

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: P507736

Luminaire Tested: **VERD-S-CA1-80-740-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-740-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1500mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10041 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

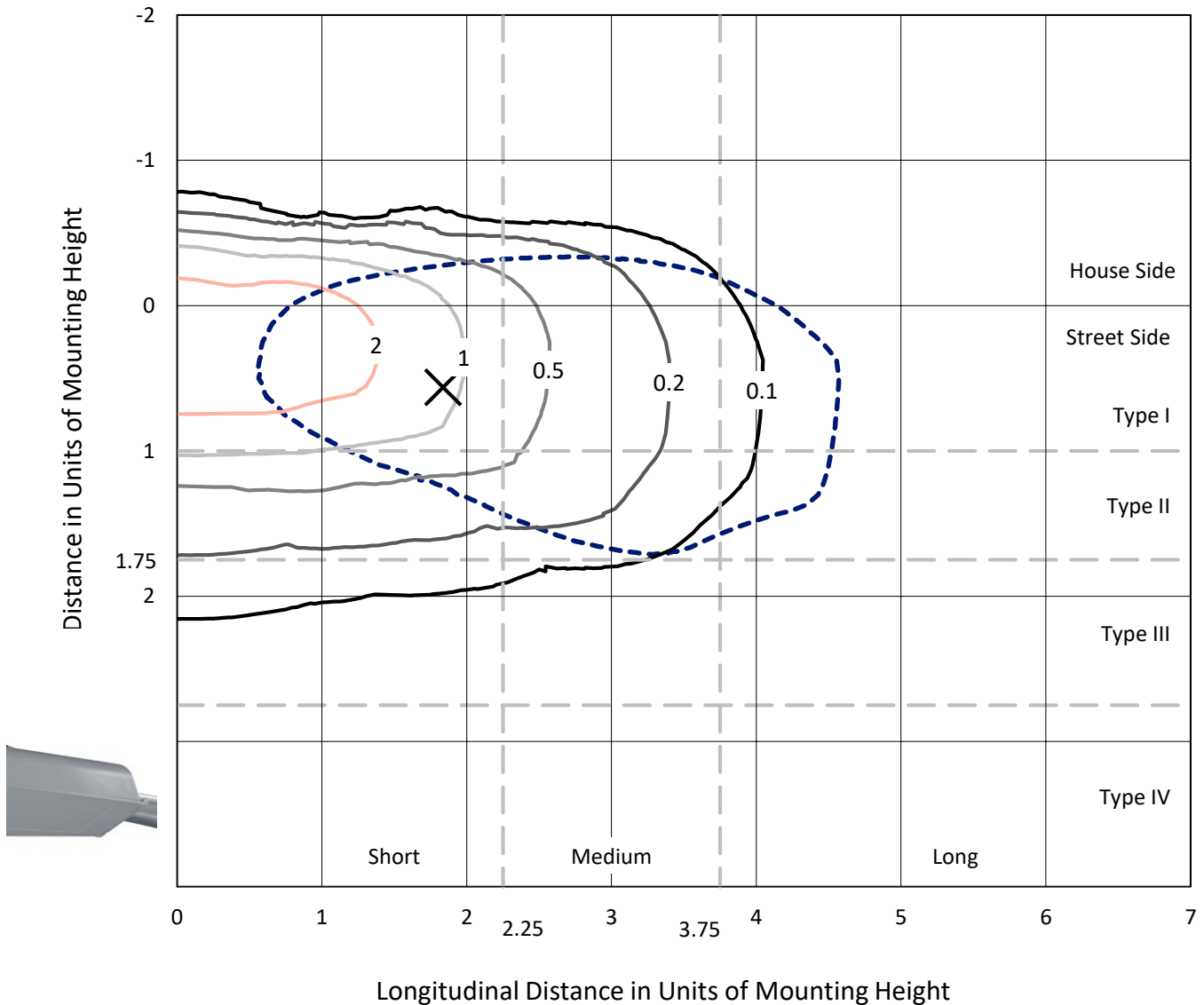
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

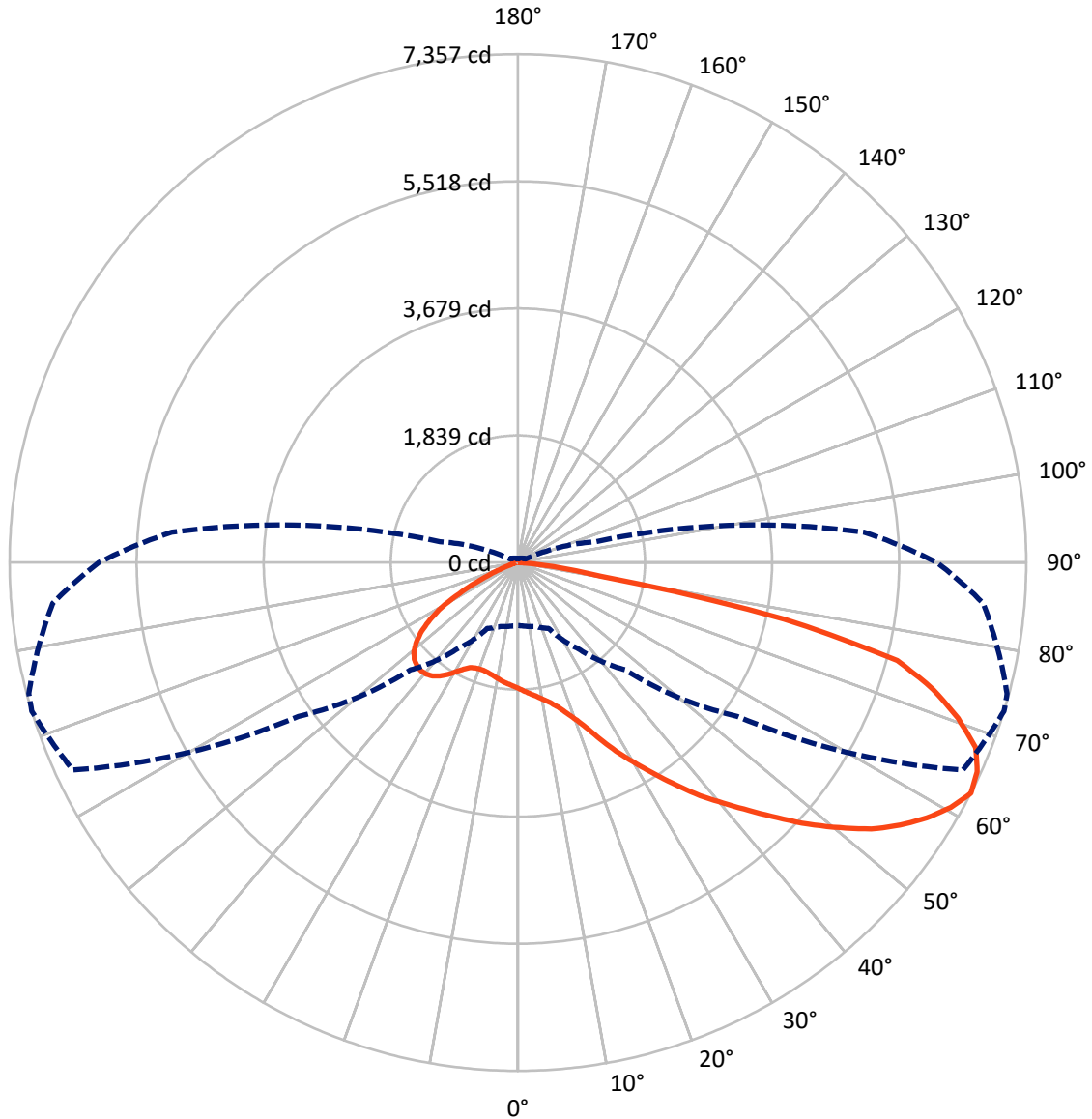
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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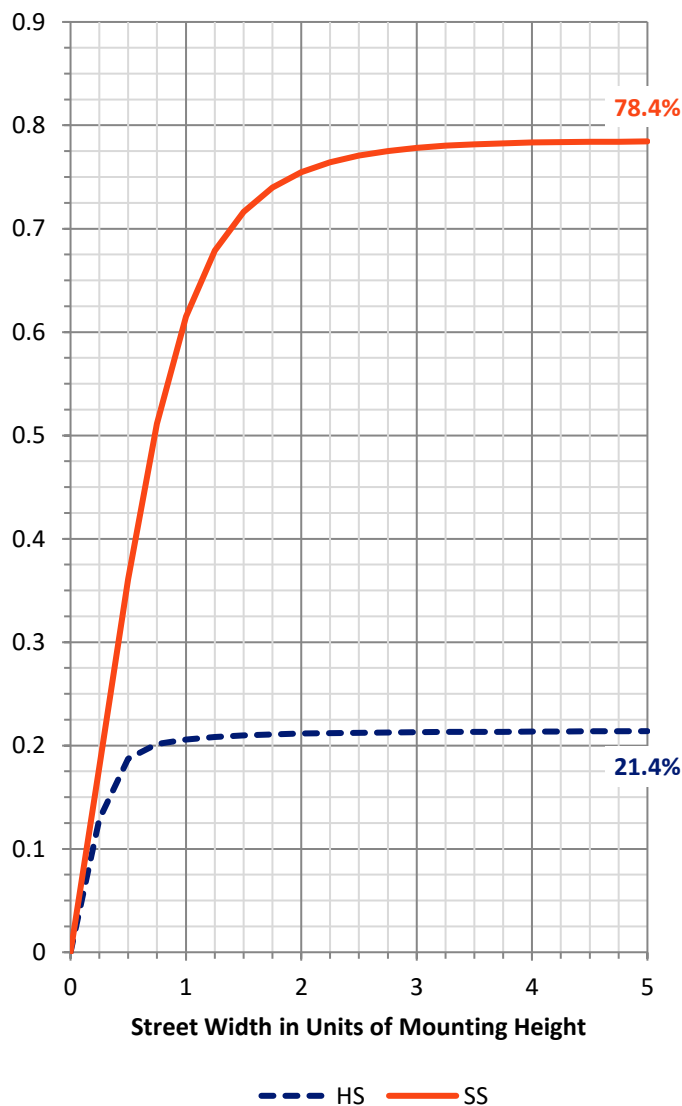
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.9	0.0	2174.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7866.1	0.0	7866.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	10041.0	0.0	10041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.7
10°-20°	525.2	5.2
20°-30°	908.4	9.0
30°-40°	1334.1	13.3
40°-50°	1734.0	17.3
50°-60°	2010.5	20.0
60°-70°	2023.3	20.2
70°-80°	1233.0	12.3
80°-90°	98.2	1.0
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°	10041.0	100.0
0°-180°	10041.0	100.0

Coefficient of Utilization



