

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: P129305

Luminaire Tested: **VERD-A01-E-U-T2-7060-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P129305
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-T2-7060-AP
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K LED AND TYPE II OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5839 lumens
Efficiency: N/A
Efficacy: 91.2 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

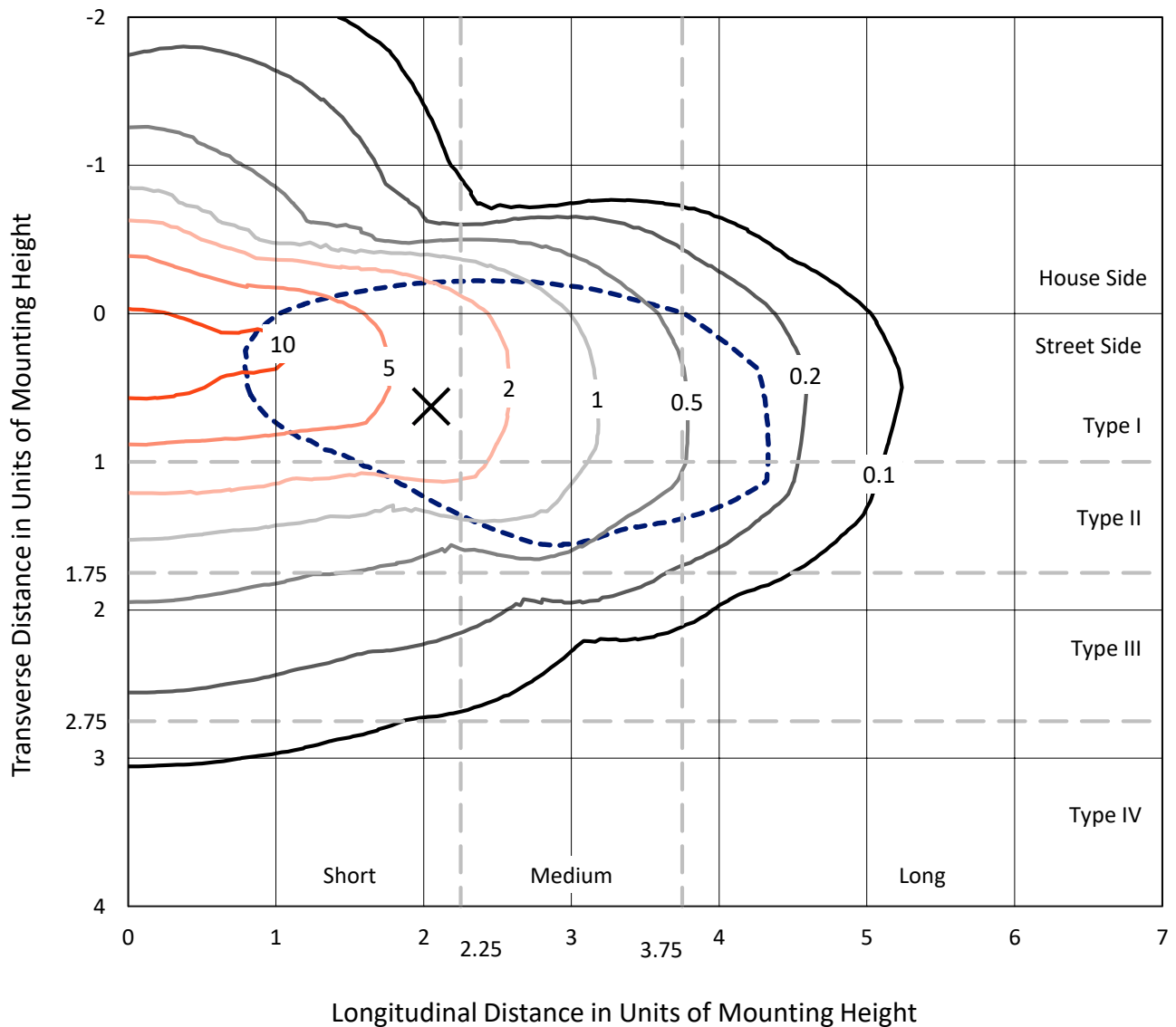
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

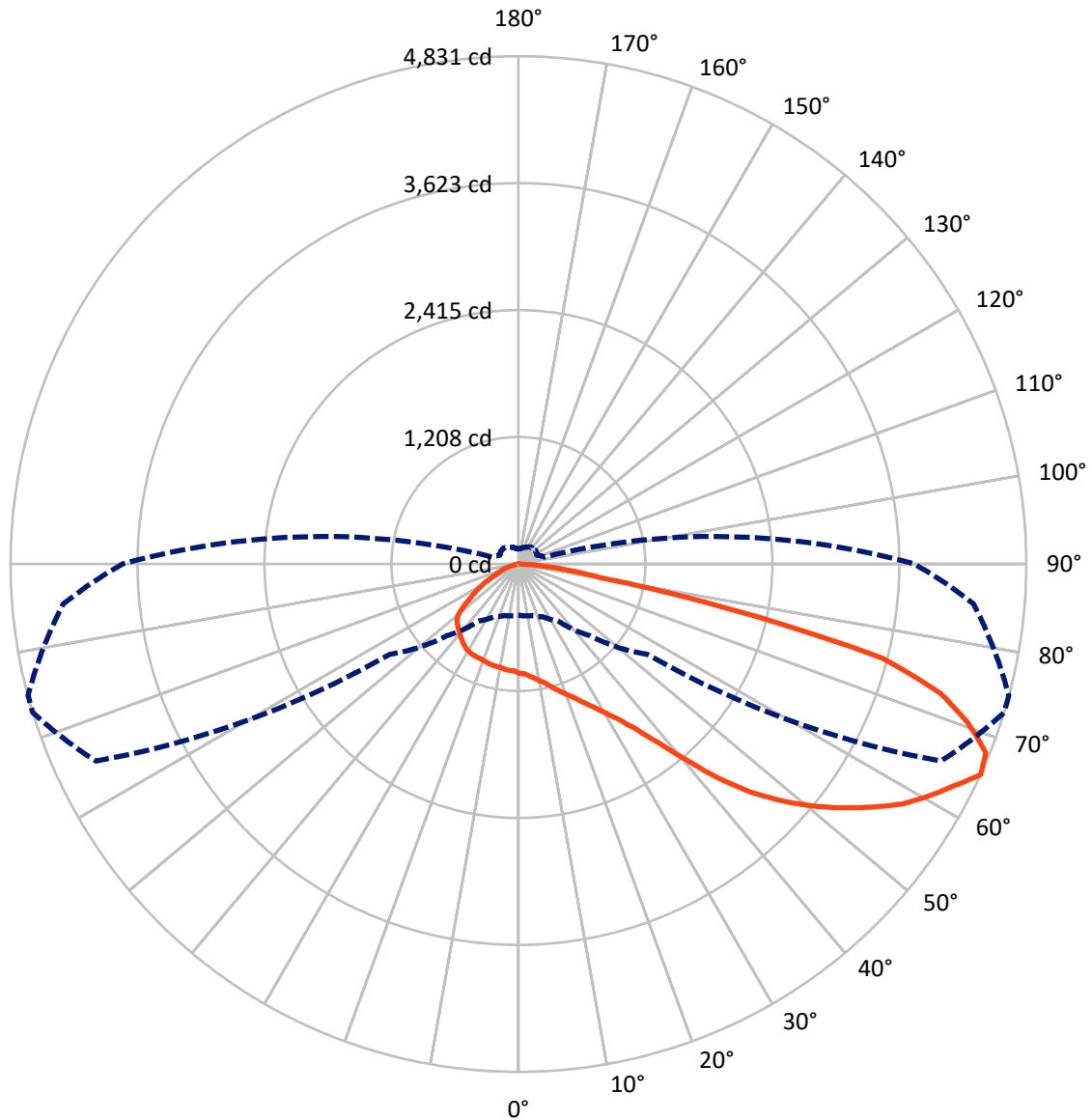
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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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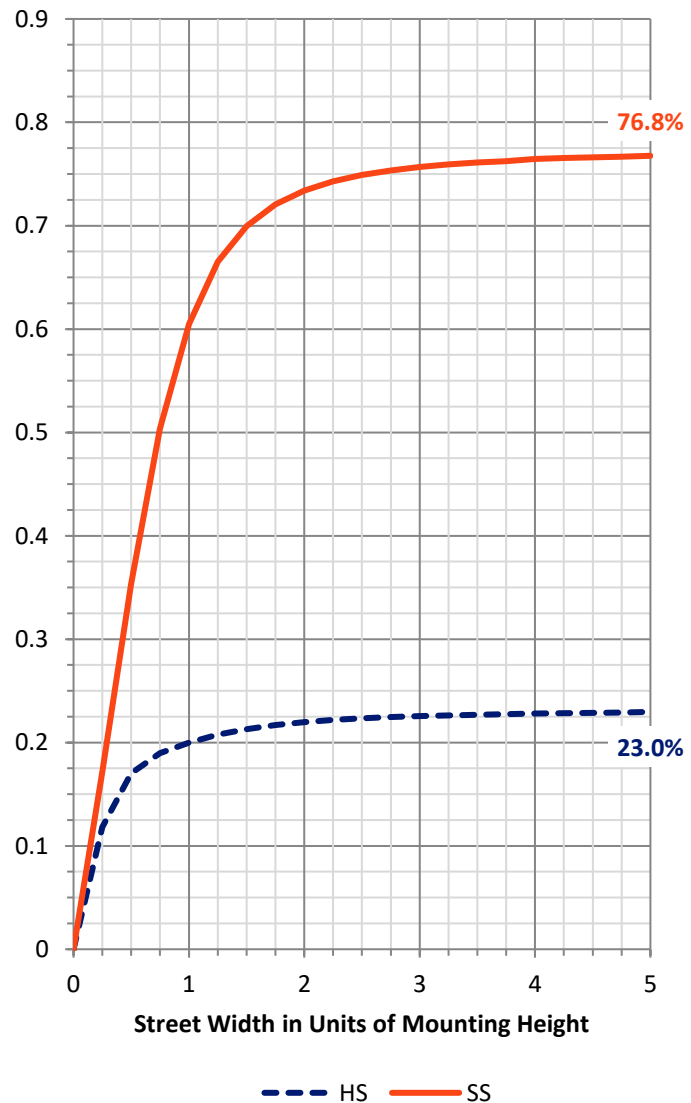
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1360.0	0.0	1360.0
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4479.0	0.0	4479.0
	% Fixture	76.7	0.0	76.7
Total	Lumens	5839.0	0.0	5839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.7
10°-20°	312.6	5.4
20°-30°	524.9	9.0
30°-40°	719.0	12.3
40°-50°	959.3	16.4
50°-60°	1152.3	19.7
60°-70°	1226.2	21.0
70°-80°	759.9	13.0
