

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: P507752

Luminaire Tested: **VERD-S-CA1-80-760-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507752
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-CA1-80-760-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1500mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10008 lumens
Efficiency: N/A
Efficacy: 120.4 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

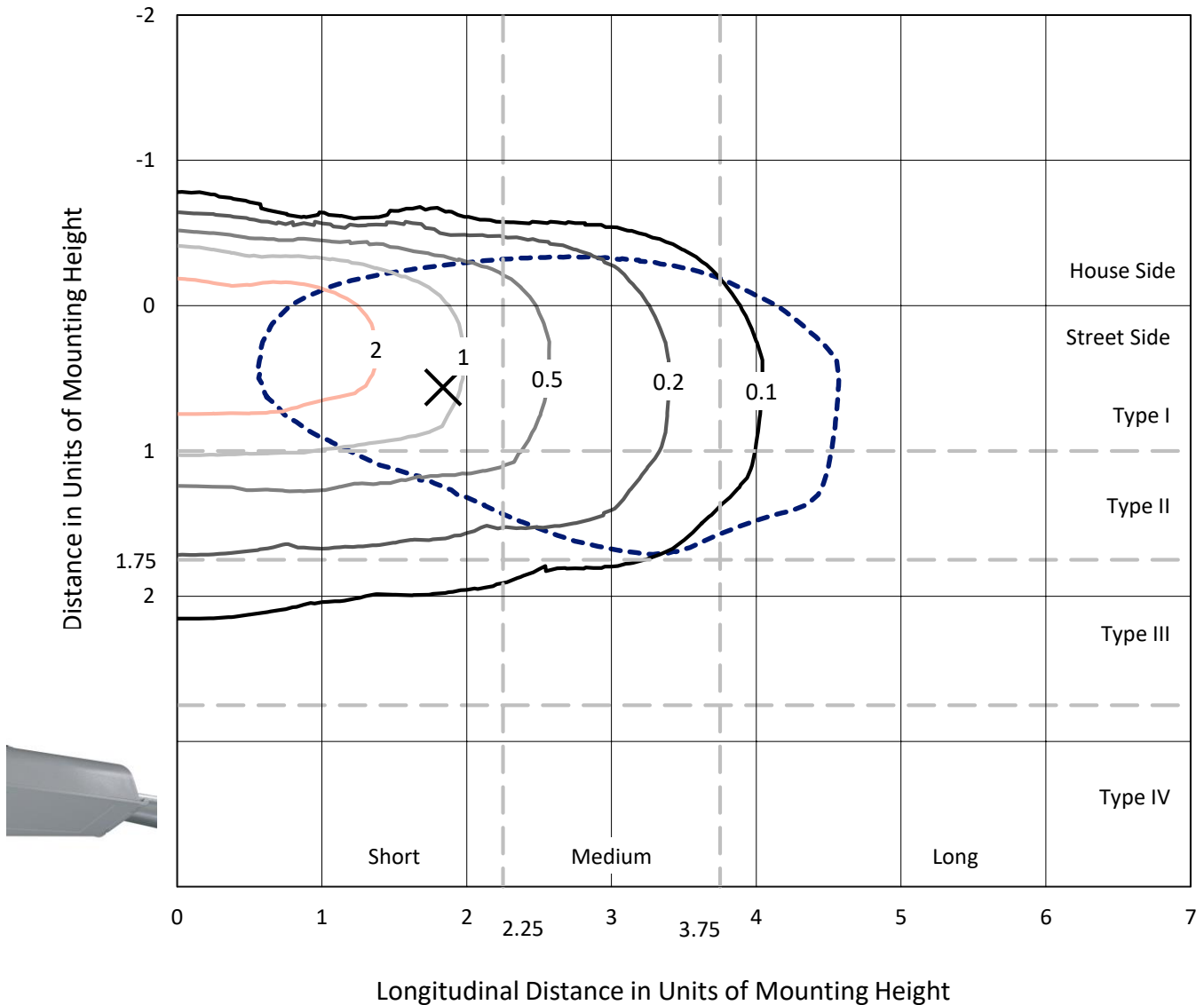
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

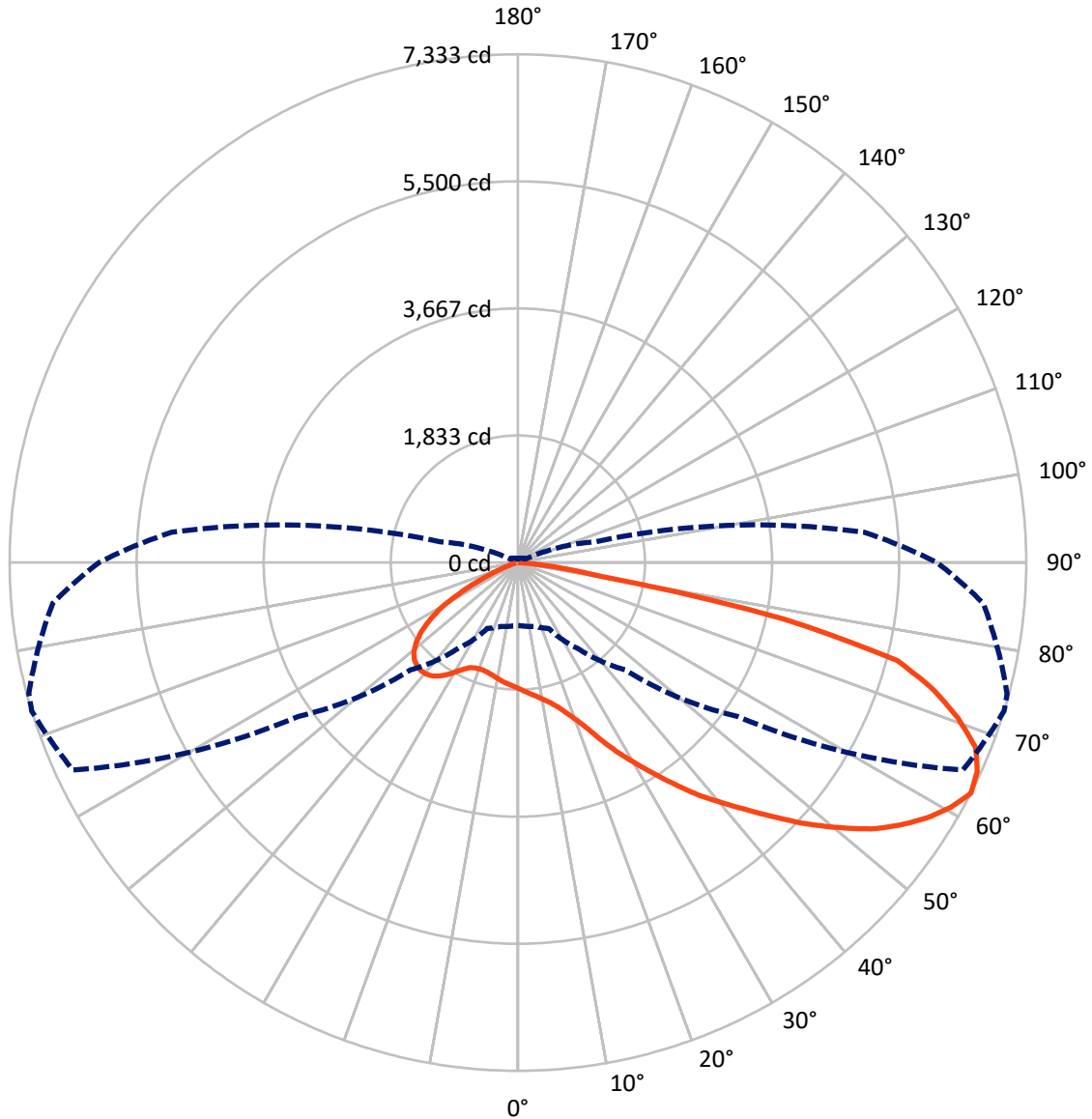
✕ Max cd
 - - - 1/2 Max cd



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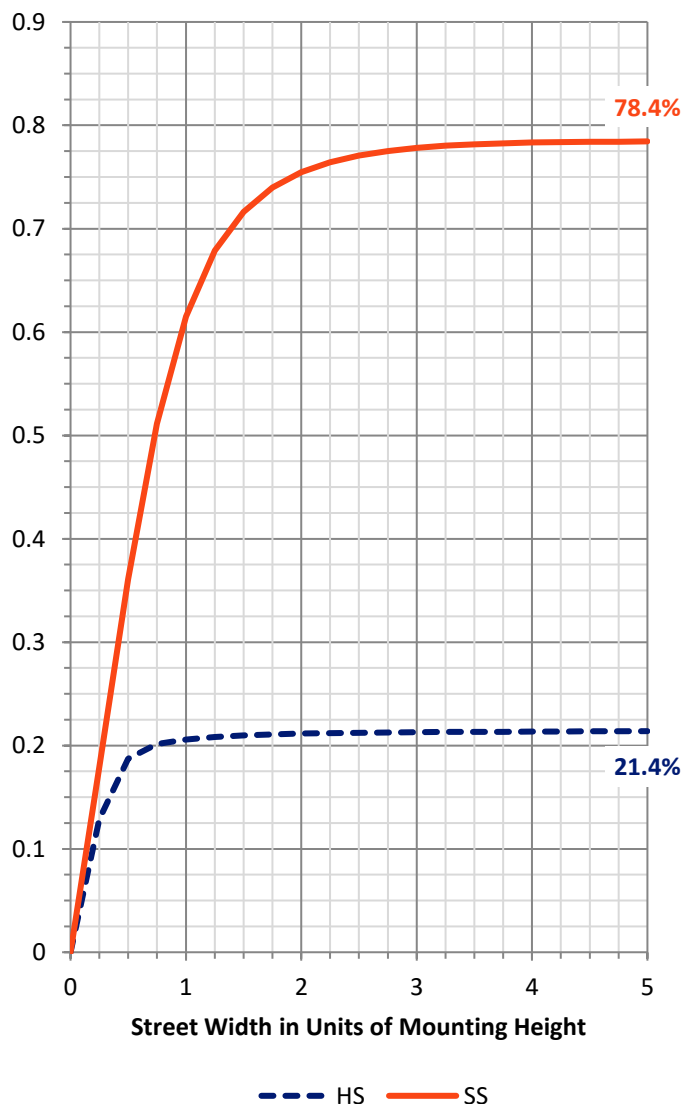
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.8	0.0	2167.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7840.3	0.0	7840.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	10008.0	0.0	10008.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	1.7
10°-20°	523.4	5.2
20°-30°	905.4	9.0
30°-40°	1329.7	13.3
40°-50°	1728.3	17.3
50°-60°	2003.9	20.0
60°-70°	2016.7	20.2
70°-80°	1228.9	12.3
80°-90°	97.9	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°	10008.0	100.0