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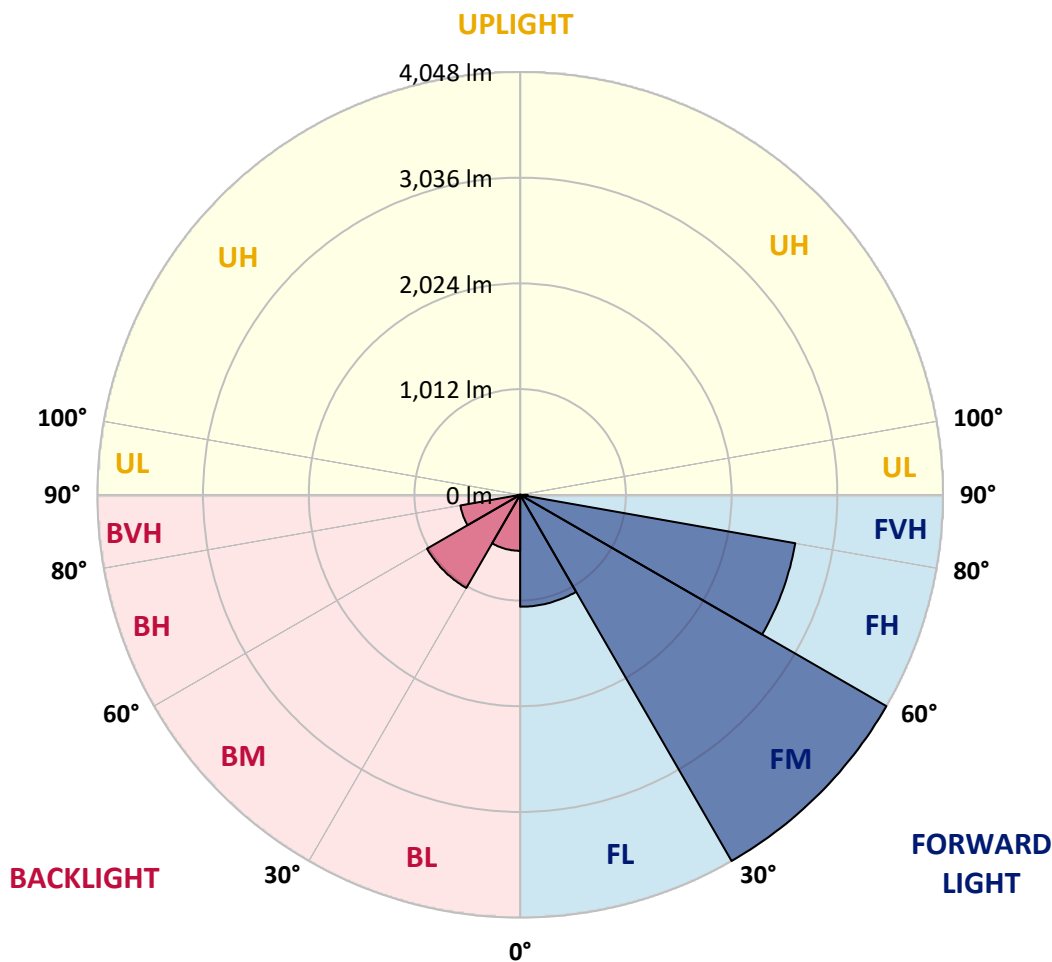
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.8	10.7			
FM (30°-60°)	4048.3	40.3			
FH (60°-80°)	2674.7	26.6			G2/5000
FVH (80°-90°)	71.4	0.7			G1/100
BL (0°-30°)	536.2	5.3	B2/1000		
BM (30°-60°)	1030.2	10.3	B2/2500		
BH (60°-80°)	581.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	26.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0
2.5°	1946.7	1946.7	1943.6	1940.5	1928.3	1916.0	1897.6	1882.3	1866.9	1860.8	1836.3
5°	2060.1	2060.1	2057.0	2044.8	2029.4	2008.0	1977.3	1937.5	1909.9	1906.8	1863.9
7.5°	2155.1	2152.0	2149.0	2142.9	2127.5	2099.9	2054.0	2001.8	1955.9	1943.6	1891.5
10°	2247.1	2250.1	2244.0	2228.7	2210.3	2176.6	2130.6	2069.3	2014.1	1995.7	1916.0
12.5°	2345.2	2342.1	2332.9	2314.5	2290.0	2262.4	2213.4	2152.0	2078.5	2060.1	1955.9
15°	2428.0	2431.0	2415.7	2403.4	2378.9	2348.2	2305.3	2244.0	2170.4	2149.0	2014.1
17.5°	2501.5	2501.5	2498.5	2492.3	2473.9	2452.5	2409.6	2366.6	2290.0	2256.3	2103.0
20°	2556.7	2559.8	2565.9	2578.2	2581.2	2562.8	2541.4	2510.7	2437.2	2403.4	2213.4
22.5°	2605.8	2611.9	2636.4	2673.2	2703.9	2703.9	2700.8	2697.7	2624.2	2602.7	2375.8