80°-90°	84.2	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°	5839.0	100.0
0°-180°	5839.0	100.0



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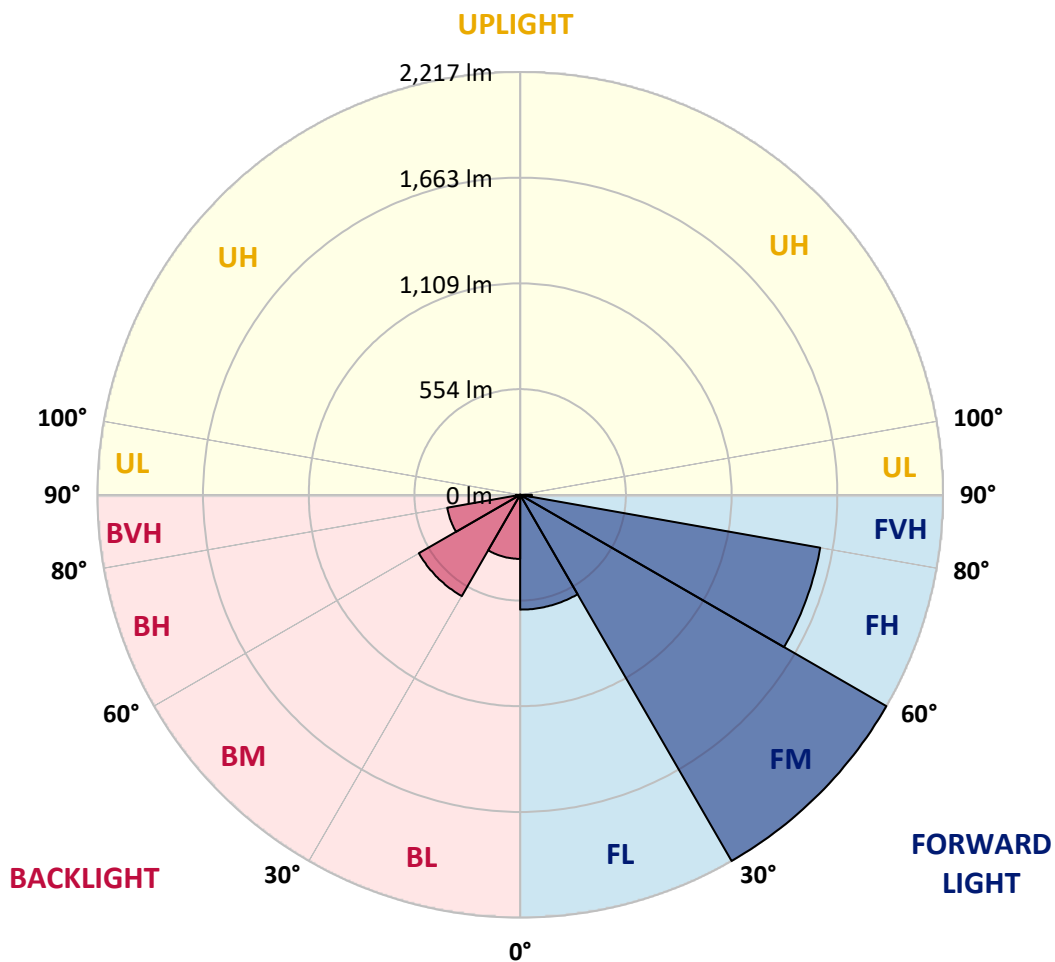
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.2	10.3			
FM	(30°-60°)	2217.4	38.0			
FH	(60°-80°)	1597.7	27.4			G1/1800
FVH	(80°-90°)	61.8	1.1			G1/100
BL	(0°-30°)	336.0	5.8	B1/500		
BM	(30°-60°)	613.2	10.5	B1/1000		
BH	(60°-80°)	388.3	6.7	B1/500		G1/500
BVH	(80°-90°)	22.5	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°	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1107.6	1105.1	1105.8	1103.2	1095.7	1087.5	1071.8	1058.6	1044.8	1042.3	1036.0
5°	1161.7	1160.4	1161.0	1157.3	1146.0	1131.5	1108.9	1087.5	1068.1	1063.0	1051.7
7.5°	1211.9	1211.9	1210.7	1204.4	1191.2	1173.0	1151.0	1123.3	1097.0	1090.0	1071.8
10°	1282.9	1279.8	1279.2	1268.5	1244.6	1219.5	1193.7	1162.3	1128.4	1118.3	1085.6
12.5°	1357.1	1353.9	1355.2	1340.1	1313.7	1272.2	1245.2	1208.2	1166.7	1156.0	1112.0
15°	1431.2	1425.5	1427.4	1414.2	1387.2	1349.5	1304.9	1263.4	1218.2	1205.6	1143.4
17.5°	1489.6	1485.9	1489.6	1480.2	1455.7	1420.5	1369.0	1325.0	1271.6	1257.8	1178.0
20°	1529.2	1529.8	1538.0	1535.5	1517.9	1485.2	1435.0	1387.8	1325.6	1310.6	1217.0
