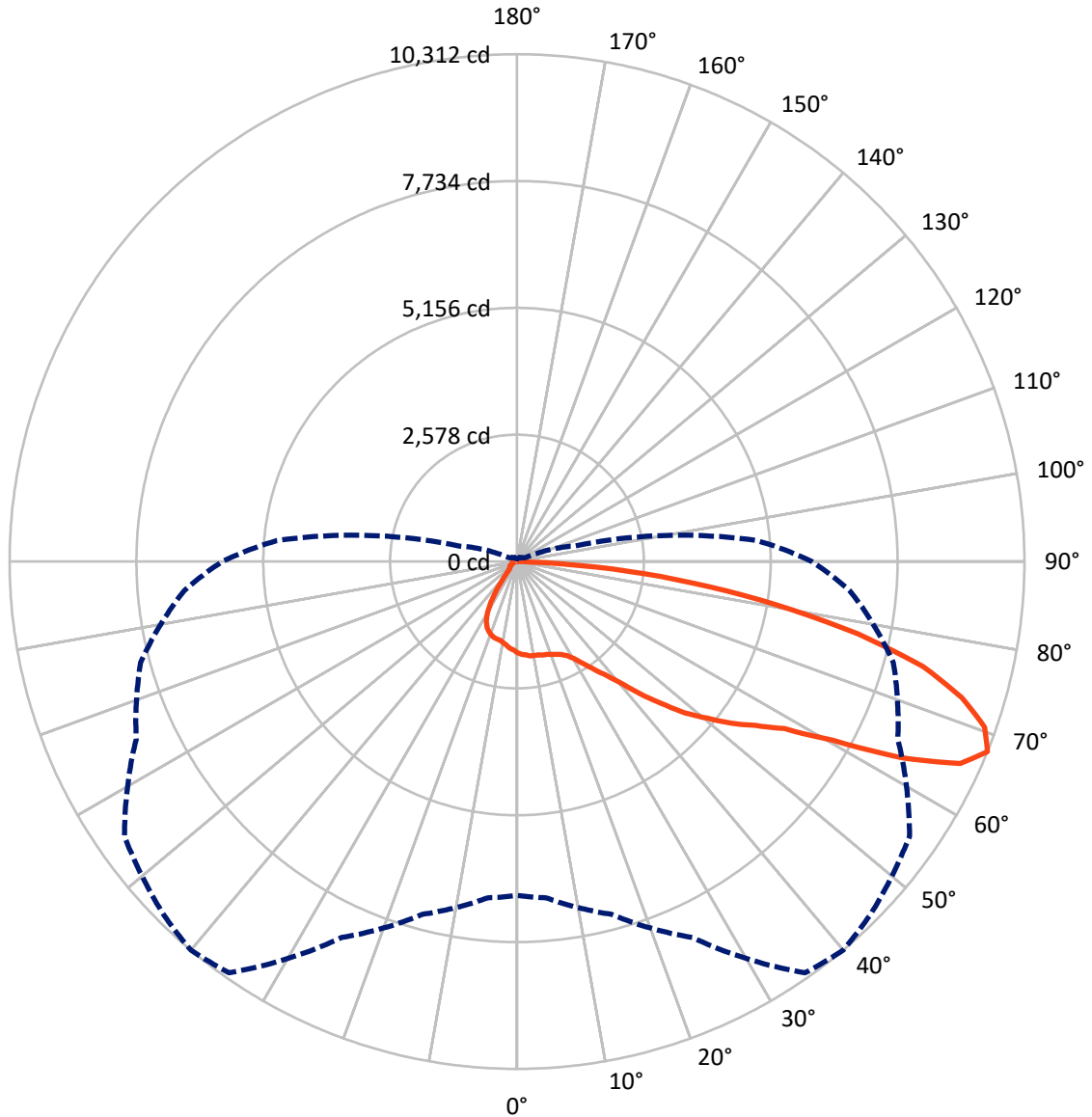
✕ Max cd
 - - - 1/2 Max cd



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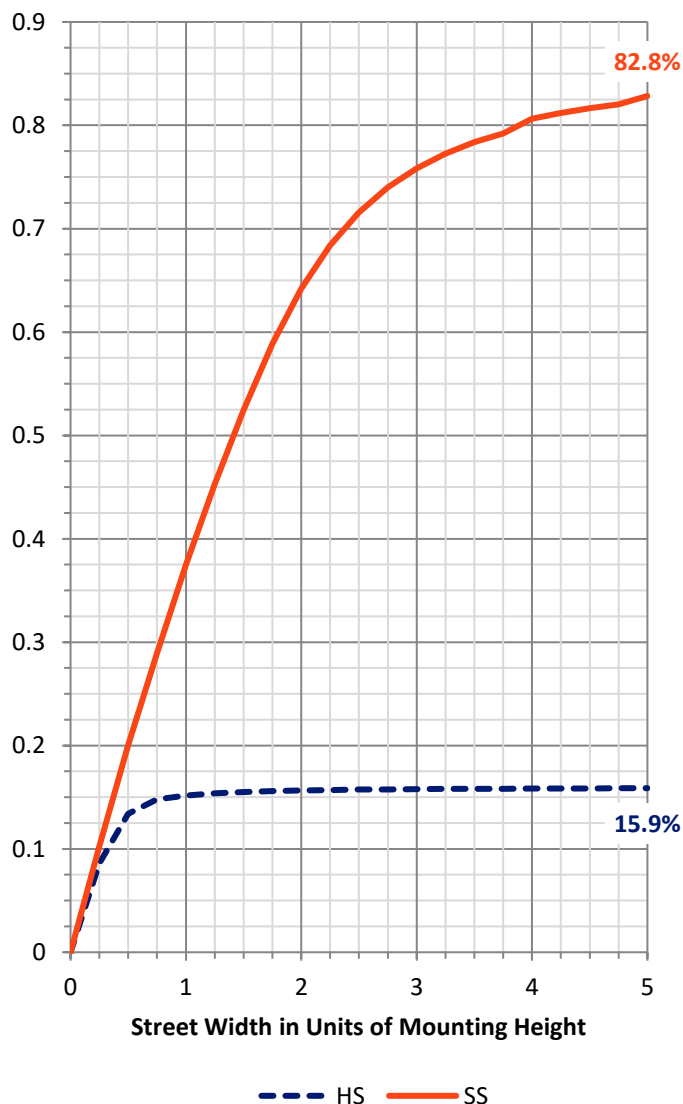
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2754.4	0.0	2754.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	14408.6	0.0	14408.6
	% Fixture	84.0	0.0	84.0
Total	Lumens	17163.0	0.0	17163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.0
10°-20°	521.5	3.0
20°-30°	867.5	5.1
30°-40°	1364.2	7.9
40°-50°	2362.0	13.8
50°-60°	3491.4	20.3
60°-70°	4539.1	26.4
70°-80°	3249.0	18.9
80°-90°	592.5	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°	17163.0	100.0
0°-180°	17163.0	100.0

Coefficient of Utilization



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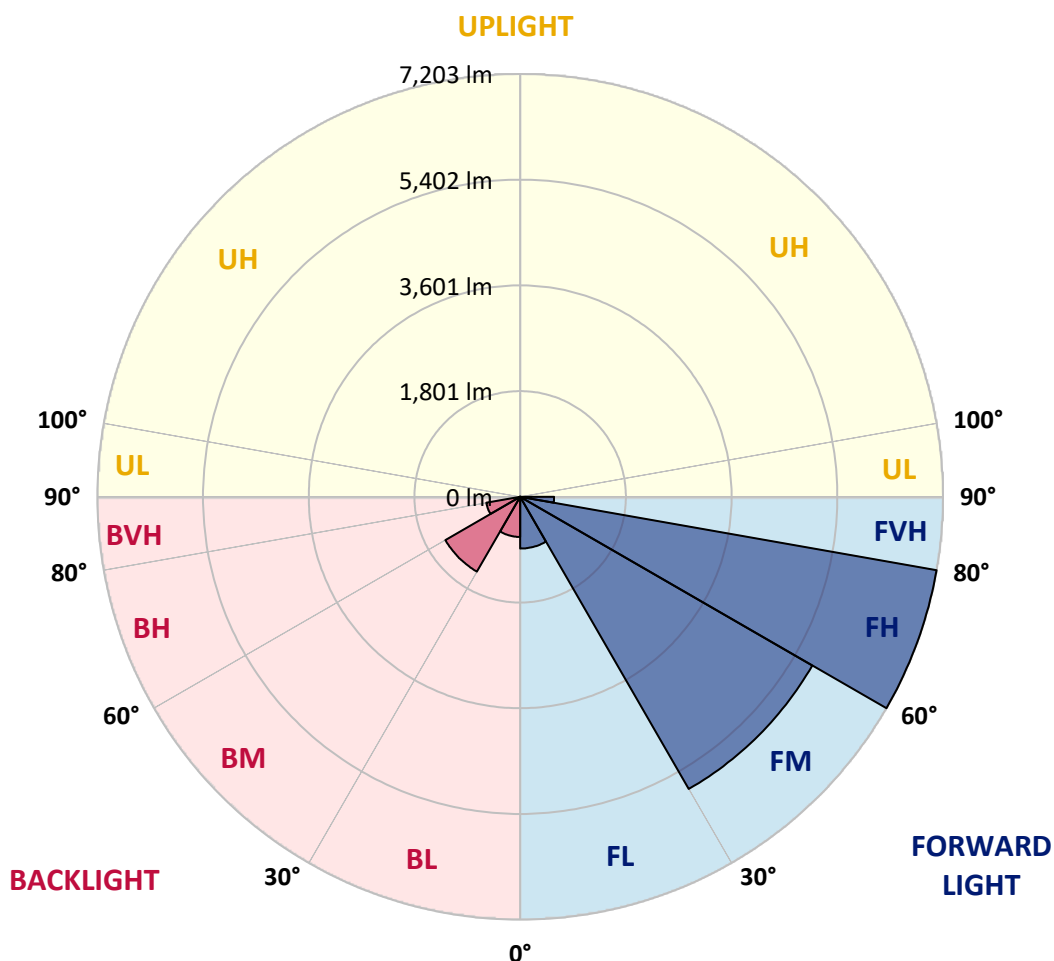
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	881.5	5.1			
FM	(30°-60°)	5746.3	33.5			
FH	(60°-80°)	7202.9	42.0			G3/7500
FVH	(80°-90°)	577.9	3.4			G4/750
BL	(0°-30°)	683.3	4.0	B2/1000		
BM	(30°-60°)	1471.3	8.6	B2/2500		
BH	(60°-80°)	585.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	14.6	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°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1933.0	1931.7	1919.0	1912.6	1894.8	1888.4	1889.7	1882.0	1864.2	1866.8	1848.9
5°	1935.6	1944.5	1925.4	1920.3	1913.9	1906.3	1915.2	1905.0	1889.7	1894.8	1875.7
