

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: P507617

Luminaire Tested: **VERD-S-CA1-60-722-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-722-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1150mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7117 lumens
Efficiency: N/A
Efficacy: 112.4 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): 63.3
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

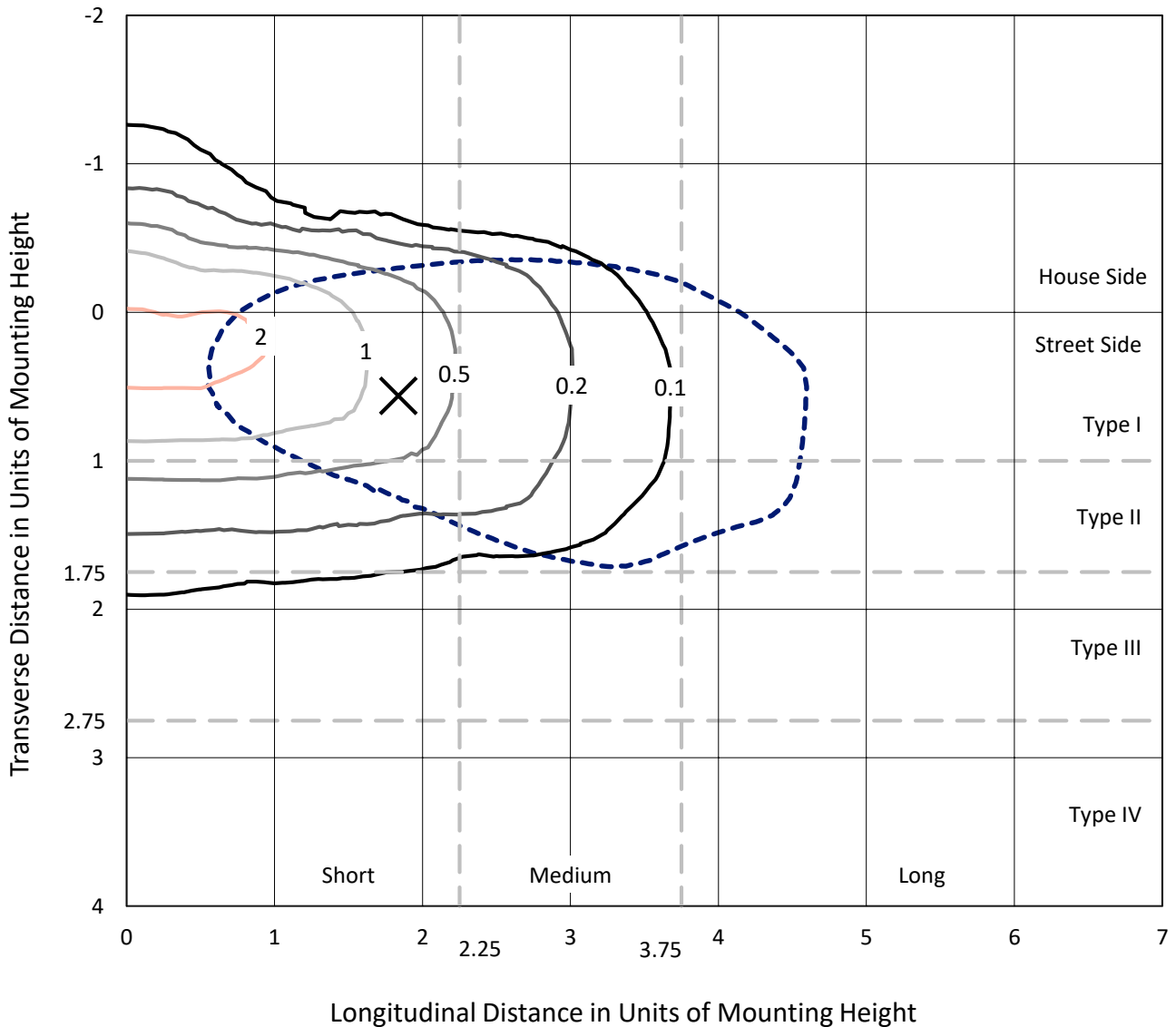


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Iso-Footcandle Lines of Horizontal Illumination

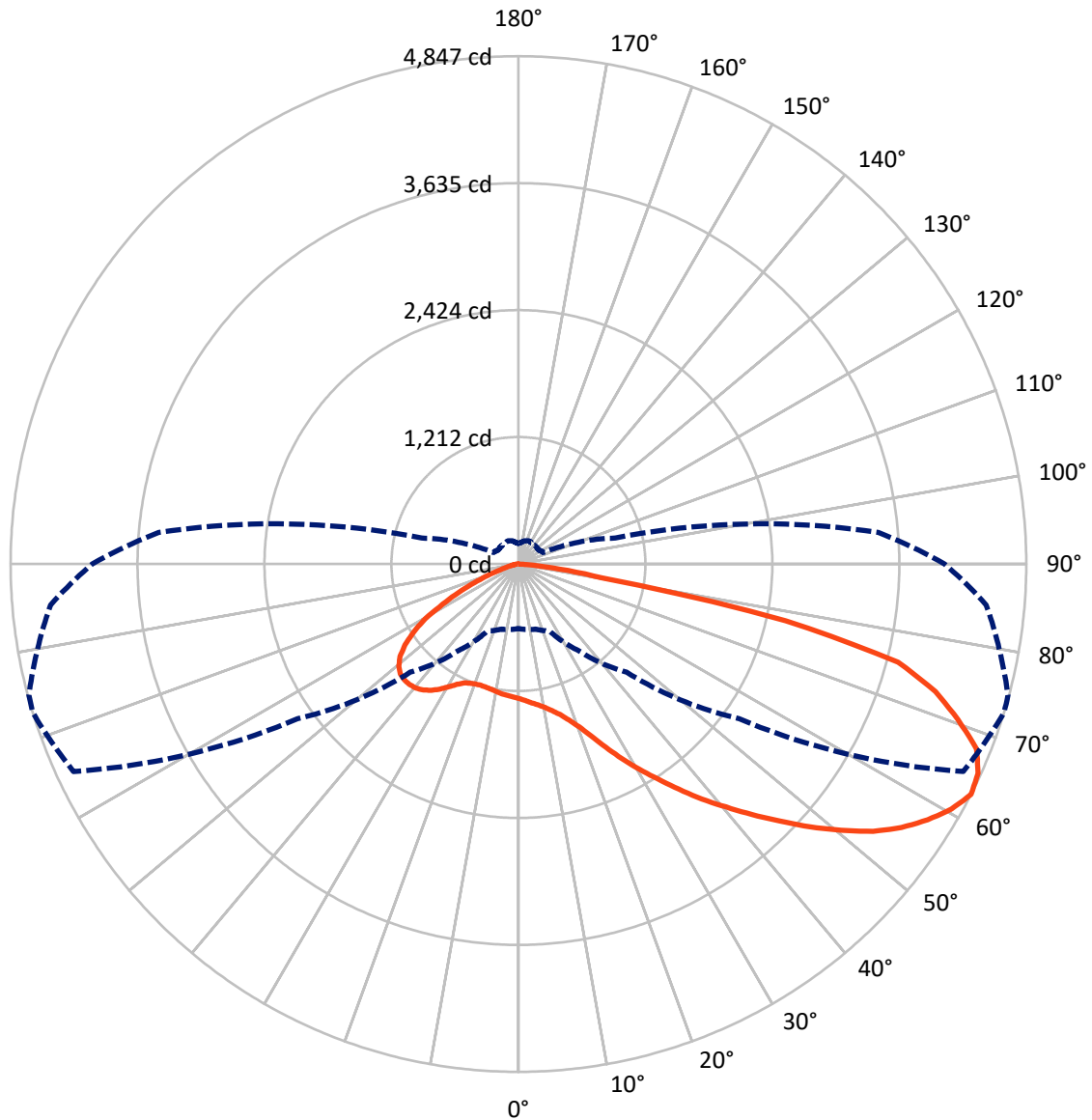
× Max cd
 - - - 1/2 Max cd



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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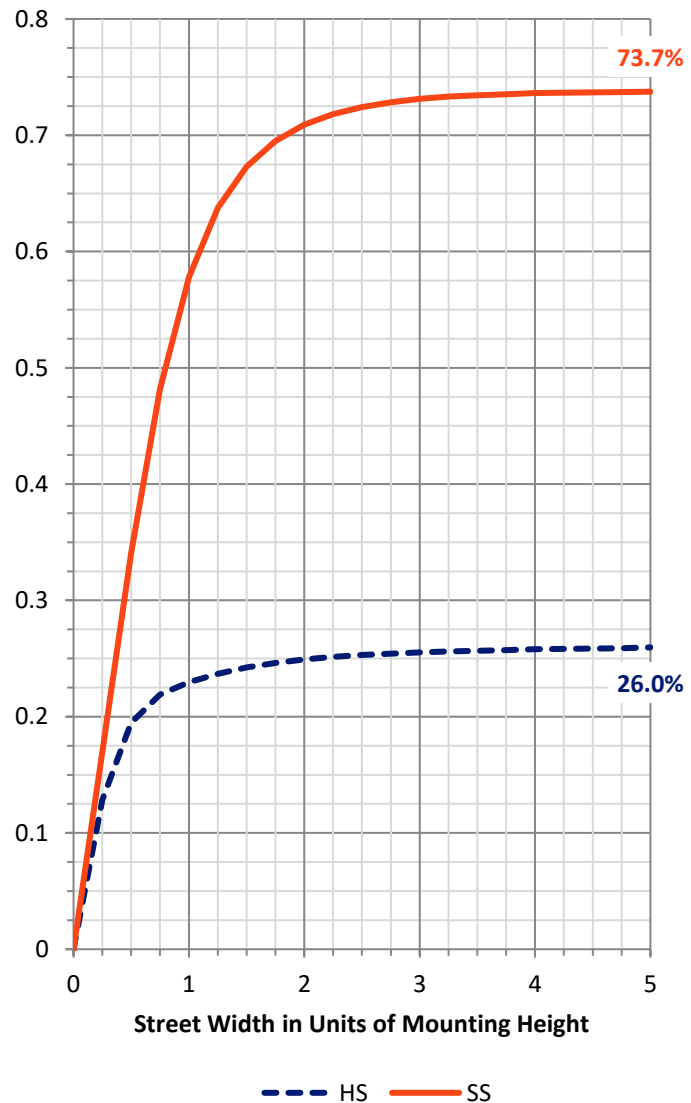
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.7	0.0	1874.7
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	5242.3	0.0	5242.3
	% Fixture	73.7	0.0	73.7
Total	Lumens	7117.0	0.0	7117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.7
10°-20°	379.8	5.3
20°-30°	657.4	9.2
30°-40°	952.0	13.4
40°-50°	1219.4	17.1
50°-60°	1411.7	19.8
60°-70°	1421.6	20.0
70°-80°	869.1	12.2
80°-90°	81.8	1.1