22.5°	1552.5	1555.0	1573.2	1588.9	1583.2	1545.5	1505.3	1452.6	1387.2	1372.1	1260.3
25°	1558.7	1562.5	1598.3	1639.2	1644.8	1615.3	1580.7	1522.9	1463.2	1446.9	1316.2
27.5°	1573.2	1576.3	1612.1	1658.6	1693.2	1680.0	1656.7	1600.2	1546.8	1528.6	1379.7
30°	1556.2	1558.7	1597.7	1659.3	1720.2	1739.0	1733.4	1688.8	1647.3	1626.6	1447.5
32.5°	1471.4	1482.1	1536.7	1640.4	1742.2	1796.8	1811.9	1792.5	1766.1	1742.8	1529.2
35°	1389.1	1396.6	1467.0	1596.4	1740.3	1845.2	1899.9	1929.4	1926.9	1903.7	1661.1
37.5°	1321.9	1330.7	1387.8	1533.0	1722.7	1891.7	1998.5	2102.8	2149.9	2135.5	1889.8
40°	1242.1	1252.8	1304.9	1448.8	1681.2	1920.6	2121.7	2297.0	2437.1	2445.2	2182.0
42.5°	1142.2	1159.2	1206.3	1341.4	1621.6	1937.0	2244.2	2511.8	2780.1	2785.1	2454.6
45°	1053.6	1067.4	1112.0	1228.3	1535.5	1938.2	2355.4	2744.3	3091.7	3087.3	2699.7
47.5°	968.8	987.0	1031.6	1132.8	1417.4	1912.5	2442.1	2979.3	3362.5	3354.3	2946.6
50°	741.4	762.7	918.5	1043.6	1279.2	1841.5	2503.0	3220.5	3616.9	3606.9	3180.9
52.5°	671.0	675.4	721.9	944.3	1175.5	1705.1	2519.4	3471.8	3853.2	3833.7	3388.3
55°	635.8	635.8	657.8	777.2	1046.1	1492.8	2469.1	3714.3	4081.2	4059.2	3597.5