7.5°	1947.0	1950.9	1941.9	1936.8	1921.5	1936.8	1935.6	1926.6	1916.5	1907.5	1899.9
10°	1950.9	1947.0	1929.2	1925.4	1925.4	1940.7	1947.0	1950.9	1950.9	1936.8	1931.7
12.5°	1931.7	1929.2	1911.4	1919.0	1935.6	1945.8	1966.1	1978.9	1999.3	1984.0	1976.3
15°	1902.4	1908.8	1916.5	1919.0	1949.6	1972.5	1991.6	2014.6	2049.0	2049.0	2046.4
17.5°	1911.4	1924.1	1933.0	1945.8	1975.1	1982.7	2009.5	2046.4	2103.8	2107.6	2114.0
20°	1956.0	1956.0	1958.5	1967.4	1992.9	2015.8	2038.8	2085.9	2152.2	2173.8	2180.2
22.5°	2004.4	2001.8	2013.3	2012.0	2032.4	2047.7	2077.0	2117.8	2200.6	2241.4	2257.9
25°	2043.9	2051.5	2061.7	2049.0	2088.5	2094.8	2117.8	2167.5	2255.4	2328.0	2363.7
27.5°	2111.4	2116.5	2114.0	2120.3	2159.8	2163.7	2185.3	2256.7	2338.2	2437.6	2515.3
30°	2227.4	2209.5	2212.1	2226.1	2283.4	2291.1	2314.0	2382.8	2447.8	2579.1	2701.4
32.5°	2386.6	2386.6	2358.6	2385.4	2451.6	2472.0	2506.4	2609.6	2673.3	2743.4	2944.8
35°	2691.2	2691.2	2670.8	2600.7	2633.8	2684.8	2748.5	2891.2	3087.5	3316.8	3530.9
37.5°	3195.8	3188.1	3107.9	2981.7	2910.4	2928.2	2990.6	3221.3	3539.8	4099.2	4263.6
40°	3798.5	3776.8	3626.5	3450.6	3268.4	3237.8	3267.1	3556.4	4010.0	4839.6	4902.0
42.5°	4333.7	4332.4	4112.0	3962.9	3729.7	3678.7	3644.3	3895.3	4481.5	5377.3	5398.9
45°	4844.6	4831.9	4617.8	4456.0	4243.2	4113.2	4104.3	4280.2	4977.2	5861.5	5769.7
47.5°	5299.6	5318.7	5079.1	4923.7	4687.9	4598.7	4527.4	4677.7	5433.3	6274.3	6084.5
