

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: P129295

Luminaire Tested: **VERD-A01-E-U-T2-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-A01-E-U-T2-7030-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K LED AND TYPE II OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5713 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

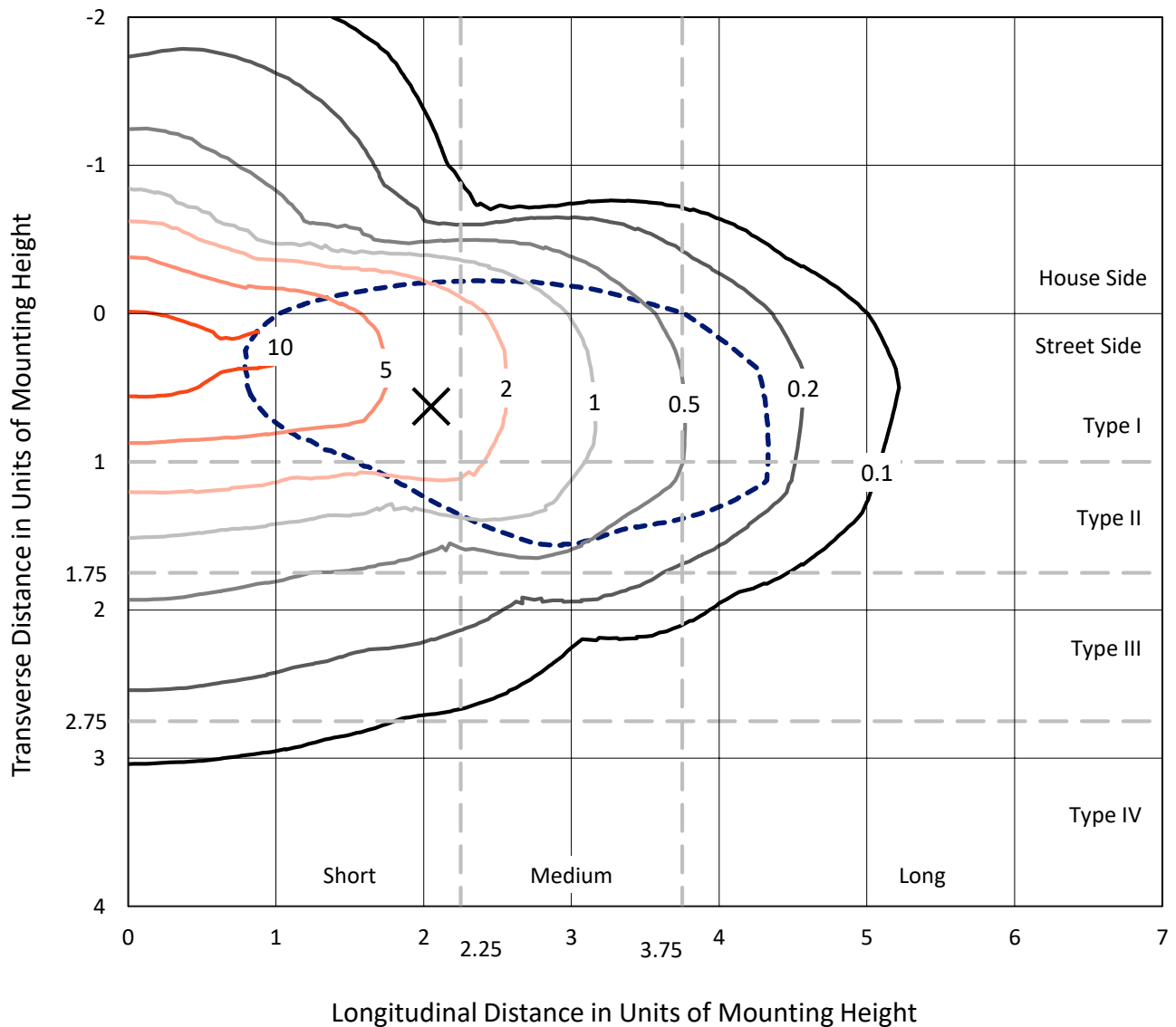
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

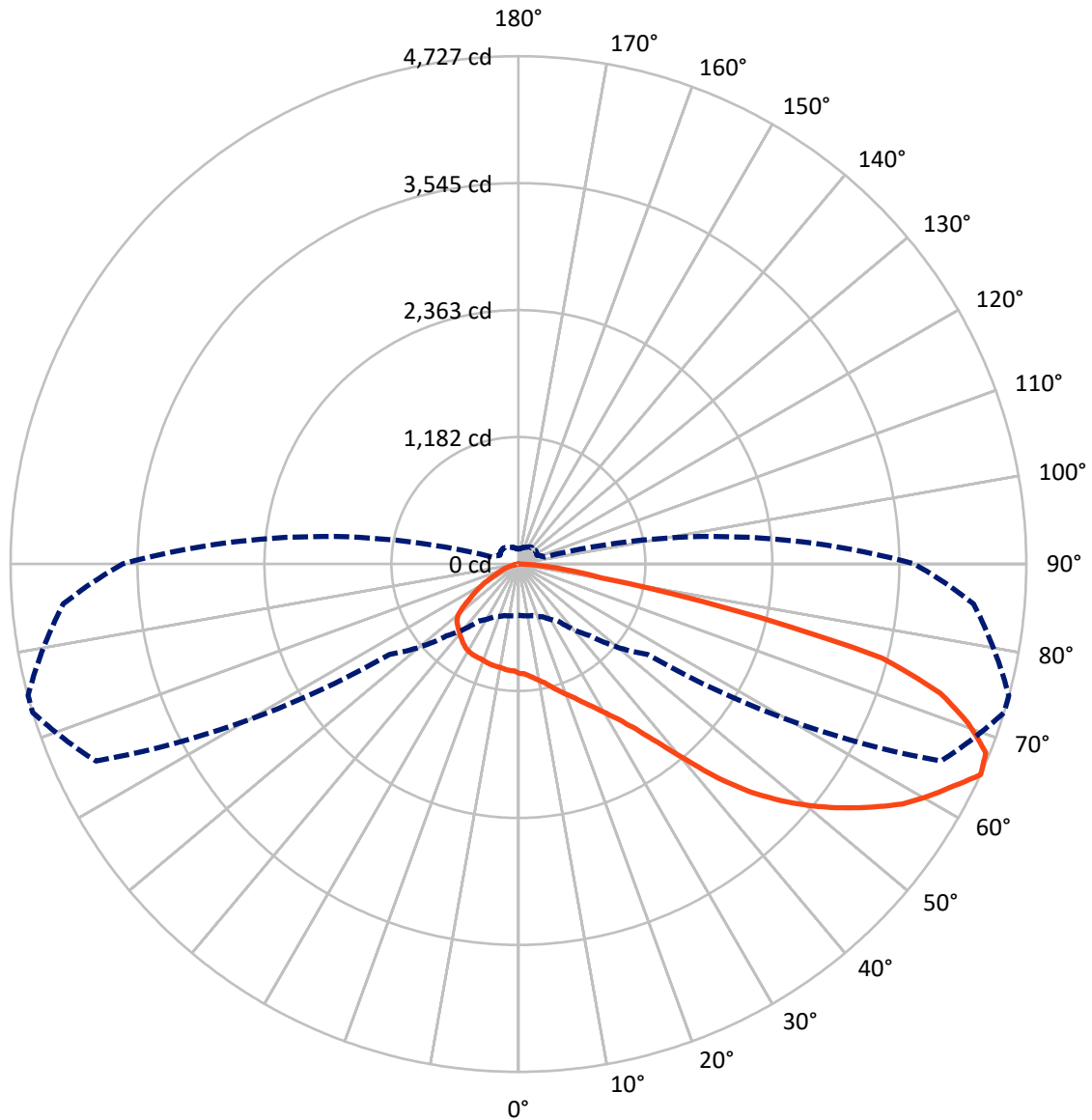
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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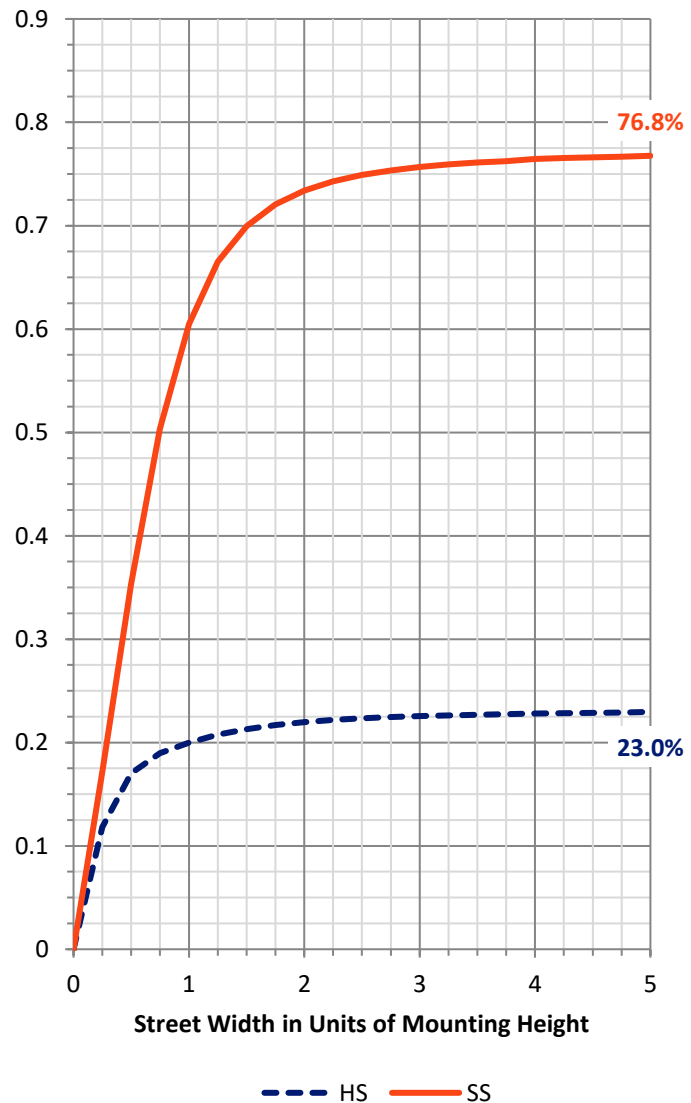
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.6	0.0	1330.6
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4382.4	0.0	4382.4
	% Fixture	76.7	0.0	76.7
Total	Lumens	5713.0	0.0	5713.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.7
10°-20°	305.9	5.4
20°-30°	513.6	9.0
30°-40°	703.5	12.3
40°-50°	938.6	16.4
50°-60°	1127.4	19.7
60°-70°	1199.8	21.0
70°-80°	743.5	13.0
80°-90°	82.4	1.4
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°	5713.0	100.0
0°-180°	5713.0	100.0