57.5°	592.5	593.7	625.1	681.0	921.0	1289.8	2333.4	3953.1	4306.2	4282.9	3800.4
60°	557.3	559.2	588.1	635.8	796.0	1123.3	2066.4	4159.1	4483.3	4458.2	4007.7
62.5°	526.5	528.4	548.5	598.1	728.2	1034.8	1788.1	4274.1	4649.2	4637.9	4201.9
65°	487.5	493.8	507.6	553.5	662.2	964.4	1498.4	4434.3	4830.8	4828.9	4345.1
67.5°	438.5	444.2	457.4	498.8	599.4	883.3	1323.1	4560.0	4794.9	4793.7	4329.4
70°	380.1	380.1	399.6	437.9	522.7	781.6	1163.6	4216.3	4539.9	4531.1	4032.9
72.5°	315.4	316.0	335.5	373.8	441.7	649.6	895.3	3595.0	4194.3	4215.1	3575.5
75°	271.4	272.0	289.0	324.2	375.1	516.4	627.6	1920.6	3576.1	3592.4	3009.4
77.5°	162.1	159.0	181.6	208.0	238.1	297.2	387.0	974.4	2042.5	2359.1	2200.2
80°	40.2	41.5	111.2	132.6	145.8	135.1	173.4	391.4	799.2	919.8	1255.9
82.5°	22.6	25.1	66.6	82.3	79.8	40.2	59.1	192.9	454.2	511.4	600.6
85°	10.7	11.9	23.2	33.3	26.4	25.1	21.4	82.9	240.0	277.7	294.7
87.5°	5.7	5.7	10.7	13.2	11.9	11.9	8.8	6.3	4.4	5.0	3.8
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°	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1035.4	1031.0	1020.3	1009.0	1005.2	998.3	998.3	997.1	993.3	987.6	980.1
5°	1045.4	1037.3	1020.3	1000.8	985.8	970.0	963.1	956.9	951.2	941.1	934.2
