

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: P507608

Luminaire Tested: **VERD-S-CA1-50-760-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507608
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-CA1-50-760-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 940mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

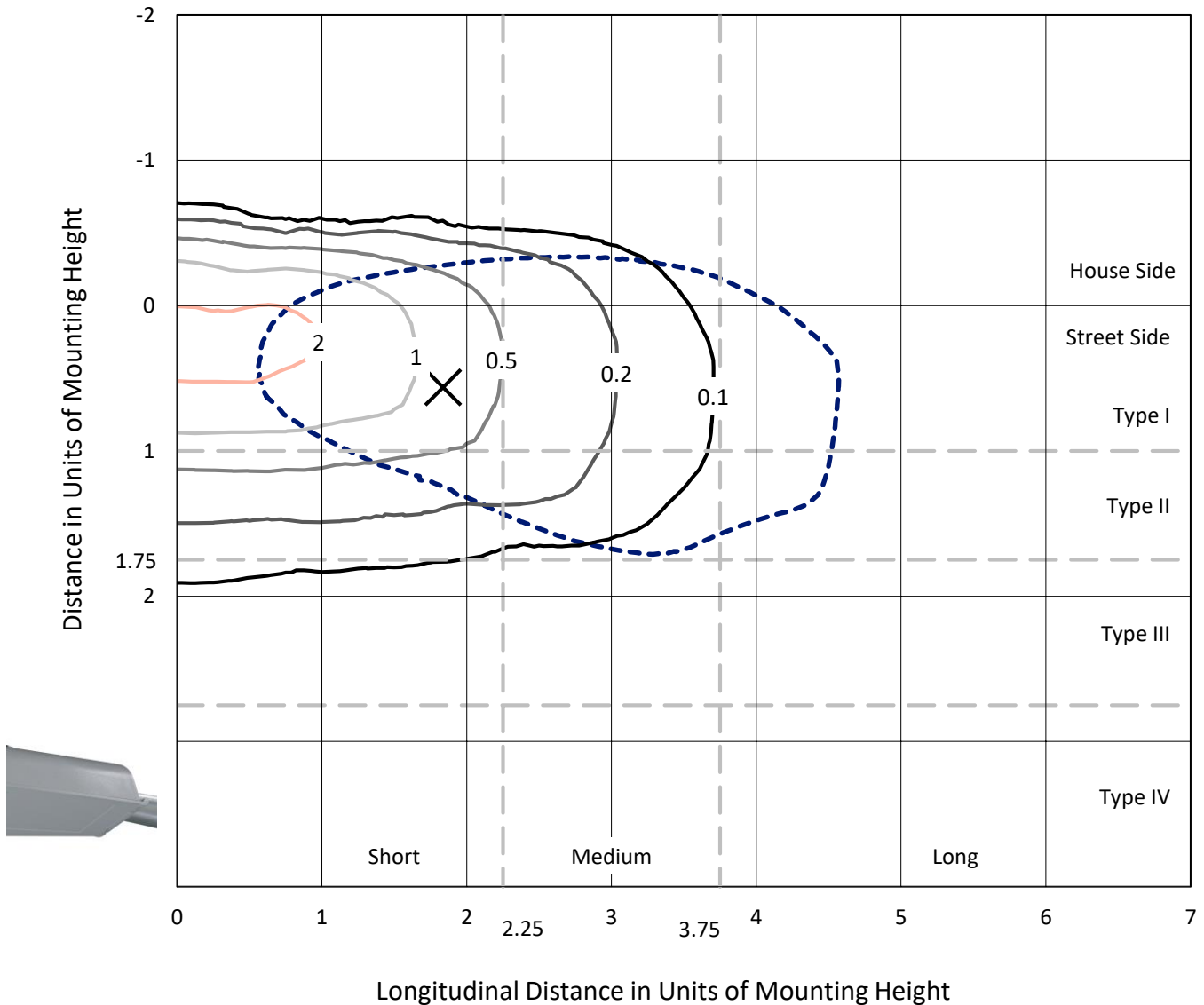
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

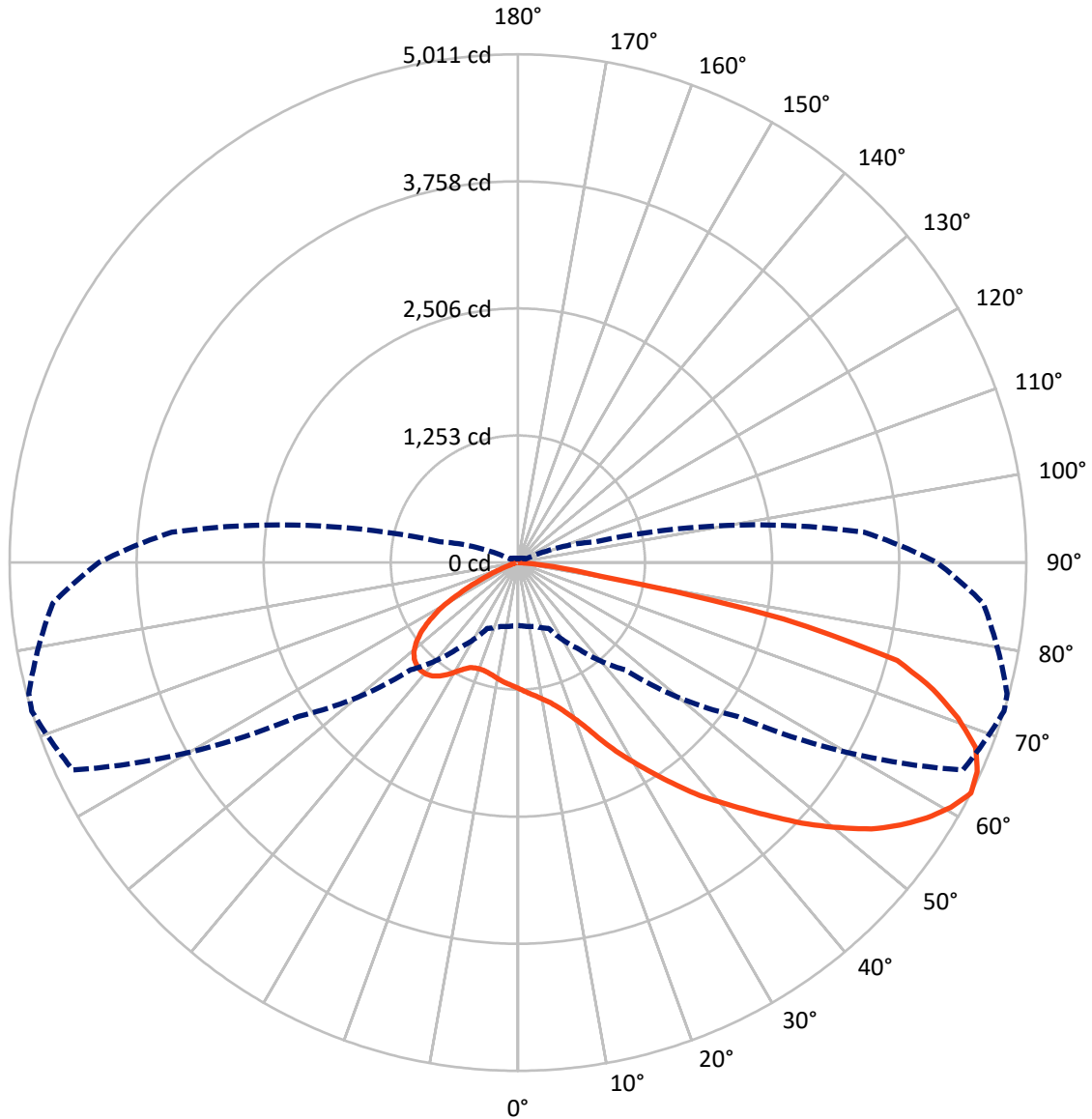
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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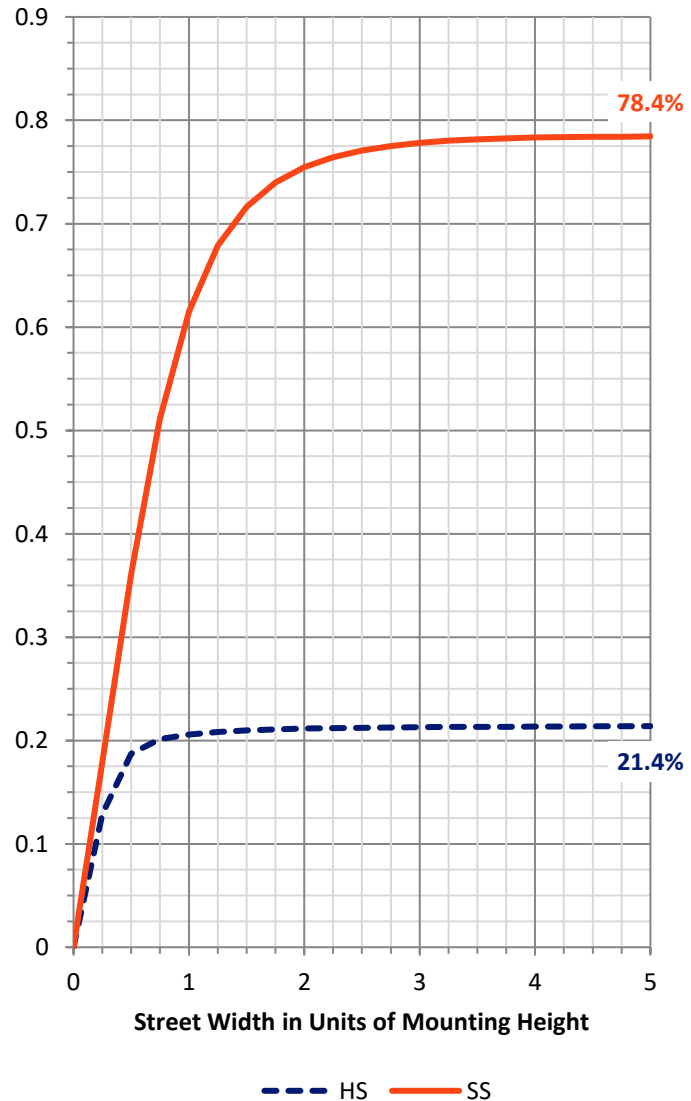
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1481.3	0.0	1481.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5357.7	0.0	5357.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	6839.0	0.0	6839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.7
10°-20°	357.7	5.2
20°-30°	618.7	9.0
30°-40°	908.6	13.3
40°-50°	1181.1	17.3
50°-60°	1369.3	20.0
60°-70°	1378.1	20.2
70°-80°	839.8	12.3
80°-90°	66.9	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°	6839.0	100.0
0°-180°	6839.0	100.0