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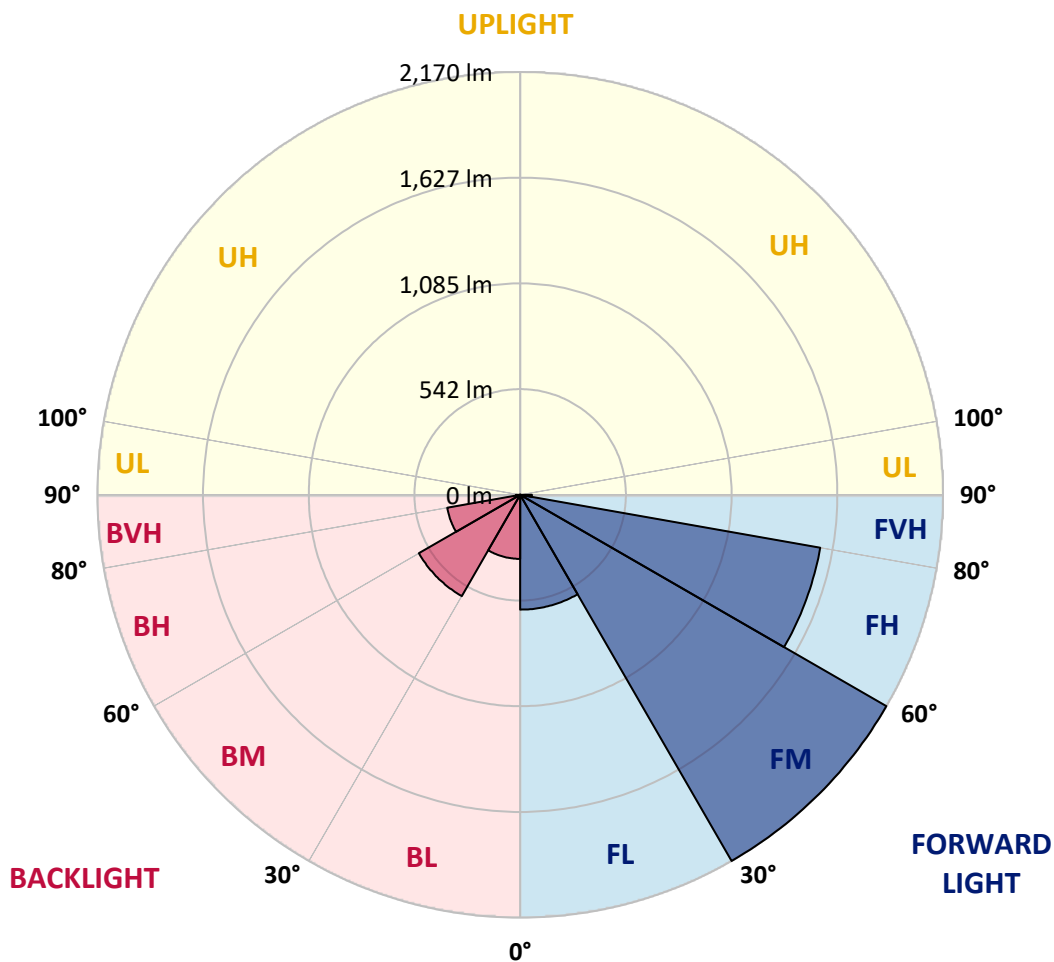
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.2	10.3			
FM	(30°-60°)	2169.5	38.0			
FH	(60°-80°)	1563.2	27.4			G1/1800
FVH	(80°-90°)	60.4	1.1			G1/100
BL	(0°-30°)	328.7	5.8	B1/500		
BM	(30°-60°)	599.9	10.5	B1/1000		
BH	(60°-80°)	380.0	6.7	B1/500		G1/500
BVH	(80°-90°)	22.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1083.7	1081.3	1081.9	1079.4	1072.1	1064.1	1048.7	1035.8	1022.3	1019.8	1013.7
5°	1136.6	1135.4	1136.0	1132.3	1121.2	1107.1	1085.0	1064.1	1045.0	1040.1	1029.0
7.5°	1185.8	1185.8	1184.5	1178.4	1165.5	1147.7	1126.2	1099.1	1073.3	1066.5	1048.7
10°	1255.2	1252.2	1251.6	1241.1	1217.7	1193.2	1168.0	1137.2	1104.0	1094.2	1062.2
12.5°	1327.8	1324.7	1325.9	1311.2	1285.4	1244.8	1218.4	1182.1	1141.5	1131.1	1088.0
15°	1400.3	1394.8	1396.6	1383.7	1357.3	1320.4	1276.8	1236.2	1191.9	1179.6	1118.8
17.5°	1457.5	1453.8	1457.5	1448.3	1424.3	1389.9	1339.5	1296.4	1244.2	1230.7	1152.6
20°	1496.2	1496.8	1504.8	1502.4	1485.1	1453.2	1404.0	1357.9	1297.0	1282.3	1190.7
22.5°	1519.0	1521.4	1539.2	1554.6	1549.1	1512.2	1472.8	1421.2	1357.3	1342.5	1233.1