25°	2618.0	2627.2	2682.4	2762.1	2811.2	2851.0	2906.2	2927.6	2872.5	2835.7	2587.4
27.5°	2636.4	2645.6	2706.9	2802.0	2924.6	3013.5	3111.6	3166.8	3126.9	3090.1	2829.5
30°	2621.1	2633.3	2700.8	2835.7	2998.2	3185.2	3307.8	3390.6	3378.3	3356.8	3080.9
32.5°	2581.2	2593.5	2673.2	2838.7	3087.1	3359.9	3497.8	3626.6	3660.3	3641.9	3344.6
35°	2501.5	2513.8	2611.9	2814.2	3130.0	3491.7	3687.9	3878.0	3954.6	3942.4	3632.7
37.5°	2400.4	2400.4	2516.9	2740.6	3145.3	3592.9	3856.5	4129.4	4279.6	4261.2	3924.0
40°	2231.8	2262.4	2406.5	2660.9	3120.8	3666.5	4019.0	4389.9	4576.9	4567.7	4239.7
42.5°	2063.1	2087.7	2225.6	2523.0	3062.5	3709.4	4153.9	4662.8	4905.0	4898.8	4543.2
45°	1912.9	1931.3	2044.8	2332.9	2939.9	3721.6	4282.6	4954.0	5266.7	5254.4	4852.8
47.5°	1719.8	1756.6	1900.7	2155.1	2771.3	3684.8	4402.2	5318.8	5659.1	5646.8	5187.0
50°	1302.9	1327.4	1627.8	2011.0	2553.6	3592.9	4500.3	5677.5	6030.0	6005.5	5490.5
52.5°	1183.3	1198.6	1293.7	1833.2	2351.3	3427.3	4561.6	6106.7	6407.1	6367.2	5803.2
55°	1106.7	1118.9	1174.1	1468.4	2173.5	3148.4	4580.0	6511.3	6710.6	6670.7	6091.3
57.5°	1039.2	1045.4	1100.5	1250.8	1962.0	2795.8	4515.6	6811.8	6977.3	6934.4	6339.7
