

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: P509440

Luminaire Tested: **VERD-G-CA2-100-722-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509440
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-CA2-100-722-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10977 lumens
Efficiency: N/A
Efficacy: 107.0 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

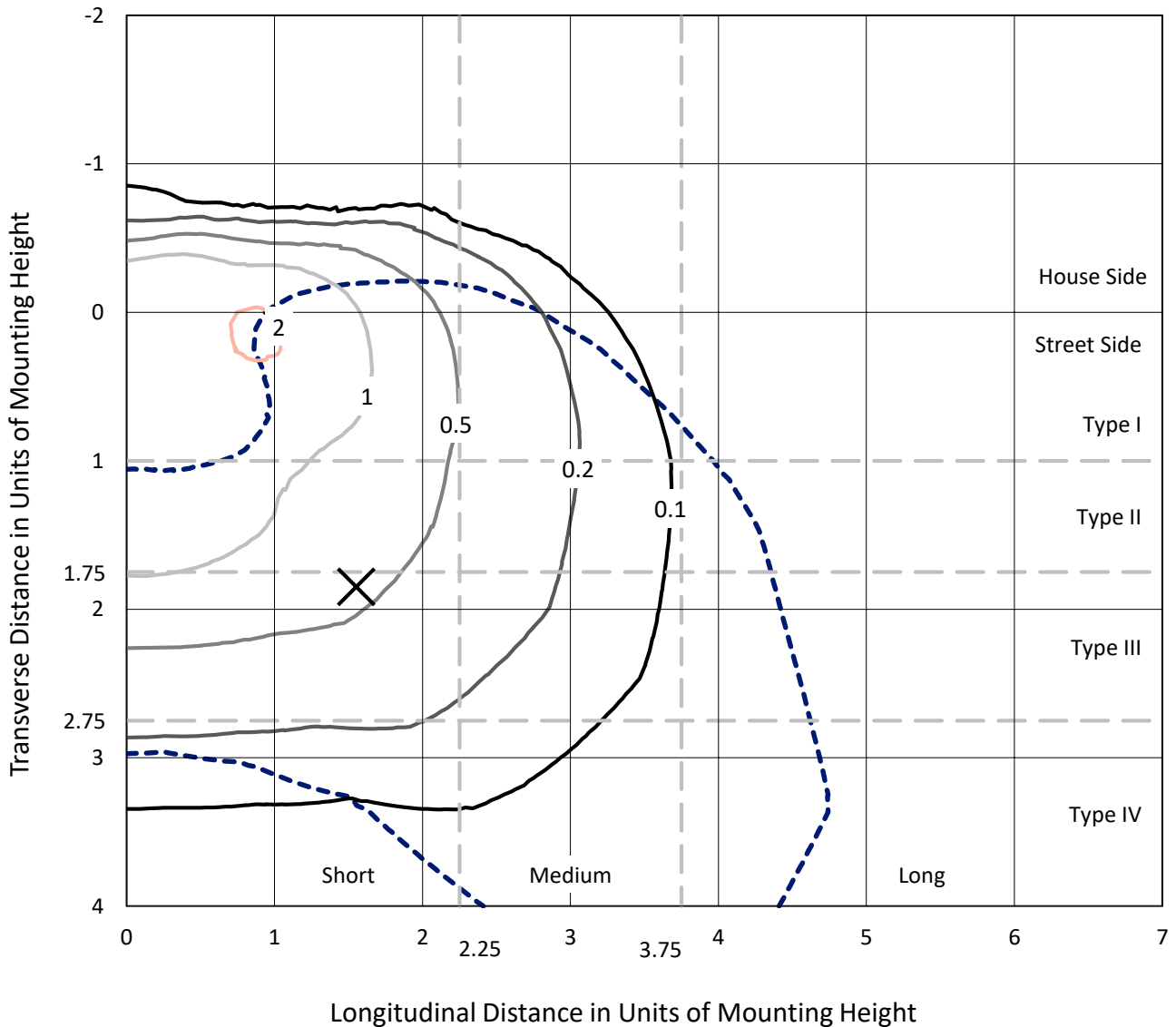
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

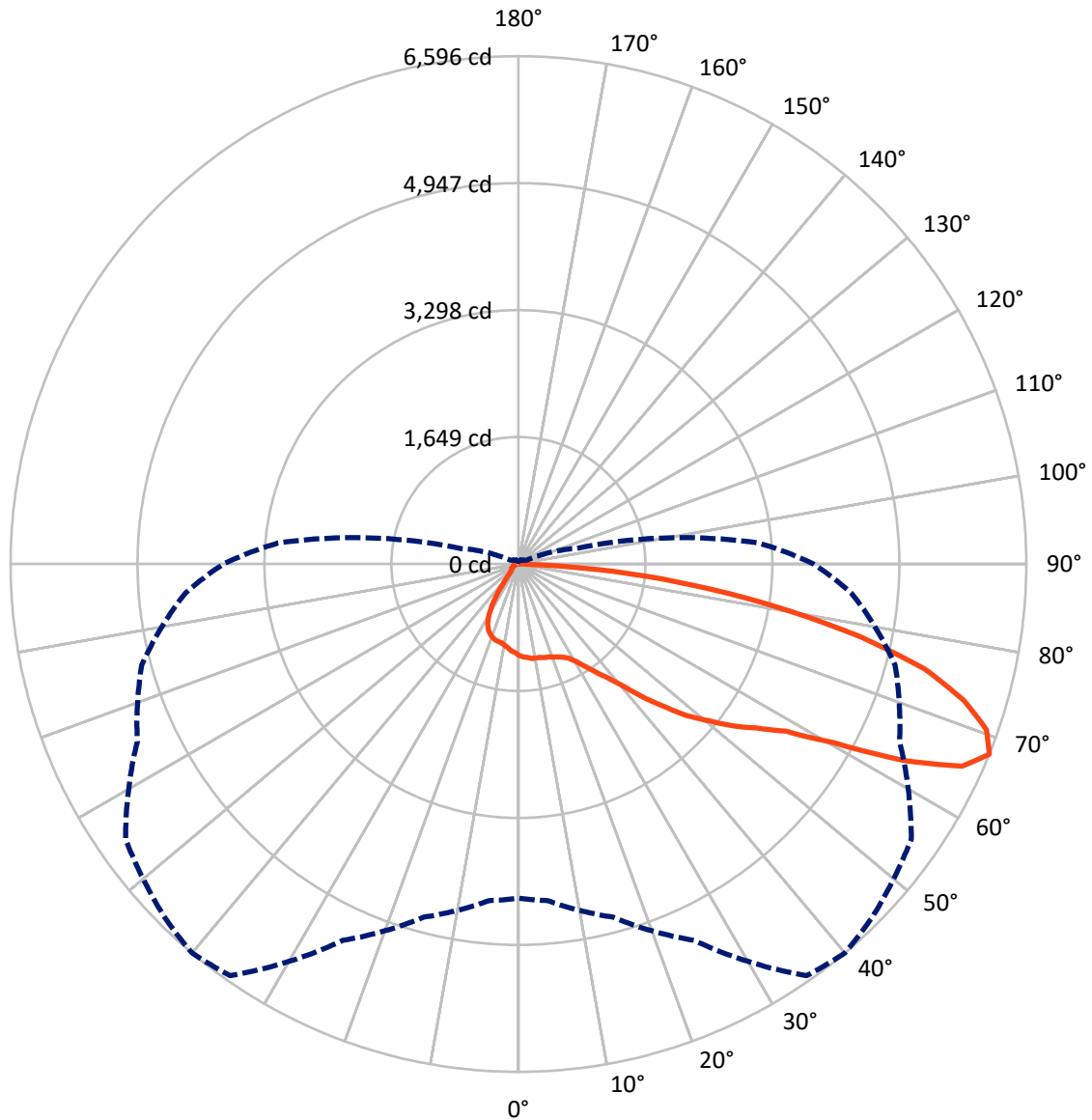
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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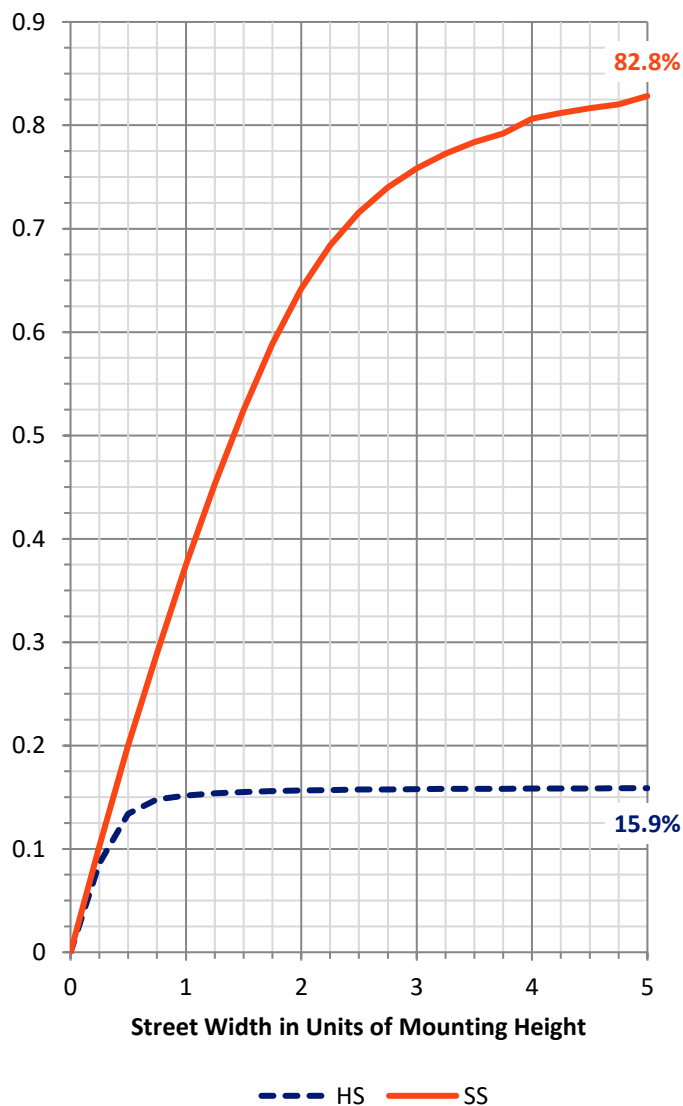
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1761.6	0.0	1761.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	9215.4	0.0	9215.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	10977.0	0.0	10977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	1.0
10°-20°	333.5	3.0
20°-30°	554.8	5.1
30°-40°	872.5	7.9
40°-50°	1510.7	13.8
50°-60°	2233.0	20.3
60°-70°	2903.1	26.4
70°-80°	2078.0	18.9
80°-90°	378.9	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°	10977.0	100.0
0°-180°	10977.0	100.0

Coefficient of Utilization