7.5°	1057.4	1043.6	1016.5	987.0	959.4	938.0	925.4	915.4	907.2	900.3	894.0
10°	1066.8	1044.8	1007.7	970.0	931.7	901.6	884.6	872.7	863.2	861.4	854.4
12.5°	1086.3	1053.6	1005.2	959.4	911.6	878.3	853.2	831.2	823.0	814.2	811.1
15°	1112.7	1071.8	1005.2	946.8	890.9	846.9	816.7	797.3	774.7	770.9	761.5
17.5°	1139.1	1088.8	1001.5	925.4	860.1	808.0	768.4	747.0	733.8	711.8	705.5
20°	1165.4	1107.6	995.8	899.7	821.8	758.3	709.3	680.4	682.3	646.5	647.1
22.5°	1191.2	1127.1	993.9	874.6	781.6	698.0	640.2	605.0	606.9	580.5	574.2
25°	1232.7	1154.1	997.1	851.9	735.7	628.9	561.7	529.0	534.7	517.7	508.3
27.5°	1283.6	1186.2	999.6	824.3	675.4	552.2	483.1	470.6	468.1	449.8	439.2
30°	1333.8	1216.3	998.3	786.0	605.7	459.9	425.3	414.0	397.7	380.1	373.2
32.5°	1391.6	1252.8	992.0	745.8	530.3	410.3	375.7	359.4	336.8	317.9	321.7
35°	1483.3	1306.2	977.6	697.4	437.9	368.8	324.2	300.3	282.7	264.5	269.5
37.5°	1651.1	1399.8	960.0	640.2	383.9	322.3	262.6	245.0	237.5	229.9	239.4
40°	1908.1	1592.0	948.7	567.3	341.1	264.5	208.0	213.6	223.0	216.8	226.2
42.5°	2141.1	1762.3	940.5	470.6	287.1	206.1	196.0	209.2	219.9	218.6	214.9
45°	2357.3	1915.6	939.3	357.5	226.2	197.3	196.6	206.1	221.2	219.9	217.4
47.5°	2565.8	2067.0	929.8	282.1	219.3	201.0	200.4	205.4	223.7	221.8	219.9