25°	1525.1	1528.8	1563.8	1603.8	1609.3	1580.4	1546.6	1490.1	1431.7	1415.7	1287.8
27.5°	1539.2	1542.3	1577.3	1622.8	1656.6	1643.7	1621.0	1565.7	1513.4	1495.6	1349.9
30°	1522.6	1525.1	1563.2	1623.5	1683.1	1701.5	1696.0	1652.3	1611.8	1591.5	1416.3
32.5°	1439.7	1450.1	1503.6	1605.0	1704.6	1758.1	1772.8	1753.8	1728.0	1705.2	1496.2
35°	1359.1	1366.5	1435.4	1562.0	1702.8	1805.4	1858.9	1887.8	1885.3	1862.6	1625.3
37.5°	1293.4	1302.0	1357.9	1499.9	1685.5	1850.9	1955.4	2057.4	2103.5	2089.4	1849.1
40°	1215.3	1225.7	1276.8	1417.5	1645.0	1879.2	2075.9	2247.4	2384.5	2392.5	2134.9
42.5°	1117.5	1134.1	1180.2	1312.4	1586.6	1895.2	2195.7	2457.6	2720.1	2725.0	2401.7
45°	1030.9	1044.4	1088.0	1201.8	1502.4	1896.4	2304.6	2685.1	3025.0	3020.7	2641.4
47.5°	947.9	965.7	1009.4	1108.3	1386.8	1871.2	2389.4	2915.0	3289.9	3281.9	2883.0
50°	725.4	746.3	898.7	1021.0	1251.6	1801.7	2449.0	3151.0	3538.9	3529.1	3112.3
52.5°	656.5	660.8	706.3	923.9	1150.1	1668.3	2465.0	3396.9	3770.0	3751.0	3315.1
55°	622.1	622.1	643.6	760.4	1023.5	1460.6	2415.8	3634.2	3993.2	3971.6	3519.8
57.5°	579.7	580.9	611.6	666.3	901.2	1262.0	2283.0	3867.8	4213.2	4190.5	3718.4
60°	545.2	547.1	575.4	622.1	778.8	1099.1	2021.8	4069.4	4386.6	4362.0	3921.2