0°-180°	10008.0	100.0



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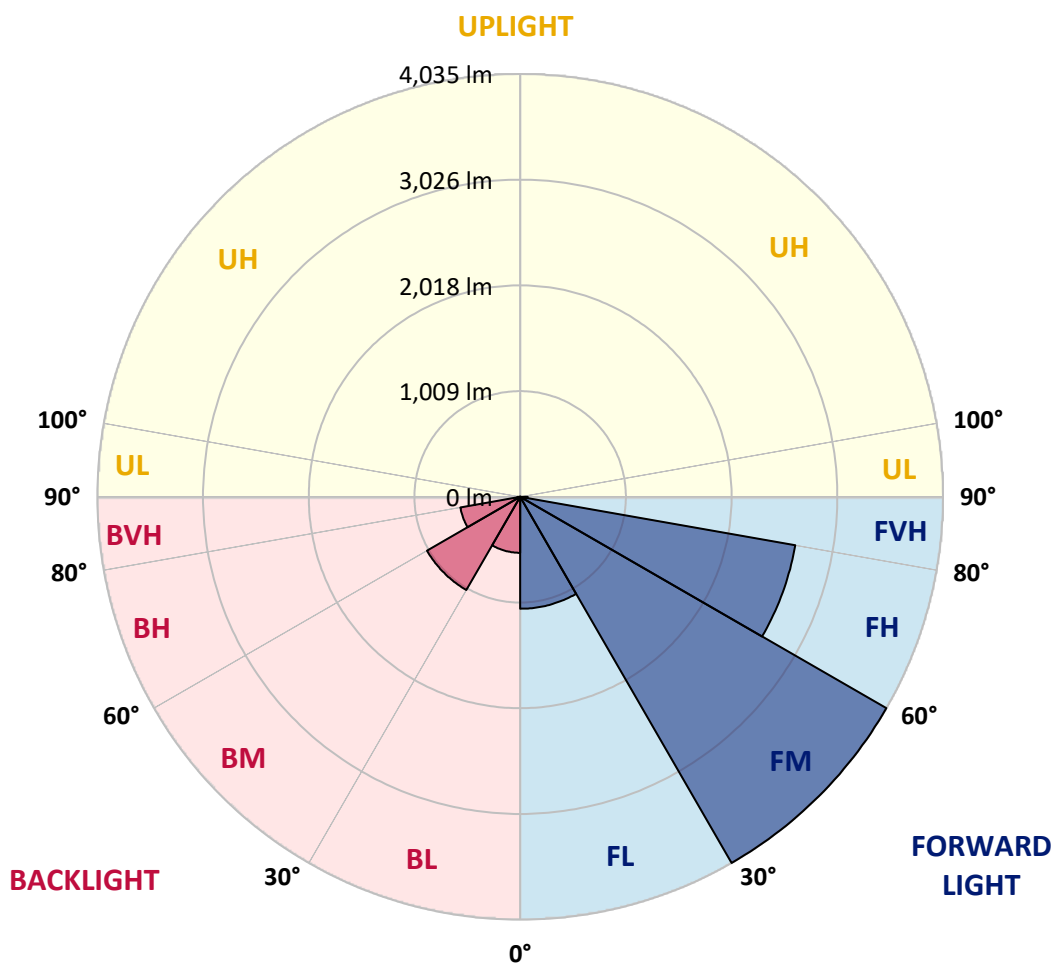
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.2	10.7			
FM (30°-60°)	4035.0	40.3			
FH (60°-80°)	2665.9	26.6			G2/5000
FVH (80°-90°)	71.1	0.7			G1/100
BL (0°-30°)	534.4	5.3	B2/1000		
BM (30°-60°)	1026.9	10.3	B2/2500		
BH (60°-80°)	579.7	5.8	B2/1000		G2/1000
BVH (80°-90°)	26.8	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°	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1940.3	1940.3	1937.2	1934.1	1921.9	1909.7	1891.4	1876.1	1860.8	1854.7	1830.3
5°	2053.3	2053.3	2050.3	2038.0	2022.8	2001.4	1970.8	1931.1	1903.6	1900.5	1857.8
7.5°	2148.0	2145.0	2141.9	2135.8	2120.5	2093.0	2047.2	1995.3	1949.4	1937.2	1885.3
10°	2239.7	2242.8	2236.6	2221.4	2203.0	2169.4	2123.6	2062.5	2007.5	1989.1	1909.7
12.5°	2337.5	2334.4	2325.3	2306.9	2282.5	2255.0	2206.1	2145.0	2071.6	2053.3	1949.4
15°	2420.0	2423.0	2407.8	2395.5	2371.1	2340.5	2297.8	2236.6	2163.3	2141.9	2007.5
17.5°	2493.3	2493.3	2490.3	2484.1	2465.8	2444.4	2401.6	2358.9	2282.5	2248.9	2096.1
20°	2548.3	2551.4	2557.5	2569.7	2572.8	2554.4	2533.0	2502.5	2429.1	2395.5	2206.1