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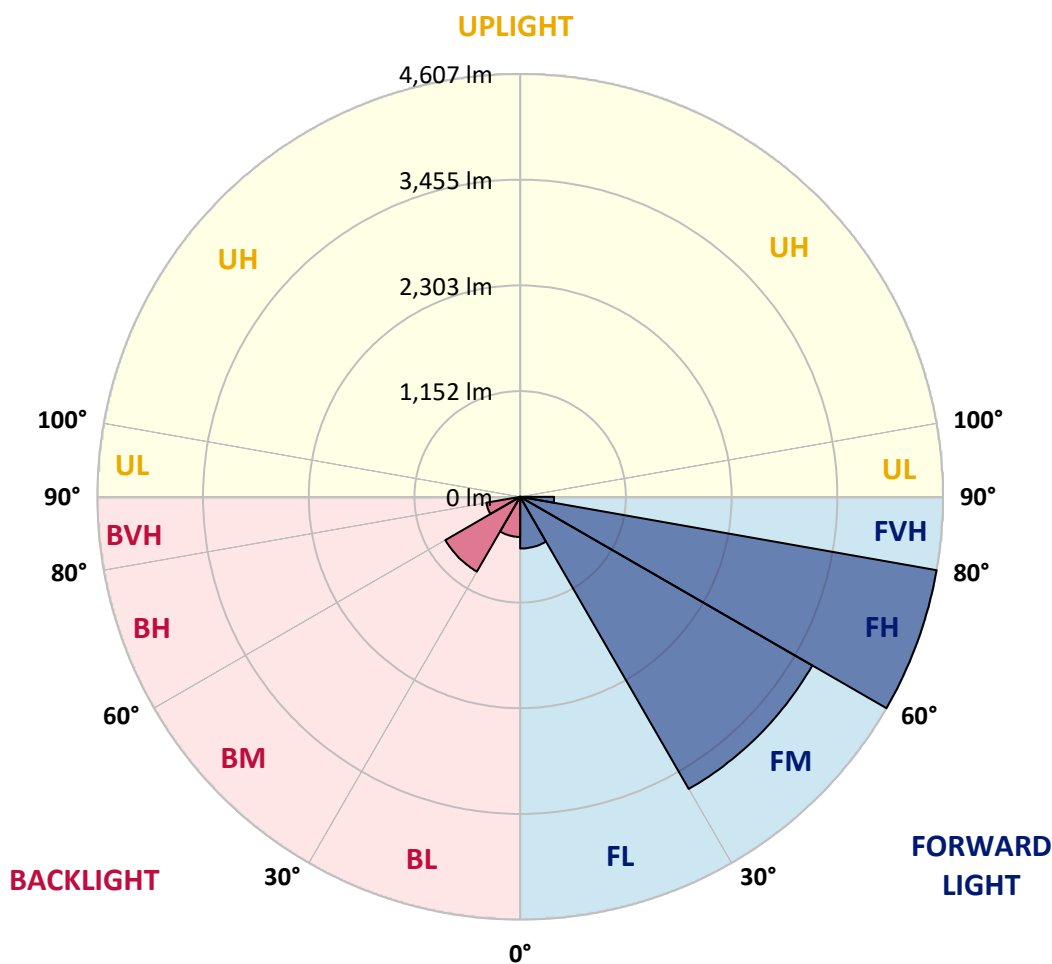
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.8	5.1			
FM	(30°-60°)	3675.2	33.5			
FH	(60°-80°)	4606.8	42.0			G2/5000
FVH	(80°-90°)	369.6	3.4			G3/500
BL	(0°-30°)	437.0	4.0	B1/500		
BM	(30°-60°)	941.0	8.6	B1/1000		
BH	(60°-80°)	374.3	3.4	B1/500		G1/500
BVH	(80°-90°)	9.3	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°	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1236.3	1235.5	1227.3	1223.3	1211.9	1207.8	1208.6	1203.7	1192.3	1193.9	1182.5
5°	1237.9	1243.6	1231.4	1228.2	1224.1	1219.2	1224.9	1218.4	1208.6	1211.9	1199.6
7.5°	1245.3	1247.7	1242.0	1238.8	1229.0	1238.8	1237.9	1232.2	1225.7	1220.0	1215.1
10°	1247.7	1245.3	1233.9	1231.4	1231.4	1241.2	1245.3	1247.7	1247.7	1238.8	1235.5
12.5°	1235.5	1233.9	1222.5	1227.3	1237.9	1244.5	1257.5	1265.6	1278.7	1268.9	1264.0
15°	1216.7	1220.8	1225.7	1227.3	1246.9	1261.6	1273.8	1288.5	1310.5	1310.5	1308.8
17.5°	1222.5	1230.6	1236.3	1244.5	1263.2	1268.1	1285.2	1308.8	1345.5	1348.0	1352.0
20°	1251.0	1251.0	1252.6	1258.3	1274.6	1289.3	1303.9	1334.1	1376.5	1390.3	1394.4
22.5°	1281.9	1280.3	1287.6	1286.8	1299.9	1309.7	1328.4	1354.5	1407.4	1433.5	1444.1