50°	5823.3	5857.7	5499.6	5328.9	5090.6	5002.7	5042.2	5153.0	5888.2	6612.0	6364.8
52.5°	6484.6	6375.0	6019.5	5726.4	5504.7	5461.4	5470.3	5624.5	6414.5	6888.5	6559.8
55°	7263.1	7101.3	6744.5	6287.1	5925.2	5884.4	5880.6	6037.3	6901.3	7147.2	6710.1
57.5°	7556.2	7640.3	7500.2	7162.5	6522.8	6403.0	6310.0	6455.3	7338.3	7432.6	6868.1
60°	8232.8	8323.3	8220.1	8003.5	7786.9	7370.2	6962.4	6948.4	7746.1	7705.3	6934.4
62.5°	8308.0	8278.7	8737.4	8813.9	8942.6	8780.8	8478.8	7602.1	8114.3	7844.2	6986.6
65°	7887.5	7891.3	8506.8	8927.3	9816.7	9899.5	9712.2	8641.9	8390.8	7899.0	6949.7
67.5°	6786.6	6861.8	7422.4	8430.4	10204.1	10312.4	10154.4	9739.0	8539.9	7918.1	6789.1
70°	5832.2	5834.7	6364.8	7594.5	10000.2	10081.8	10009.1	9810.3	8482.6	7766.5	6353.3
72.5°	4589.8	4575.8	5040.9	6283.3	9280.3	9453.6	9414.1	9550.4	8272.3	7218.6	5405.3
75°	3314.3	3342.3	3813.8	4839.6	7983.1	8520.8	8712.0	9127.4	7523.1	6130.4	3962.9
77.5°	2320.4	2348.4	2800.8	3676.2	6442.5	7091.1	7398.2	7762.7	6097.2	4543.9	2031.1
80°	1517.6	1543.1	1931.7	2761.3	4802.6	5355.6	5586.3	5368.4	3580.6	1908.8	223.0
82.5°	881.8	931.5	1227.1	1894.8	3365.3	3627.8	3640.5	2825.0	1337.9	170.7	104.5
85°	429.4	461.3	734.0	1123.9	1841.3	1935.6	1795.4	1051.2	312.2	81.6	59.9
87.5°	63.7	84.1	289.3	424.3	312.2	256.1	154.2	35.7	20.4	10.2	7.6
