

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: P509448

Luminaire Tested: **VERD-G-CA2-100-727-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-727-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11406 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

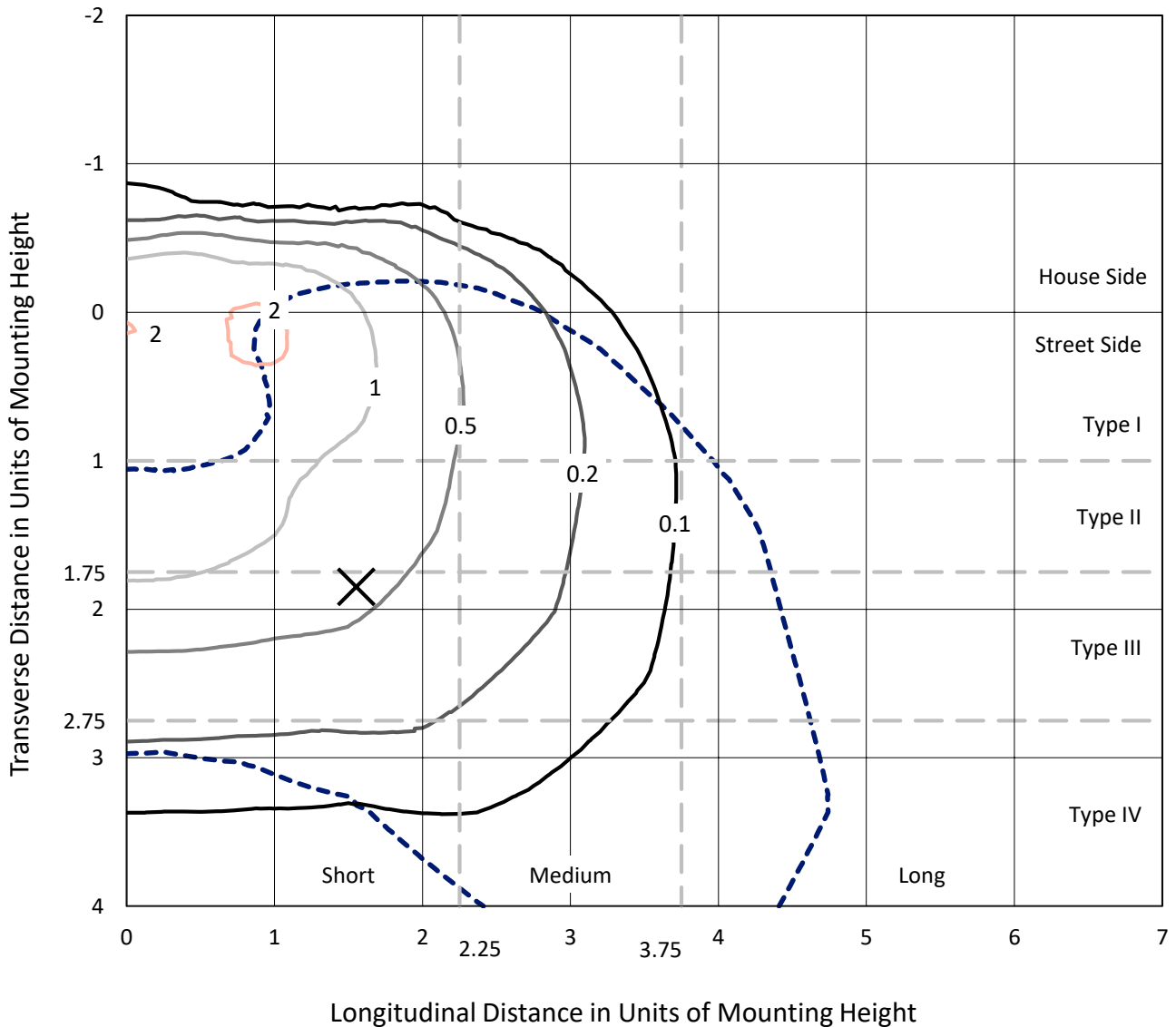
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

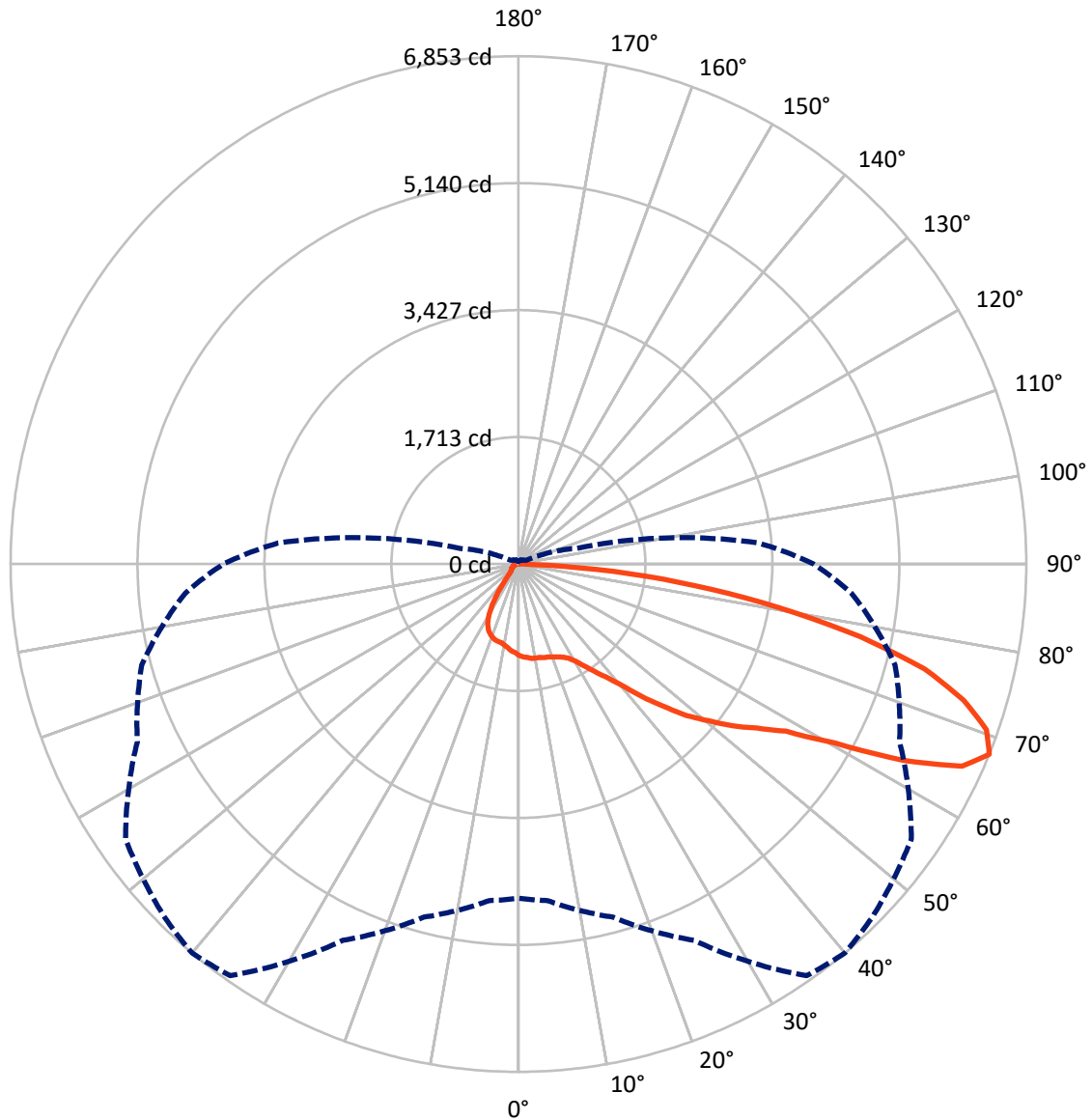
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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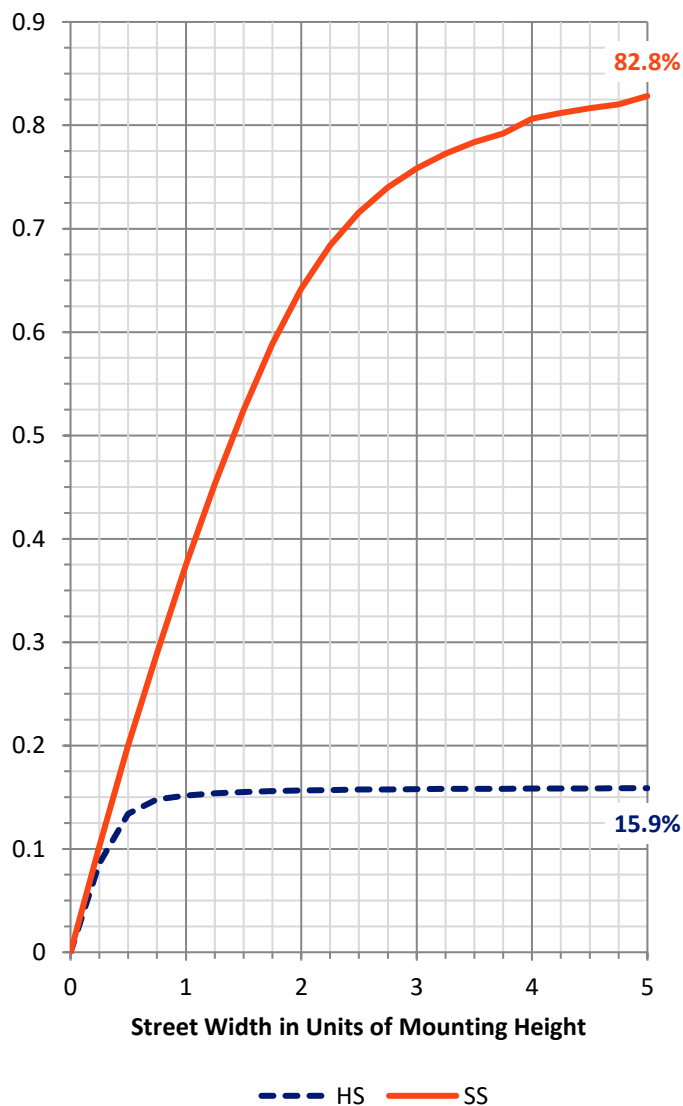
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.5	0.0	1830.5
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	9575.5	0.0	9575.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	11406.0	0.0	11406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.0
10°-20°	346.6	3.0
20°-30°	576.5	5.1
30°-40°	906.6	7.9
40°-50°	1569.7	13.8
50°-60°	2320.3	20.3
60°-70°	3016.6	26.4
70°-80°	2159.2	18.9
80°-90°	393.7	3.5
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°	11406.0	100.0
0°-180°	11406.0	100.0

Coefficient of Utilization



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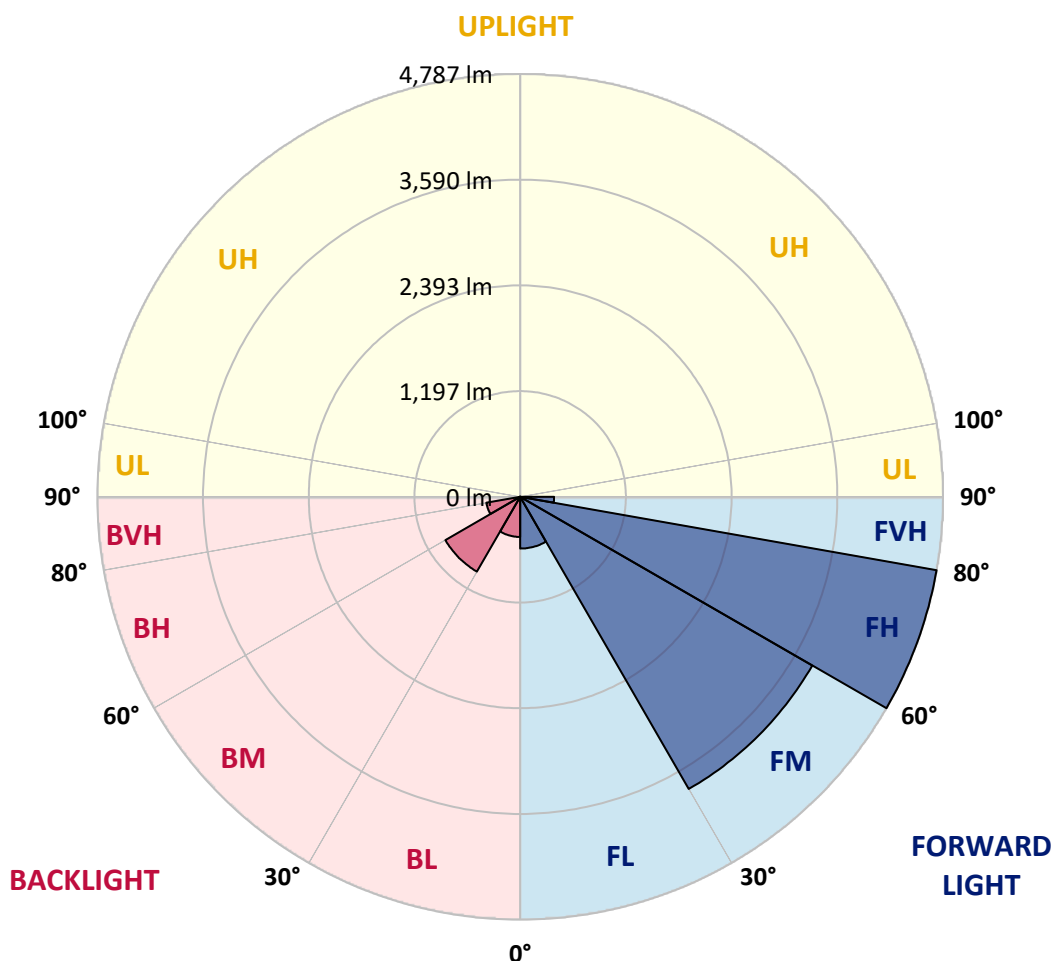