62.5°	515.1	517.0	536.6	585.2	712.5	1012.4	1749.5	4181.9	4548.9	4537.8	4111.2
65°	477.0	483.2	496.7	541.6	647.9	943.6	1466.1	4338.6	4726.5	4724.7	4251.3
67.5°	429.1	434.6	447.5	488.1	586.4	864.3	1294.6	4461.6	4691.5	4690.2	4236.0
70°	371.9	371.9	391.0	428.5	511.4	764.7	1138.4	4125.3	4441.9	4433.3	3945.8
72.5°	308.6	309.2	328.3	365.8	432.1	635.6	876.0	3517.4	4103.8	4124.1	3498.3
75°	265.6	266.2	282.8	317.2	367.0	505.3	614.1	1879.2	3498.9	3514.9	2944.5
77.5°	158.6	155.5	177.7	203.5	233.0	290.8	378.7	953.4	1998.4	2308.2	2152.7
80°	39.3	40.6	108.8	129.7	142.6	132.2	169.7	383.0	781.9	899.9	1228.8
82.5°	22.1	24.6	65.2	80.5	78.1	39.3	57.8	188.7	444.4	500.4	587.7
85°	10.5	11.7	22.7	32.6	25.8	24.6	20.9	81.1	234.8	271.7	288.3
87.5°	5.5	5.5	10.5	12.9	11.7	11.7	8.6	6.1	4.3	4.9	3.7
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°	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1013.0	1008.7	998.3	987.2	983.5	976.8	976.8	975.5	971.9	966.3	958.9
5°	1022.9	1014.9	998.3	979.2	964.5	949.1	942.4	936.2	930.7	920.8	914.1
7.5°	1034.6	1021.0	994.6	965.7	938.7	917.8	905.5	895.6	887.6	880.9	874.7