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°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1838.7	1837.4	1841.3	1824.7	1826.0	1805.6	1797.9	1794.1	1812.0	1809.4	1822.2
5°	1861.7	1848.9	1847.6	1806.9	1803.0	1777.6	1762.3	1739.3	1757.2	1753.3	1753.3
7.5°	1875.7	1862.9	1855.3	1806.9	1773.7	1729.1	1703.7	1685.8	1684.5	1680.7	1682.0
10°	1898.6	1892.2	1851.5	1797.9	1753.3	1696.0	1647.6	1619.6	1606.8	1608.1	1599.2
12.5°	1949.6	1936.8	1882.0	1818.3	1747.0	1668.0	1605.5	1555.8	1530.4	1525.3	1511.2
15°	2022.2	2008.2	1939.4	1866.8	1763.5	1670.5	1577.5	1489.6	1446.3	1428.4	1415.7
17.5°	2107.6	2085.9	2006.9	1924.1	1797.9	1668.0	1550.7	1432.2	1349.4	1302.3	1298.4
20°	2175.1	2164.9	2074.5	1985.3	1819.6	1651.4	1506.1	1349.4	1225.8	1139.2	1121.3
22.5°	2264.3	2265.6	2164.9	2031.1	1837.4	1623.4	1436.1	1233.5	1065.3	949.3	928.9
25°	2393.0	2373.9	2260.5	2068.1	1841.3	1591.5	1340.5	1088.2	869.0	739.1	716.1
27.5°	2547.2	2519.2	2338.2	2087.2	1824.7	1527.8	1213.1	898.3	642.2	530.1	512.2
30°	2710.3	2644.0	2401.9	2094.8	1773.7	1424.6	1032.1	656.2	454.9	375.9	368.3
32.5°	2919.3	2822.4	2456.7	2069.4	1696.0	1267.9	800.2	449.8	314.7	272.7	275.2
35°	3347.4	3110.4	2542.1	2041.3	1586.4	1071.6	559.4	298.2	243.4	238.3	239.6
37.5°	3994.7	3618.8	2692.5	2000.6	1423.3	819.3	359.3	230.6	231.9	231.9	231.9
40°	4620.4	4174.4	2923.1	1920.3	1223.3	573.4	237.0	217.9	224.3	223.0	224.3