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°	7117.0	100.0
0°-180°	7117.0	100.0



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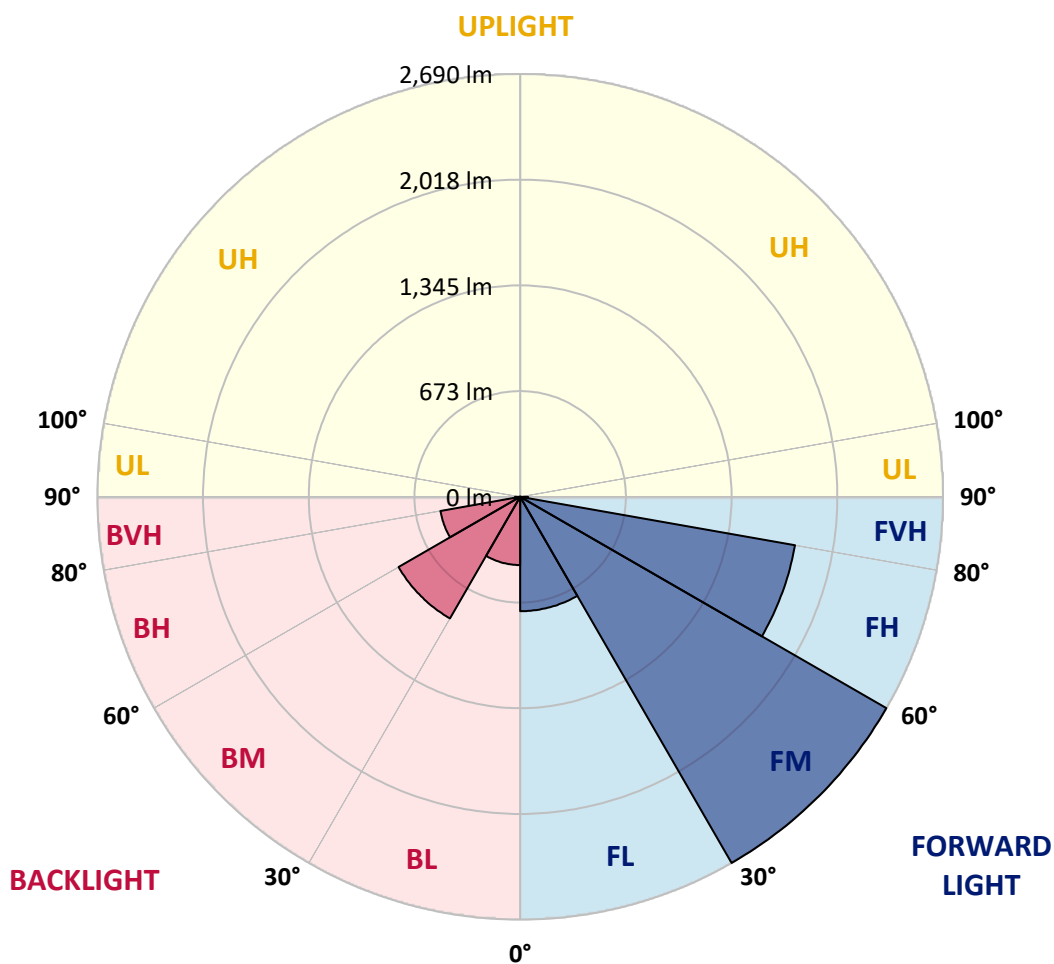
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.4	10.2			
FM (30°-60°)	2690.0	37.8			
FH (60°-80°)	1775.4	24.9			G1/1800
FVH (80°-90°)	49.4	0.7			G1/100
BL (0°-30°)	434.0	6.1	B1/500		
BM (30°-60°)	893.1	12.5	B1/1000		
BH (60°-80°)	515.3	7.2	B2/1000		G2/1000
BVH (80°-90°)	32.4	0.5			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°	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1351.7	1349.7	1345.7	1343.7	1339.7	1329.7	1323.6	1313.6	1305.6	1303.6	1291.6
5°	1417.9	1419.9	1417.9	1411.9	1403.9	1389.8	1369.8	1343.7	1331.7	1327.7	1307.6
7.5°	1480.1	1480.1	1478.1	1470.0	1462.0	1444.0	1415.9	1385.8	1357.7	1349.7	1323.6
10°	1540.2	1540.2	1534.2	1526.2	1514.2	1492.1	1464.0	1425.9	1391.8	1379.8	1335.7
12.5°	1604.4	1602.4	1594.4	1582.4	1566.3	1548.3	1518.2	1476.1	1438.0	1423.9	1361.7
15°	1654.5	1654.5	1648.5	1640.5	1626.5	1604.4	1576.3	1540.2	1490.1	1478.1	1397.8
17.5°	1698.7	1700.7	1696.7	1696.7	1684.6	1668.6	1644.5	1614.4	1566.3	1548.3	1452.0
20°	1734.8	1732.8	1740.8	1746.8	1750.8	1740.8	1726.7	1706.7	1658.6	1640.5	1522.2