60°	968.7	977.9	1030.0	1140.4	1707.5	2470.9	4316.4	7050.9	7198.0	7161.2	6557.3
62.5°	910.5	922.7	956.5	1051.5	1523.6	2195.0	3881.0	7106.1	7357.4	7329.8	6759.6
65°	840.0	849.2	892.1	971.8	1333.5	2023.3	3439.6	6943.6	7305.3	7339.0	6873.1
67.5°	757.2	766.4	803.2	864.5	1118.9	1842.4	3053.3	6713.7	7145.9	7191.9	6790.3
70°	656.0	662.2	699.0	757.2	928.9	1606.4	2648.7	6376.4	6759.6	6793.4	6462.3
72.5°	545.7	545.7	573.3	640.7	763.3	1330.5	2124.5	5665.2	6287.5	6370.3	5907.4
75°	229.9	242.2	291.2	352.5	487.4	971.8	1453.1	4362.3	5671.4	5741.9	5217.6
77.5°	46.0	49.0	55.2	82.8	128.8	423.1	450.6	1903.7	3936.2	3982.2	3810.5
80°	36.8	36.8	39.9	61.3	85.8	196.2	147.1	622.3	1226.2	1578.8	2035.6
82.5°	12.3	15.3	21.5	33.7	42.9	42.9	49.0	312.7	607.0	653.0	821.6
85°	6.1	6.1	9.2	12.3	12.3	12.3	12.3	55.2	104.2	125.7	174.7
87.5°	3.1	0.0	0.0	0.0	0.0	0.0	3.1	6.1	9.2	9.2	12.3
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°	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0	1824.0
2.5°	1824.0	1814.8	1793.4	1778.0	1756.6	1738.2	1716.7	1704.5	1698.3	1695.3	1689.1
5°	1839.4	1814.8	1771.9	1725.9	1686.1	1655.4	1612.5	1591.0	1578.8	1572.7	1569.6
7.5°	1857.8	1827.1	1753.5	1683.0	1612.5	1560.4	1508.3	1474.6	1459.2	1456.2	1453.1