50°	2768.8	2200.2	884.0	252.6	225.5	210.5	204.2	202.9	218.0	218.6	214.2
52.5°	2951.6	2308.3	777.8	244.4	231.8	218.6	208.6	202.9	206.1	205.4	201.7
55°	3134.4	2406.9	647.1	240.6	234.3	224.3	223.0	206.7	199.8	188.5	192.9
57.5°	3299.0	2504.3	551.6	233.7	229.9	224.3	232.5	207.3	199.2	177.8	174.7
60°	3492.5	2606.1	449.2	225.5	222.4	219.9	219.3	207.3	194.8	170.3	162.1
62.5°	3677.9	2656.9	356.9	212.4	214.9	213.0	206.1	196.0	185.3	167.7	165.2
65°	3765.8	2577.8	257.0	195.4	204.8	208.0	196.6	176.5	160.8	145.8	142.0
67.5°	3672.2	2462.8	204.2	173.4	187.2	199.2	187.2	162.7	143.9	132.6	133.2
70°	3341.1	2301.3	166.5	145.1	161.5	185.3	180.9	155.2	131.3	121.3	122.5
72.5°	3000.0	2001.0	134.4	113.7	120.6	166.5	164.0	147.6	123.8	109.3	109.3
75°	2445.9	1429.3	98.0	82.3	82.9	136.3	147.6	123.1	101.2	81.7	79.2
77.5°	1701.4	926.7	50.3	47.7	54.7	76.0	113.7	106.2	97.4	94.9	90.5
80°	990.8	473.1	32.0	22.0	28.3	50.9	89.2	93.0	91.7	62.2	57.8
82.5°	468.1	136.3	18.8	13.8	16.3	23.9	52.8	80.4	76.0	44.6	42.7
85°	188.5	16.3	10.1	8.2	9.4	13.8	25.1	64.7	52.8	41.5	41.5
87.5°	3.8	3.8	3.8	3.8	4.4	6.3	12.6	35.2	28.3	23.9	23.9
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)