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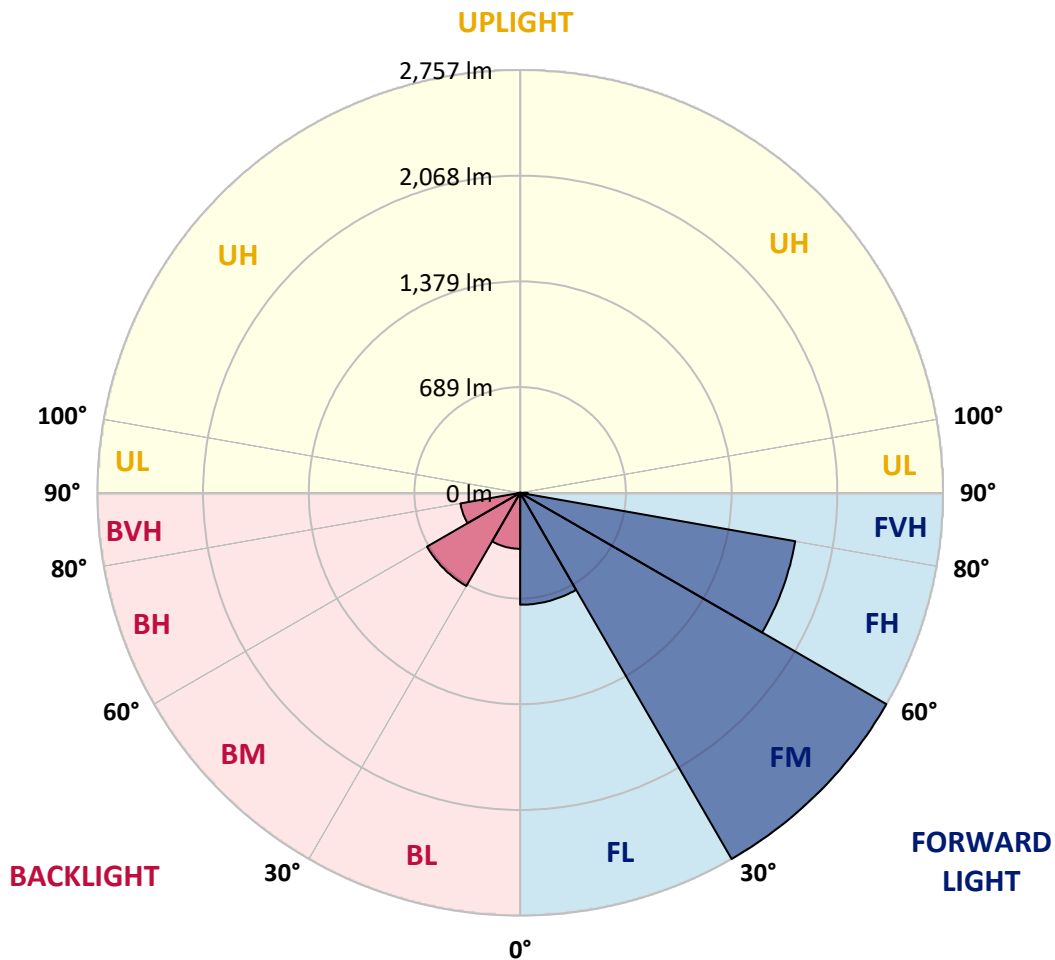
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.0	10.7			
FM	(30°-60°)	2757.3	40.3			
FH	(60°-80°)	1821.7	26.6			G2/5000
FVH	(80°-90°)	48.6	0.7			G1/100
BL	(0°-30°)	365.2	5.3	B1/500		
BM	(30°-60°)	701.7	10.3	B1/1000		
BH	(60°-80°)	396.2	5.8	B1/500		G1/500
BVH	(80°-90°)	18.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1325.9	1325.9	1323.8	1321.7	1313.4	1305.0	1292.5	1282.0	1271.6	1267.4	1250.7
5°	1403.1	1403.1	1401.0	1392.7	1382.3	1367.6	1346.8	1319.6	1300.8	1298.7	1269.5
7.5°	1467.9	1465.8	1463.7	1459.5	1449.1	1430.3	1399.0	1363.5	1332.1	1323.8	1288.3
10°	1530.5	1532.6	1528.4	1518.0	1505.4	1482.5	1451.2	1409.4	1371.8	1359.3	1305.0
12.5°	1597.3	1595.2	1589.0	1576.4	1559.7	1540.9	1507.5	1465.8	1415.7	1403.1	1332.1
15°	1653.7	1655.8	1645.3	1637.0	1620.3	1599.4	1570.2	1528.4	1478.3	1463.7	1371.8
17.5°	1703.8	1703.8	1701.7	1697.5	1685.0	1670.4	1641.2	1611.9	1559.7	1536.8	1432.4
20°	1741.4	1743.5	1747.7	1756.0	1758.1	1745.6	1731.0	1710.1	1660.0	1637.0	1507.5
22.5°	1774.8	1779.0	1795.7	1820.7	1841.6	1841.6	1839.5	1837.4	1787.3	1772.7	1618.2