22.5°	1750.8	1754.8	1778.9	1809.0	1827.0	1829.0	1827.0	1825.0	1782.9	1758.8	1618.5
25°	1758.8	1764.9	1801.0	1853.1	1893.2	1923.3	1955.4	1975.4	1937.3	1919.3	1762.8
27.5°	1766.9	1772.9	1815.0	1879.2	1955.4	2027.6	2091.8	2129.9	2101.8	2079.7	1911.3
30°	1752.8	1758.8	1807.0	1897.2	2005.5	2131.9	2222.1	2276.3	2272.2	2258.2	2081.7
32.5°	1722.7	1728.8	1782.9	1895.2	2057.7	2238.2	2338.4	2428.7	2446.7	2432.7	2252.2
35°	1668.6	1676.6	1738.8	1871.1	2081.7	2326.4	2460.8	2593.1	2639.3	2641.3	2438.7
37.5°	1594.4	1598.4	1674.6	1825.0	2089.7	2388.6	2563.0	2751.6	2845.8	2847.8	2629.2
40°	1494.1	1504.1	1598.4	1766.9	2071.7	2432.7	2665.3	2924.0	3048.4	3034.3	2835.8
42.5°	1379.8	1387.8	1480.1	1674.6	2029.6	2458.8	2759.6	3104.5	3269.0	3261.0	3030.3
45°	1277.5	1289.5	1359.7	1546.3	1949.4	2464.8	2841.8	3285.0	3497.6	3487.6	3228.9
47.5°	1141.1	1171.2	1265.5	1431.9	1829.0	2438.7	2916.0	3529.7	3750.3	3736.3	3437.5
50°	878.4	888.4	1087.0	1335.7	1692.7	2374.5	2980.2	3756.3	3995.0	3985.0	3656.1
52.5°	792.2	800.2	864.4	1225.4	1556.3	2260.2	3018.3	4047.1	4239.7	4211.6	3852.6
55°	744.0	752.1	788.2	978.7	1438.0	2087.7	3026.3	4293.8	4438.2	4412.1	4037.1
57.5°	699.9	705.9	740.0	838.3	1301.6	1849.1	2984.2	4492.4	4606.7	4580.6	4203.6