22.5°	2597.2	2603.3	2627.7	2664.4	2695.0	2695.0	2691.9	2688.9	2615.5	2594.1	2368.0
25°	2609.4	2618.6	2673.6	2753.0	2801.9	2841.6	2896.6	2918.0	2863.0	2826.4	2578.9
27.5°	2627.7	2636.9	2698.0	2792.7	2915.0	3003.6	3101.4	3156.4	3116.6	3080.0	2820.2
30°	2612.5	2624.7	2691.9	2826.4	2988.3	3174.7	3296.9	3379.4	3367.2	3345.8	3070.8
32.5°	2572.8	2585.0	2664.4	2829.4	3076.9	3348.9	3486.4	3614.7	3648.3	3630.0	3333.6
35°	2493.3	2505.5	2603.3	2805.0	3119.7	3480.2	3675.8	3865.2	3941.6	3929.4	3620.8
37.5°	2392.5	2392.5	2508.6	2731.6	3135.0	3581.1	3843.8	4115.8	4265.5	4247.2	3911.1
40°	2224.4	2255.0	2398.6	2652.2	3110.5	3654.4	4005.8	4375.5	4561.9	4552.7	4225.8
42.5°	2056.4	2080.8	2218.3	2514.7	3052.5	3697.2	4140.2	4647.5	4888.8	4882.7	4528.3
45°	1906.6	1925.0	2038.0	2325.3	2930.2	3709.4	4268.6	4937.7	5249.4	5237.2	4836.9
47.5°	1714.1	1750.8	1894.4	2148.0	2762.2	3672.7	4387.7	5301.3	5640.5	5628.3	5169.9
50°	1298.6	1323.0	1622.5	2004.4	2545.3	3581.1	4485.5	5658.8	6010.2	5985.8	5472.4
52.5°	1179.4	1194.7	1289.4	1827.2	2343.6	3416.1	4546.6	6086.6	6386.0	6346.3	5784.1
55°	1103.0	1115.3	1170.3	1463.6	2166.4	3138.0	4565.0	6489.9	6688.5	6648.8	6071.3
57.5°	1035.8	1041.9	1096.9	1246.7	1955.5	2786.6	4500.8	6789.4	6954.4	6911.6	6318.8