25°	1783.2	1789.4	1827.0	1881.3	1914.7	1941.8	1979.4	1994.0	1956.5	1931.4	1762.3
27.5°	1795.7	1801.9	1843.7	1908.4	1992.0	2052.5	2119.3	2156.9	2129.8	2104.7	1927.2
30°	1785.2	1793.6	1839.5	1931.4	2042.1	2169.4	2253.0	2309.3	2301.0	2286.4	2098.4
32.5°	1758.1	1766.4	1820.7	1933.5	2102.6	2288.4	2382.4	2470.1	2493.1	2480.5	2278.0
35°	1703.8	1712.2	1779.0	1916.8	2131.8	2378.2	2511.9	2641.3	2693.5	2685.2	2474.3
37.5°	1634.9	1634.9	1714.2	1866.7	2142.3	2447.1	2626.7	2812.5	2914.9	2902.3	2672.6
40°	1520.1	1540.9	1639.1	1812.4	2125.6	2497.3	2737.4	2990.0	3117.4	3111.1	2887.7
42.5°	1405.2	1421.9	1515.9	1718.4	2085.9	2526.5	2829.2	3175.9	3340.8	3336.6	3094.4
45°	1302.9	1315.4	1392.7	1589.0	2002.4	2534.8	2916.9	3374.2	3587.2	3578.8	3305.3
47.5°	1171.4	1196.4	1294.6	1467.9	1887.6	2509.8	2998.4	3622.7	3854.5	3846.1	3532.9
50°	887.4	904.1	1108.7	1369.7	1739.3	2447.1	3065.2	3867.0	4107.1	4090.4	3739.6
52.5°	806.0	816.4	881.1	1248.6	1601.5	2334.4	3106.9	4159.3	4363.9	4336.8	3952.6
55°	753.8	762.1	799.7	1000.2	1480.4	2144.4	3119.5	4434.9	4570.6	4543.5	4148.9
57.5°	707.8	712.0	749.6	851.9	1336.3	1904.3	3075.6	4639.5	4752.3	4723.1	4318.0