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	585.8	5.1			
FM	(30°-60°)	3818.8	33.5			
FH	(60°-80°)	4786.8	42.0			G2/5000
FVH	(80°-90°)	384.1	3.4			G3/500
BL	(0°-30°)	454.1	4.0	B1/500		
BM	(30°-60°)	977.8	8.6	B1/1000		
BH	(60°-80°)	388.9	3.4	B1/500		G1/500
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7
2.5°	1284.6	1283.8	1275.3	1271.1	1259.2	1255.0	1255.8	1250.8	1238.9	1240.6	1228.7
5°	1286.3	1292.2	1279.5	1276.2	1271.9	1266.8	1272.8	1266.0	1255.8	1259.2	1246.5
7.5°	1293.9	1296.5	1290.6	1287.2	1277.0	1287.2	1286.3	1280.4	1273.6	1267.7	1262.6
10°	1296.5	1293.9	1282.1	1279.5	1279.5	1289.7	1293.9	1296.5	1296.5	1287.2	1283.8
12.5°	1283.8	1282.1	1270.2	1275.3	1286.3	1293.1	1306.6	1315.1	1328.7	1318.5	1313.4
15°	1264.3	1268.5	1273.6	1275.3	1295.6	1310.9	1323.6	1338.8	1361.7	1361.7	1360.0
17.5°	1270.2	1278.7	1284.6	1293.1	1312.6	1317.6	1335.4	1360.0	1398.1	1400.6	1404.9
20°	1299.9	1299.9	1301.6	1307.5	1324.4	1339.7	1354.9	1386.2	1430.3	1444.7	1448.9
22.5°	1332.0	1330.4	1338.0	1337.1	1350.7	1360.8	1380.3	1407.4	1462.5	1489.6	1500.6
25°	1358.3	1363.4	1370.2	1361.7	1387.9	1392.2	1407.4	1440.4	1498.9	1547.1	1570.8