10°	1870.0	1821.0	1722.9	1646.2	1554.3	1471.5	1410.2	1370.3	1348.9	1345.8	1342.7
12.5°	1894.5	1830.2	1698.3	1588.0	1492.9	1385.7	1321.3	1275.3	1253.8	1235.4	1235.4
15°	1934.4	1851.6	1686.1	1538.9	1413.2	1309.0	1226.2	1177.2	1161.9	1137.3	1131.2
17.5°	2001.8	1891.5	1676.9	1489.9	1339.7	1235.4	1137.3	1085.2	1076.0	1054.6	1042.3
20°	2084.6	1949.7	1683.0	1443.9	1263.0	1143.5	1045.4	993.3	962.6	944.2	938.1
22.5°	2216.4	2035.6	1704.5	1410.2	1195.6	1060.7	956.5	873.7	806.3	781.7	781.7
25°	2403.4	2182.7	1741.3	1382.6	1128.1	981.0	852.2	711.2	622.3	588.6	579.4
27.5°	2615.0	2369.7	1827.1	1358.1	1073.0	892.1	702.0	545.7	450.6	420.0	420.0
30°	2857.1	2565.9	1931.3	1342.7	1005.5	757.2	530.3	398.5	321.9	288.2	285.1
32.5°	3096.3	2768.2	2054.0	1330.5	935.0	591.7	383.2	291.2	226.9	202.3	205.4
35°	3335.4	2967.5	2158.2	1330.5	818.5	426.1	272.8	202.3	162.5	150.2	150.2
37.5°	3605.1	3191.3	2241.0	1312.1	643.8	303.5	187.0	147.1	134.9	128.8	128.8
40°	3884.1	3399.7	2296.1	1272.2	459.8	208.5	131.8	128.8	122.6	113.4	110.4
42.5°	4144.7	3638.9	2329.9	1195.6	300.4	138.0	116.5	119.6	116.5	101.2	98.1
45°	4420.6	3832.0	2348.2	1042.3	199.3	113.4	104.2	110.4	113.4	101.2	98.1