60°	659.8	666.1	701.6	776.7	1163.0	1682.9	2939.9	4802.4	4902.6	4877.6	4466.2
62.5°	620.1	628.5	651.5	716.2	1037.7	1495.0	2643.4	4840.0	5011.2	4992.4	4604.0
65°	572.1	578.4	607.6	661.9	908.3	1378.1	2342.7	4729.3	4975.7	4998.7	4681.3
67.5°	515.7	522.0	547.1	588.8	762.1	1254.9	2079.6	4572.7	4867.1	4898.5	4624.9
70°	446.8	451.0	476.1	515.7	632.7	1094.1	1804.0	4343.0	4604.0	4627.0	4401.5
72.5°	371.7	371.7	390.5	436.4	519.9	906.2	1447.0	3858.6	4282.5	4338.9	4023.6
75°	156.6	165.0	198.4	240.1	332.0	661.9	989.7	2971.2	3862.8	3910.8	3553.8
77.5°	31.3	33.4	37.6	56.4	87.7	288.1	306.9	1296.6	2681.0	2712.3	2595.4
80°	25.1	25.1	27.1	41.8	58.5	133.6	100.2	423.9	835.2	1075.3	1386.4
82.5°	8.4	10.4	14.6	23.0	29.2	29.2	33.4	213.0	413.4	444.7	559.6
85°	4.2	4.2	6.3	8.4	8.4	8.4	8.4	37.6	71.0	85.6	119.0
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	2.1	4.2	6.3	6.3	8.4
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°	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1242.4	1236.1	1221.5	1211.0	1196.4	1183.9	1169.3	1160.9	1156.8	1154.7	1150.5
5°	1252.8	1236.1	1206.9	1175.5	1148.4	1127.5	1098.3	1083.7	1075.3	1071.1	1069.1