25°	1307.2	1312.1	1318.6	1310.5	1335.7	1339.8	1354.5	1386.3	1442.5	1488.9	1511.8
27.5°	1350.4	1353.7	1352.0	1356.1	1381.4	1383.8	1397.7	1443.3	1495.5	1559.0	1608.7
30°	1424.6	1413.2	1414.8	1423.7	1460.4	1465.3	1480.0	1524.0	1565.6	1649.5	1727.7
32.5°	1526.4	1526.4	1508.5	1525.6	1568.0	1581.0	1603.0	1669.1	1709.8	1754.6	1883.4
35°	1721.2	1721.2	1708.2	1663.3	1684.5	1717.1	1757.9	1849.2	1974.7	2121.4	2258.3
37.5°	2043.9	2039.1	1987.7	1907.0	1861.4	1872.8	1912.7	2060.2	2264.0	2621.8	2726.9
40°	2429.4	2415.6	2319.4	2206.9	2090.4	2070.8	2089.6	2274.6	2564.7	3095.2	3135.2
42.5°	2771.7	2770.9	2629.9	2534.6	2385.4	2352.8	2330.8	2491.4	2866.2	3439.2	3453.0
45°	3098.5	3090.4	2953.4	2849.9	2713.8	2630.7	2625.0	2737.5	3183.3	3748.9	3690.2
47.5°	3389.5	3401.7	3248.5	3149.0	2998.3	2941.2	2895.6	2991.7	3475.0	4012.9	3891.5
50°	3724.4	3746.4	3517.4	3408.2	3255.8	3199.6	3224.8	3295.7	3766.0	4228.9	4070.8
52.5°	4147.4	4077.3	3849.9	3662.5	3520.7	3493.0	3498.7	3597.3	4102.5	4405.7	4195.5
55°	4645.3	4541.8	4313.6	4021.1	3789.6	3763.5	3761.1	3861.3	4413.9	4571.2	4291.6
57.5°	4832.8	4886.5	4796.9	4580.9	4171.8	4095.2	4035.7	4128.6	4693.4	4753.7	4392.7