27.5°	1403.2	1406.6	1404.9	1409.1	1435.4	1437.9	1452.3	1499.7	1553.9	1620.0	1671.6
30°	1480.2	1468.4	1470.1	1479.4	1517.5	1522.6	1537.8	1583.6	1626.7	1714.0	1795.3
32.5°	1586.1	1586.1	1567.5	1585.2	1629.3	1642.8	1665.7	1734.3	1776.6	1823.2	1957.0
35°	1788.5	1788.5	1774.9	1728.4	1750.4	1784.2	1826.6	1921.4	2051.8	2204.3	2346.5
37.5°	2123.8	2118.7	2065.4	1981.6	1934.1	1946.0	1987.5	2140.8	2352.5	2724.2	2833.5
40°	2524.4	2510.0	2410.0	2293.2	2172.1	2151.8	2171.2	2363.5	2664.9	3216.2	3257.7
42.5°	2880.0	2879.2	2732.7	2633.6	2478.6	2444.8	2421.9	2588.7	2978.3	3573.6	3588.0
45°	3219.6	3211.1	3068.9	2961.3	2819.9	2733.5	2727.6	2844.5	3307.7	3895.4	3834.4
47.5°	3521.9	3534.6	3375.4	3272.1	3115.4	3056.2	3008.7	3108.7	3610.8	4169.7	4043.6
50°	3870.0	3892.8	3654.9	3541.4	3383.0	3324.6	3350.9	3424.5	3913.1	4394.1	4229.9
52.5°	4309.5	4236.6	4000.4	3805.6	3658.3	3629.5	3635.4	3737.9	4262.9	4577.9	4359.4
55°	4826.9	4719.3	4482.2	4178.2	3937.7	3910.6	3908.1	4012.2	4586.4	4749.8	4459.3
57.5°	5021.6	5077.5	4984.4	4760.0	4334.9	4255.3	4193.4	4290.0	4876.8	4939.5	4564.4
60°	5471.3	5531.4	5462.8	5318.9	5174.9	4898.0	4627.0	4617.7	5147.8	5120.7	4608.4