60°	965.5	974.7	1026.7	1136.7	1701.9	2462.8	4302.2	7027.7	7174.4	7137.7	6535.8
62.5°	907.5	919.7	953.3	1048.0	1518.6	2187.8	3868.3	7082.7	7333.3	7305.8	6737.4
65°	837.2	846.4	889.2	968.6	1329.2	2016.6	3428.3	6920.8	7281.3	7314.9	6850.5
67.5°	754.7	763.9	800.5	861.7	1115.3	1836.4	3043.3	6691.6	7122.4	7168.3	6768.0
70°	653.9	660.0	696.7	754.7	925.8	1601.1	2640.0	6355.5	6737.4	6771.0	6441.0
72.5°	543.9	543.9	571.4	638.6	760.8	1326.1	2117.5	5646.6	6266.9	6349.4	5888.0
75°	229.2	241.4	290.3	351.4	485.8	968.6	1448.3	4348.0	5652.7	5723.0	5200.5
77.5°	45.8	48.9	55.0	82.5	128.3	421.7	449.2	1897.5	3923.3	3969.1	3798.0
80°	36.7	36.7	39.7	61.1	85.6	195.6	146.7	620.3	1222.2	1573.6	2028.9
82.5°	12.2	15.3	21.4	33.6	42.8	42.8	48.9	311.7	605.0	650.8	818.9
85°	6.1	6.1	9.2	12.2	12.2	12.2	12.2	55.0	103.9	125.3	174.2
87.5°	3.1	0.0	0.0	0.0	0.0	0.0	3.1	6.1	9.2	9.2	12.2
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°	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1818.0	1808.9	1787.5	1772.2	1750.8	1732.5	1711.1	1698.9	1692.8	1689.7	1683.6
5°	1833.3	1808.9	1766.1	1720.3	1680.5	1650.0	1607.2	1585.8	1573.6	1567.5	1564.4