42.5°	5066.4	4587.3	3165.2	1822.2	992.6	363.2	212.8	205.2	209.0	207.7	211.5
45°	5428.2	4941.5	3385.6	1683.3	742.9	237.0	209.0	195.0	191.1	189.9	193.7
47.5°	5695.8	5174.7	3543.7	1510.0	495.7	203.9	200.1	179.7	174.6	174.6	175.8
50°	5955.8	5398.9	3590.8	1312.5	305.8	198.8	188.6	166.9	159.3	156.7	159.3
52.5°	6136.7	5475.4	3601.0	1089.5	205.2	193.7	174.6	151.6	142.7	141.4	142.7
55°	6290.9	5632.1	3518.2	811.7	183.5	182.2	161.8	136.3	126.1	131.2	133.8
57.5°	6329.1	5647.4	3352.5	536.5	182.2	166.9	147.8	122.3	114.7	119.8	121.1
60°	6426.0	5585.0	3146.1	330.0	178.4	149.1	131.2	108.3	103.2	104.5	107.0
62.5°	6343.2	5550.6	2793.1	230.6	164.4	136.3	122.3	99.4	90.5	89.2	89.2
65°	6259.1	5348.0	2135.6	191.1	146.5	127.4	110.9	87.9	77.7	72.6	72.6
67.5°	5991.5	4894.3	1219.4	177.1	132.5	117.2	100.7	80.3	67.5	61.2	58.6
70°	5317.4	3920.8	375.9	161.8	133.8	109.6	93.0	70.1	58.6	49.7	48.4
72.5°	4164.2	2451.6	175.8	142.7	137.6	101.9	86.6	65.0	52.2	42.0	40.8
75°	2450.4	587.4	144.0	105.8	117.2	108.3	85.4	62.4	45.9	34.4	33.1
77.5°	532.6	142.7	128.7	71.4	87.9	104.5	81.6	54.8	40.8	26.8	25.5
80°	128.7	112.1	117.2	54.8	58.6	72.6	66.3	47.1	37.0	21.7	20.4
82.5°	86.6	84.1	103.2	34.4	29.3	26.8	28.0	29.3	30.6	16.6	15.3
85°	57.3	72.6	54.8	19.1	16.6	14.0	14.0	12.7	17.8	10.2	10.2
87.5°	8.9	7.6	8.9	7.6	7.6	6.4	5.1	5.1	3.8	5.1	5.1
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)