62.5°	5521.3	5501.8	5806.6	5857.4	5943.0	5835.4	5634.7	5052.1	5392.5	5213.0	4643.1
65°	5241.8	5244.3	5653.4	5932.8	6523.9	6578.9	6454.5	5743.1	5576.3	5249.4	4618.5
67.5°	4510.2	4560.1	4932.7	5602.6	6781.3	6853.3	6748.3	6472.2	5675.4	5262.1	4511.8
70°	3875.9	3877.6	4229.9	5047.0	6645.8	6700.0	6651.8	6519.7	5637.3	5161.4	4222.2
72.5°	3050.2	3040.9	3350.0	4175.7	6167.4	6282.5	6256.3	6346.9	5497.5	4797.2	3592.2
75°	2202.6	2221.2	2534.5	3216.2	5305.3	5662.7	5789.7	6065.8	4999.6	4074.0	2633.6
77.5°	1542.1	1560.7	1861.3	2443.1	4281.5	4712.5	4916.6	5158.8	4052.0	3019.8	1349.8
80°	1008.6	1025.5	1283.8	1835.1	3191.7	3559.2	3712.5	3567.6	2379.6	1268.5	148.2
82.5°	586.0	619.0	815.5	1259.2	2236.4	2410.9	2419.4	1877.4	889.2	113.5	69.4
85°	285.4	306.5	487.8	746.9	1223.7	1286.3	1193.2	698.6	207.5	54.2	39.8
87.5°	42.3	55.9	192.2	282.0	207.5	170.2	102.5	23.7	13.5	6.8	5.1
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°	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7	1234.7
2.5°	1222.0	1221.1	1223.7	1212.6	1213.5	1199.9	1194.9	1192.3	1204.2	1202.5	1211.0
5°	1237.2	1228.7	1227.9	1200.8	1198.2	1181.3	1171.1	1155.9	1167.8	1165.2	1165.2
7.5°	1246.5	1238.0	1233.0	1200.8	1178.8	1149.1	1132.2	1120.3	1119.5	1117.0	1117.8