60°	5265.5	5323.4	5257.4	5118.8	4980.3	4713.8	4453.0	4444.0	4954.2	4928.1	4435.1
62.5°	5313.6	5294.8	5588.2	5637.1	5719.4	5615.9	5422.8	4862.1	5189.7	5016.9	4468.5
65°	5044.7	5047.1	5440.7	5709.7	6278.5	6331.5	6211.7	5527.1	5366.6	5052.0	4444.8
67.5°	4340.5	4388.6	4747.2	5391.8	6526.3	6595.5	6494.5	6228.8	5461.9	5064.2	4342.1
70°	3730.1	3731.7	4070.8	4857.2	6395.9	6448.0	6401.6	6274.4	5425.2	4967.2	4063.4
72.5°	2935.5	2926.6	3224.0	4018.6	5935.4	6046.2	6021.0	6108.2	5290.8	4616.8	3457.1
75°	2119.7	2137.7	2439.2	3095.2	5105.8	5449.7	5571.9	5837.6	4811.6	3920.8	2534.6
77.5°	1484.1	1502.0	1791.3	2351.2	4120.5	4535.3	4731.7	4964.8	3899.6	2906.2	1299.1
80°	970.6	986.9	1235.5	1766.0	3071.6	3425.3	3572.8	3433.5	2290.1	1220.8	142.6
82.5°	564.0	595.7	784.8	1211.9	2152.3	2320.2	2328.4	1806.8	855.7	109.2	66.8
85°	274.6	295.0	469.4	718.8	1177.6	1237.9	1148.3	672.3	199.7	52.2	38.3
87.5°	40.7	53.8	185.0	271.4	199.7	163.8	98.6	22.8	13.0	6.5	4.9
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°	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1176.0	1175.2	1177.6	1167.0	1167.8	1154.8	1149.9	1147.5	1158.9	1157.3	1165.4
5°	1190.7	1182.5	1181.7	1155.6	1153.2	1136.9	1127.1	1112.4	1123.8	1121.4	1121.4