60°	653.8	659.8	695.9	762.1	1133.1	1630.5	2845.8	4646.8	4749.1	4723.0	4354.0
62.5°	615.7	625.7	643.8	705.9	1012.8	1460.0	2575.1	4684.9	4847.3	4837.3	4482.3
65°	569.6	573.6	601.7	651.8	894.5	1341.7	2284.3	4574.6	4821.3	4839.3	4558.5
67.5°	517.4	519.4	545.5	581.6	748.1	1225.4	2025.6	4426.2	4717.0	4747.1	4502.4
70°	447.2	449.2	473.3	511.4	619.7	1062.9	1758.8	4207.6	4450.2	4478.3	4285.8
72.5°	373.0	373.0	393.1	435.2	511.4	880.4	1407.9	3728.3	4163.4	4209.6	3932.8
75°	162.4	168.5	202.6	242.7	330.9	647.8	960.6	2885.9	3742.3	3774.4	3447.5
77.5°	44.1	44.1	52.1	68.2	96.3	288.8	304.8	1269.5	2607.2	2689.4	2549.0
80°	36.1	36.1	40.1	52.1	66.2	142.4	102.3	409.1	806.2	1062.9	1321.6
82.5°	20.1	20.1	24.1	30.1	36.1	36.1	36.1	208.6	397.1	423.2	553.5
85°	10.0	12.0	12.0	14.0	14.0	12.0	12.0	42.1	76.2	86.2	132.4
87.5°	4.0	4.0	4.0	4.0	2.0	2.0	4.0	6.0	6.0	8.0	10.0
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°	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1287.5	1281.5	1273.5	1267.5	1255.5	1243.4	1235.4	1229.4	1227.4	1225.4	1225.4
5°	1295.6	1285.5	1263.5	1241.4	1223.4	1207.3	1193.3	1183.3	1179.2	1177.2	1177.2
7.5°	1307.6	1293.6	1257.5	1225.4	1193.3	1169.2	1147.2	1133.1	1125.1	1127.1	1133.1