7.5°	1265.3	1244.4	1194.3	1146.3	1098.3	1062.8	1027.3	1004.3	993.9	991.8	989.7
10°	1273.7	1240.3	1173.5	1121.3	1058.6	1002.2	960.5	933.3	918.7	916.6	914.5
12.5°	1290.4	1246.5	1156.8	1081.6	1016.9	943.8	899.9	868.6	854.0	841.5	841.5
15°	1317.5	1261.2	1148.4	1048.2	962.6	891.6	835.2	801.8	791.4	774.6	770.5
17.5°	1363.5	1288.3	1142.1	1014.8	912.5	841.5	774.6	739.2	732.9	718.3	709.9
20°	1419.8	1328.0	1146.3	983.4	860.3	778.8	712.0	676.5	655.6	643.1	638.9
22.5°	1509.6	1386.4	1160.9	960.5	814.3	722.4	651.5	595.1	549.1	532.4	532.4
25°	1637.0	1486.7	1186.0	941.7	768.4	668.2	580.5	484.4	423.9	400.9	394.6
27.5°	1781.1	1614.0	1244.4	925.0	730.8	607.6	478.2	371.7	306.9	286.1	286.1
30°	1946.0	1747.7	1315.4	914.5	684.9	515.7	361.2	271.4	219.2	196.3	194.2
32.5°	2108.9	1885.5	1399.0	906.2	636.8	403.0	261.0	198.4	154.5	137.8	139.9
35°	2271.7	2021.2	1470.0	906.2	557.5	290.2	185.8	137.8	110.7	102.3	102.3
37.5°	2455.5	2173.6	1526.3	893.7	438.5	206.7	127.4	100.2	91.9	87.7	87.7
40°	2645.5	2315.6	1563.9	866.5	313.2	142.0	89.8	87.7	83.5	77.3	75.2
42.5°	2823.0	2478.5	1586.9	814.3	204.6	94.0	79.3	81.4	79.3	68.9	66.8
45°	3010.9	2610.0	1599.4	709.9	135.7	77.3	71.0	75.2	77.3	68.9	66.8