7.5°	1199.6	1191.5	1186.6	1155.6	1134.4	1105.9	1089.6	1078.2	1077.4	1074.9	1075.8
10°	1214.3	1210.2	1184.1	1149.9	1121.4	1084.7	1053.8	1035.8	1027.7	1028.5	1022.8
12.5°	1246.9	1238.8	1203.7	1163.0	1117.3	1066.8	1026.9	995.1	978.8	975.5	966.6
15°	1293.4	1284.4	1240.4	1193.9	1127.9	1068.4	1008.9	952.7	925.0	913.6	905.4
17.5°	1348.0	1334.1	1283.6	1230.6	1149.9	1066.8	991.8	916.0	863.1	832.9	830.5
20°	1391.2	1384.6	1326.8	1269.7	1163.8	1056.2	963.3	863.1	784.0	728.6	717.2
22.5°	1448.2	1449.0	1384.6	1299.1	1175.2	1038.3	918.5	788.9	681.3	607.2	594.1
25°	1530.5	1518.3	1445.8	1322.7	1177.6	1017.9	857.3	696.0	555.8	472.7	458.0
27.5°	1629.1	1611.2	1495.5	1334.9	1167.0	977.1	775.8	574.6	410.7	339.0	327.6
30°	1733.4	1691.1	1536.2	1339.8	1134.4	911.1	660.1	419.7	290.9	240.4	235.5
32.5°	1867.1	1805.2	1571.3	1323.5	1084.7	810.9	511.8	287.7	201.3	174.4	176.0
35°	2140.9	1989.3	1625.9	1305.6	1014.6	685.4	357.8	190.7	155.7	152.4	153.2
37.5°	2554.9	2314.5	1722.0	1279.5	910.3	524.0	229.8	147.5	148.3	148.3	148.3
40°	2955.1	2669.8	1869.5	1228.2	782.4	366.7	151.6	139.4	143.4	142.6	143.4
42.5°	3240.3	2933.9	2024.4	1165.4	634.9	232.3	136.1	131.2	133.7	132.8	135.3
45°	3471.8	3160.4	2165.4	1076.6	475.1	151.6	133.7	124.7	122.2	121.4	123.9