10°	1261.8	1257.5	1230.4	1194.9	1165.2	1127.1	1094.9	1076.3	1067.8	1068.7	1062.8
12.5°	1295.6	1287.2	1250.8	1208.4	1161.0	1108.5	1067.0	1034.0	1017.0	1013.6	1004.3
15°	1343.9	1334.6	1288.9	1240.6	1172.0	1110.2	1048.4	989.9	961.1	949.3	940.8
17.5°	1400.6	1386.2	1333.7	1278.7	1194.9	1108.5	1030.6	951.8	896.8	865.4	862.9
20°	1445.5	1438.7	1378.6	1319.3	1209.3	1097.5	1000.9	896.8	814.6	757.1	745.2
22.5°	1504.8	1505.6	1438.7	1349.8	1221.1	1078.8	954.4	819.7	707.9	630.9	617.3
25°	1590.3	1577.6	1502.3	1374.4	1223.7	1057.7	890.9	723.2	577.5	491.2	475.9
27.5°	1692.8	1674.2	1553.9	1387.1	1212.6	1015.3	806.2	597.0	426.8	352.3	340.4
30°	1801.2	1757.1	1596.3	1392.2	1178.8	946.7	685.9	436.1	302.3	249.8	244.7
32.5°	1940.1	1875.7	1632.7	1375.2	1127.1	842.6	531.8	298.9	209.2	181.2	182.9
35°	2224.6	2067.1	1689.4	1356.6	1054.3	712.2	371.8	198.2	161.7	158.4	159.2
37.5°	2654.8	2405.0	1789.3	1329.5	945.9	544.5	238.8	153.3	154.1	154.1	154.1
40°	3070.6	2774.2	1942.6	1276.2	812.9	381.1	157.5	144.8	149.0	148.2	149.0
42.5°	3367.0	3048.5	2103.5	1211.0	659.7	241.3	141.4	136.3	138.9	138.0	140.6
45°	3607.4	3284.0	2250.0	1118.6	493.7	157.5	138.9	129.6	127.0	126.2	128.7