47.5°	4696.5	4043.5	2360.5	812.4	131.8	110.4	98.1	107.3	110.4	98.1	95.0
50°	4987.7	4236.7	2342.1	521.2	116.5	104.2	95.0	98.1	104.2	98.1	95.0
52.5°	5242.2	4411.4	2256.3	291.2	113.4	101.2	88.9	92.0	101.2	95.0	95.0
55°	5502.7	4583.1	2096.9	171.7	110.4	95.0	88.9	92.0	95.0	88.9	92.0
57.5°	5738.8	4748.6	1857.8	141.0	110.4	92.0	92.0	85.8	85.8	79.7	79.7
60°	5919.7	4898.8	1572.7	131.8	104.2	95.0	85.8	79.7	73.6	67.4	67.4
62.5°	6063.8	5027.6	1168.0	122.6	101.2	92.0	79.7	70.5	61.3	55.2	55.2
65°	6143.5	5055.2	824.6	110.4	95.0	88.9	73.6	61.3	49.0	46.0	46.0
67.5°	6051.5	4911.1	502.8	104.2	88.9	85.8	70.5	55.2	42.9	39.9	39.9
70°	5698.9	4524.8	282.0	95.0	79.7	76.6	64.4	49.0	39.9	33.7	33.7
72.5°	5116.5	3957.7	141.0	79.7	67.4	67.4	58.2	42.9	36.8	30.7	30.7
75°	4322.5	3246.5	101.2	58.2	55.2	55.2	49.0	39.9	33.7	27.6	27.6
77.5°	3166.8	2139.8	82.8	49.0	39.9	39.9	42.9	36.8	30.7	24.5	24.5
80°	1640.1	1060.7	70.5	36.8	33.7	30.7	30.7	30.7	24.5	21.5	21.5
82.5°	726.5	407.7	46.0	27.6	27.6	24.5	24.5	24.5	21.5	18.4	18.4
85°	141.0	76.6	24.5	21.5	18.4	18.4	18.4	15.3	15.3	15.3	15.3
87.5°	12.3	12.3	12.3	12.3	12.3	9.2	9.2	9.2	9.2	9.2	9.2
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)