47.5°	3642.9	3309.6	2266.4	965.7	317.0	130.4	127.9	114.9	111.7	111.7	112.5
50°	3809.2	3453.0	2296.6	839.4	195.6	127.1	120.6	106.8	101.9	100.2	101.9
52.5°	3924.9	3501.9	2303.1	696.8	131.2	123.9	111.7	97.0	91.3	90.5	91.3
55°	4023.5	3602.2	2250.1	519.1	117.4	116.5	103.5	87.2	80.7	83.9	85.6
57.5°	4047.9	3611.9	2144.2	343.1	116.5	106.8	94.5	78.2	73.3	76.6	77.4
60°	4109.9	3572.0	2012.2	211.1	114.1	95.4	83.9	69.3	66.0	66.8	68.5
62.5°	4056.9	3550.0	1786.4	147.5	105.1	87.2	78.2	63.6	57.9	57.0	57.0
65°	4003.1	3420.4	1365.9	122.2	93.7	81.5	70.9	56.2	49.7	46.5	46.5
67.5°	3832.0	3130.3	779.9	113.3	84.8	75.0	64.4	51.3	43.2	39.1	37.5
70°	3400.9	2507.7	240.4	103.5	85.6	70.1	59.5	44.8	37.5	31.8	31.0
72.5°	2663.3	1568.0	112.5	91.3	88.0	65.2	55.4	41.6	33.4	26.9	26.1
75°	1567.2	375.7	92.1	67.6	75.0	69.3	54.6	39.9	29.3	22.0	21.2
77.5°	340.7	91.3	82.3	45.6	56.2	66.8	52.2	35.0	26.1	17.1	16.3
80°	82.3	71.7	75.0	35.0	37.5	46.5	42.4	30.2	23.6	13.9	13.0
82.5°	55.4	53.8	66.0	22.0	18.7	17.1	17.9	18.7	19.6	10.6	9.8
85°	36.7	46.5	35.0	12.2	10.6	9.0	9.0	8.1	11.4	6.5	6.5
87.5°	5.7	4.9	5.7	4.9	4.9	4.1	3.3	3.3	2.4	3.3	3.3
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)