10°	1043.8	1022.3	986.0	949.1	911.6	882.1	865.5	853.8	844.6	842.8	836.0
12.5°	1062.8	1030.9	983.5	938.7	891.9	859.4	834.8	813.3	805.3	796.7	793.6
15°	1088.7	1048.7	983.5	926.4	871.7	828.6	799.1	780.1	757.9	754.3	745.0
17.5°	1114.5	1065.3	979.8	905.5	841.5	790.5	751.8	730.9	718.0	696.5	690.3
20°	1140.3	1083.7	974.3	880.3	804.0	742.0	694.0	665.7	667.6	632.5	633.2
22.5°	1165.5	1102.8	972.5	855.7	764.7	682.9	626.4	592.0	593.8	568.0	561.8
25°	1206.1	1129.2	975.5	833.5	719.8	615.3	549.6	517.6	523.1	506.5	497.3
27.5°	1255.9	1160.6	978.0	806.5	660.8	540.3	472.7	460.4	458.0	440.1	429.7
30°	1305.0	1190.1	976.8	769.0	592.6	450.0	416.2	405.1	389.1	371.9	365.1
32.5°	1361.6	1225.7	970.6	729.7	518.8	401.4	367.6	351.6	329.5	311.0	314.7
35°	1451.3	1278.0	956.5	682.3	428.5	360.8	317.2	293.8	276.6	258.8	263.7
37.5°	1615.5	1369.6	939.3	626.4	375.6	315.3	256.9	239.7	232.4	225.0	234.2
40°	1866.9	1557.7	928.2	555.1	333.8	258.8	203.5	209.0	218.2	212.1	221.3
42.5°	2094.9	1724.3	920.2	460.4	280.9	201.6	191.8	204.7	215.1	213.9	210.2
45°	2306.4	1874.3	919.0	349.8	221.3	193.0	192.4	201.6	216.4	215.1	212.7
47.5°	2510.5	2022.4	909.8	276.0	214.5	196.7	196.1	201.0	218.8	217.0	215.1