10°	1313.6	1291.6	1243.4	1211.3	1169.2	1131.1	1105.0	1089.0	1083.0	1083.0	1081.0
12.5°	1329.7	1297.6	1233.4	1183.3	1147.2	1095.0	1064.9	1050.9	1042.9	1030.8	1026.8
15°	1353.7	1313.6	1229.4	1163.2	1107.0	1060.9	1020.8	1000.8	994.7	978.7	978.7
17.5°	1397.8	1341.7	1229.4	1141.1	1068.9	1024.8	972.7	944.6	940.6	930.6	928.6
20°	1450.0	1379.8	1239.4	1119.1	1028.8	970.7	912.5	884.4	874.4	864.4	864.4
22.5°	1532.2	1438.0	1257.5	1103.0	986.7	914.5	850.3	810.2	794.2	792.2	788.2
25°	1658.6	1530.2	1285.5	1087.0	944.6	852.3	788.2	736.0	710.0	705.9	703.9
27.5°	1796.9	1656.6	1341.7	1073.0	898.5	782.2	705.9	649.8	617.7	613.7	611.7
30°	1945.3	1786.9	1415.9	1060.9	840.3	701.9	615.7	561.5	531.5	523.4	525.4
32.5°	2107.8	1927.3	1496.1	1050.9	778.1	597.6	517.4	481.3	449.2	435.2	437.2
35°	2266.2	2051.6	1566.3	1042.9	695.9	503.4	441.2	403.1	371.0	353.0	353.0
37.5°	2444.7	2198.0	1624.5	1026.8	607.7	439.2	379.0	340.9	316.9	300.8	300.8
40°	2619.2	2344.4	1670.6	996.7	509.4	387.1	312.9	290.8	274.8	264.7	260.7
42.5°	2789.7	2490.8	1700.7	946.6	427.2	324.9	260.7	258.7	260.7	250.7	248.7
45°	2966.2	2635.2	1722.7	866.4	369.0	268.7	232.6	246.7	260.7	256.7	256.7
47.5°	3158.7	2775.6	1740.8	736.0	312.9	236.7	230.6	244.7	262.7	264.7	264.7