47.5°	3198.8	2754.1	1607.8	553.3	89.8	75.2	66.8	73.1	75.2	66.8	64.7
50°	3397.2	2885.6	1595.2	355.0	79.3	71.0	64.7	66.8	71.0	66.8	64.7
52.5°	3570.5	3004.6	1536.8	198.4	77.3	68.9	60.6	62.6	68.9	64.7	64.7
55°	3748.0	3121.6	1428.2	116.9	75.2	64.7	60.6	62.6	64.7	60.6	62.6
57.5°	3908.7	3234.3	1265.3	96.0	75.2	62.6	62.6	58.5	58.5	54.3	54.3
60°	4031.9	3336.6	1071.1	89.8	71.0	64.7	58.5	54.3	50.1	45.9	45.9
62.5°	4130.1	3424.3	795.5	83.5	68.9	62.6	54.3	48.0	41.8	37.6	37.6
65°	4184.4	3443.1	561.7	75.2	64.7	60.6	50.1	41.8	33.4	31.3	31.3
67.5°	4121.7	3345.0	342.4	71.0	60.6	58.5	48.0	37.6	29.2	27.1	27.1
70°	3881.6	3081.9	192.1	64.7	54.3	52.2	43.8	33.4	27.1	23.0	23.0
72.5°	3484.9	2695.6	96.0	54.3	45.9	45.9	39.7	29.2	25.1	20.9	20.9
75°	2944.1	2211.2	68.9	39.7	37.6	37.6	33.4	27.1	23.0	18.8	18.8
77.5°	2156.9	1457.4	56.4	33.4	27.1	27.1	29.2	25.1	20.9	16.7	16.7
80°	1117.1	722.4	48.0	25.1	23.0	20.9	20.9	20.9	16.7	14.6	14.6
82.5°	494.9	277.7	31.3	18.8	18.8	16.7	16.7	16.7	14.6	12.5	12.5
85°	96.0	52.2	16.7	14.6	12.5	12.5	12.5	10.4	10.4	10.4	10.4
87.5°	8.4	8.4	8.4	8.4	8.4	6.3	6.3	6.3	6.3	6.3	6.3
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)