7.5°	1851.6	1821.1	1747.8	1677.5	1607.2	1555.3	1503.3	1469.7	1454.4	1451.4	1448.3
10°	1863.9	1815.0	1717.2	1640.8	1549.2	1466.7	1405.5	1365.8	1344.4	1341.4	1338.3
12.5°	1888.3	1824.1	1692.8	1582.8	1488.0	1381.1	1316.9	1271.1	1249.7	1231.4	1231.4
15°	1928.0	1845.5	1680.5	1533.9	1408.6	1304.7	1222.2	1173.3	1158.0	1133.6	1127.5
17.5°	1995.3	1885.3	1671.4	1485.0	1335.3	1231.4	1133.6	1081.7	1072.5	1051.1	1038.9
20°	2077.8	1943.3	1677.5	1439.2	1258.9	1139.7	1041.9	990.0	959.4	941.1	935.0
22.5°	2209.1	2028.9	1698.9	1405.5	1191.7	1057.2	953.3	870.8	803.6	779.2	779.2
25°	2395.5	2175.5	1735.5	1378.0	1124.4	977.8	849.4	708.9	620.3	586.7	577.5
27.5°	2606.4	2361.9	1821.1	1353.6	1069.4	889.2	699.7	543.9	449.2	418.6	418.6
30°	2847.7	2557.5	1925.0	1338.3	1002.2	754.7	528.6	397.2	320.8	287.2	284.2
32.5°	3086.1	2759.1	2047.2	1326.1	931.9	589.7	381.9	290.3	226.1	201.7	204.7
35°	3324.4	2957.7	2151.1	1326.1	815.8	424.7	271.9	201.7	161.9	149.7	149.7
37.5°	3593.3	3180.8	2233.6	1307.8	641.7	302.5	186.4	146.7	134.4	128.3	128.3
40°	3871.3	3388.6	2288.6	1268.0	458.3	207.8	131.4	128.3	122.2	113.1	110.0
42.5°	4131.1	3626.9	2322.2	1191.7	299.4	137.5	116.1	119.2	116.1	100.8	97.8
45°	4406.1	3819.4	2340.5	1038.9	198.6	113.1	103.9	110.0	113.1	100.8	97.8