47.5°	3785.3	3438.9	2355.0	1003.5	329.4	135.5	133.0	119.4	116.0	116.0	116.9
50°	3958.0	3588.0	2386.3	872.2	203.2	132.1	125.3	110.9	105.9	104.2	105.9
52.5°	4078.3	3638.8	2393.1	724.0	136.3	128.7	116.0	100.8	94.8	94.0	94.8
55°	4180.7	3742.9	2338.1	539.4	121.9	121.1	107.5	90.6	83.8	87.2	88.9
57.5°	4206.1	3753.1	2228.0	356.5	121.1	110.9	98.2	81.3	76.2	79.6	80.4
60°	4270.5	3711.6	2090.8	219.3	118.6	99.1	87.2	72.0	68.6	69.4	71.1
62.5°	4215.5	3688.7	1856.2	153.3	109.2	90.6	81.3	66.1	60.1	59.3	59.3
65°	4159.6	3554.1	1419.3	127.0	97.4	84.7	73.7	58.4	51.7	48.3	48.3
67.5°	3981.7	3252.6	810.4	117.7	88.1	77.9	66.9	53.3	44.9	40.6	39.0
70°	3533.8	2605.7	249.8	107.5	88.9	72.8	61.8	46.6	39.0	33.0	32.2
72.5°	2767.4	1629.3	116.9	94.8	91.5	67.7	57.6	43.2	34.7	27.9	27.1
75°	1628.4	390.4	95.7	70.3	77.9	72.0	56.7	41.5	30.5	22.9	22.0
77.5°	354.0	94.8	85.5	47.4	58.4	69.4	54.2	36.4	27.1	17.8	16.9
80°	85.5	74.5	77.9	36.4	39.0	48.3	44.0	31.3	24.6	14.4	13.5
82.5°	57.6	55.9	68.6	22.9	19.5	17.8	18.6	19.5	20.3	11.0	10.2
85°	38.1	48.3	36.4	12.7	11.0	9.3	9.3	8.5	11.9	6.8	6.8
87.5°	5.9	5.1	5.9	5.1	5.1	4.2	3.4	3.4	2.5	3.4	3.4
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)