50°	3343.2	2918.0	1734.8	569.6	274.8	234.6	232.6	236.7	260.7	266.7	262.7
52.5°	3515.7	3040.4	1686.6	415.1	256.7	238.7	238.7	234.6	254.7	258.7	260.7
55°	3690.1	3154.7	1578.3	328.9	246.7	238.7	248.7	238.7	244.7	246.7	250.7
57.5°	3848.6	3271.0	1417.9	294.8	244.7	238.7	248.7	242.7	242.7	234.6	232.6
60°	3970.9	3367.3	1223.4	280.8	238.7	240.7	244.7	244.7	238.7	220.6	214.6
62.5°	4067.2	3447.5	956.6	262.7	234.6	236.7	234.6	242.7	228.6	202.6	196.5
65°	4121.3	3461.5	732.0	242.7	224.6	232.6	226.6	224.6	212.6	184.5	172.5
67.5°	4061.2	3363.2	511.4	222.6	212.6	226.6	216.6	208.6	194.5	168.5	152.4
70°	3828.5	3078.5	336.9	196.5	196.5	212.6	204.6	192.5	174.5	154.4	136.4
72.5°	3391.3	2653.3	202.6	162.4	174.5	194.5	190.5	174.5	122.3	94.3	82.2
75°	2867.9	2180.0	130.4	122.3	142.4	174.5	176.5	156.4	104.3	84.2	84.2
77.5°	2083.7	1431.9	76.2	68.2	94.3	140.4	150.4	114.3	112.3	156.4	114.3
80°	1068.9	693.9	58.2	42.1	50.1	104.3	84.2	86.2	170.5	126.3	80.2
82.5°	463.3	274.8	36.1	30.1	32.1	52.1	54.1	142.4	132.4	74.2	50.1
85°	98.3	52.1	20.1	20.1	20.1	24.1	30.1	154.4	82.2	38.1	16.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0	6.0	6.0
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)