47.5°	4681.1	4030.2	2352.8	809.7	131.4	110.0	97.8	106.9	110.0	97.8	94.7
50°	4971.3	4222.7	2334.4	519.4	116.1	103.9	94.7	97.8	103.9	97.8	94.7
52.5°	5224.9	4396.9	2248.9	290.3	113.1	100.8	88.6	91.7	100.8	94.7	94.7
55°	5484.7	4568.0	2090.0	171.1	110.0	94.7	88.6	91.7	94.7	88.6	91.7
57.5°	5719.9	4733.0	1851.6	140.6	110.0	91.7	91.7	85.6	85.6	79.4	79.4
60°	5900.2	4882.7	1567.5	131.4	103.9	94.7	85.6	79.4	73.3	67.2	67.2
62.5°	6043.8	5011.1	1164.2	122.2	100.8	91.7	79.4	70.3	61.1	55.0	55.0
65°	6123.3	5038.6	821.9	110.0	94.7	88.6	73.3	61.1	48.9	45.8	45.8
67.5°	6031.6	4894.9	501.1	103.9	88.6	85.6	70.3	55.0	42.8	39.7	39.7
70°	5680.2	4510.0	281.1	94.7	79.4	76.4	64.2	48.9	39.7	33.6	33.6
72.5°	5099.7	3944.7	140.6	79.4	67.2	67.2	58.1	42.8	36.7	30.6	30.6
75°	4308.3	3235.8	100.8	58.1	55.0	55.0	48.9	39.7	33.6	27.5	27.5
77.5°	3156.4	2132.8	82.5	48.9	39.7	39.7	42.8	36.7	30.6	24.4	24.4
80°	1634.7	1057.2	70.3	36.7	33.6	30.6	30.6	30.6	24.4	21.4	21.4
82.5°	724.2	406.4	45.8	27.5	27.5	24.4	24.4	24.4	21.4	18.3	18.3
85°	140.6	76.4	24.4	21.4	18.3	18.3	18.3	15.3	15.3	15.3	15.3
87.5°	12.2	12.2	12.2	12.2	12.2	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)