50°	2709.0	2152.7	864.9	247.1	220.7	205.9	199.8	198.6	213.3	213.9	209.6
52.5°	2887.9	2258.4	761.0	239.1	226.8	213.9	204.1	198.6	201.6	201.0	197.3
55°	3066.8	2355.0	633.2	235.4	229.3	219.5	218.2	202.2	195.5	184.4	188.7
57.5°	3227.8	2450.2	539.7	228.7	225.0	219.5	227.4	202.9	194.9	174.0	170.9
60°	3417.2	2549.8	439.5	220.7	217.6	215.1	214.5	202.9	190.6	166.6	158.6
62.5°	3598.5	2599.6	349.2	207.8	210.2	208.4	201.6	191.8	181.3	164.1	161.7
65°	3684.6	2522.2	251.4	191.2	200.4	203.5	192.4	172.7	157.4	142.6	138.9
67.5°	3593.0	2409.7	199.8	169.7	183.2	194.9	183.2	159.2	140.8	129.7	130.3
70°	3269.0	2251.7	162.9	142.0	158.0	181.3	177.0	151.8	128.5	118.6	119.9
72.5°	2935.2	1957.9	131.5	111.3	118.0	162.9	160.4	144.5	121.1	107.0	107.0
75°	2393.1	1398.5	95.9	80.5	81.1	133.4	144.5	120.5	99.0	79.9	77.5
77.5°	1664.6	906.7	49.2	46.7	53.5	74.4	111.3	103.9	95.3	92.8	88.5
80°	969.4	462.9	31.4	21.5	27.7	49.8	87.3	91.0	89.7	60.9	56.6
82.5°	458.0	133.4	18.4	13.5	16.0	23.4	51.6	78.7	74.4	43.6	41.8
85°	184.4	16.0	9.8	8.0	9.2	13.5	24.6	63.3	51.6	40.6	40.6
87.5°	3.7	3.7	3.7	3.7	4.3	6.1	12.3	34.4	27.7	23.4	23.4
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)