

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: P509064

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10702 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

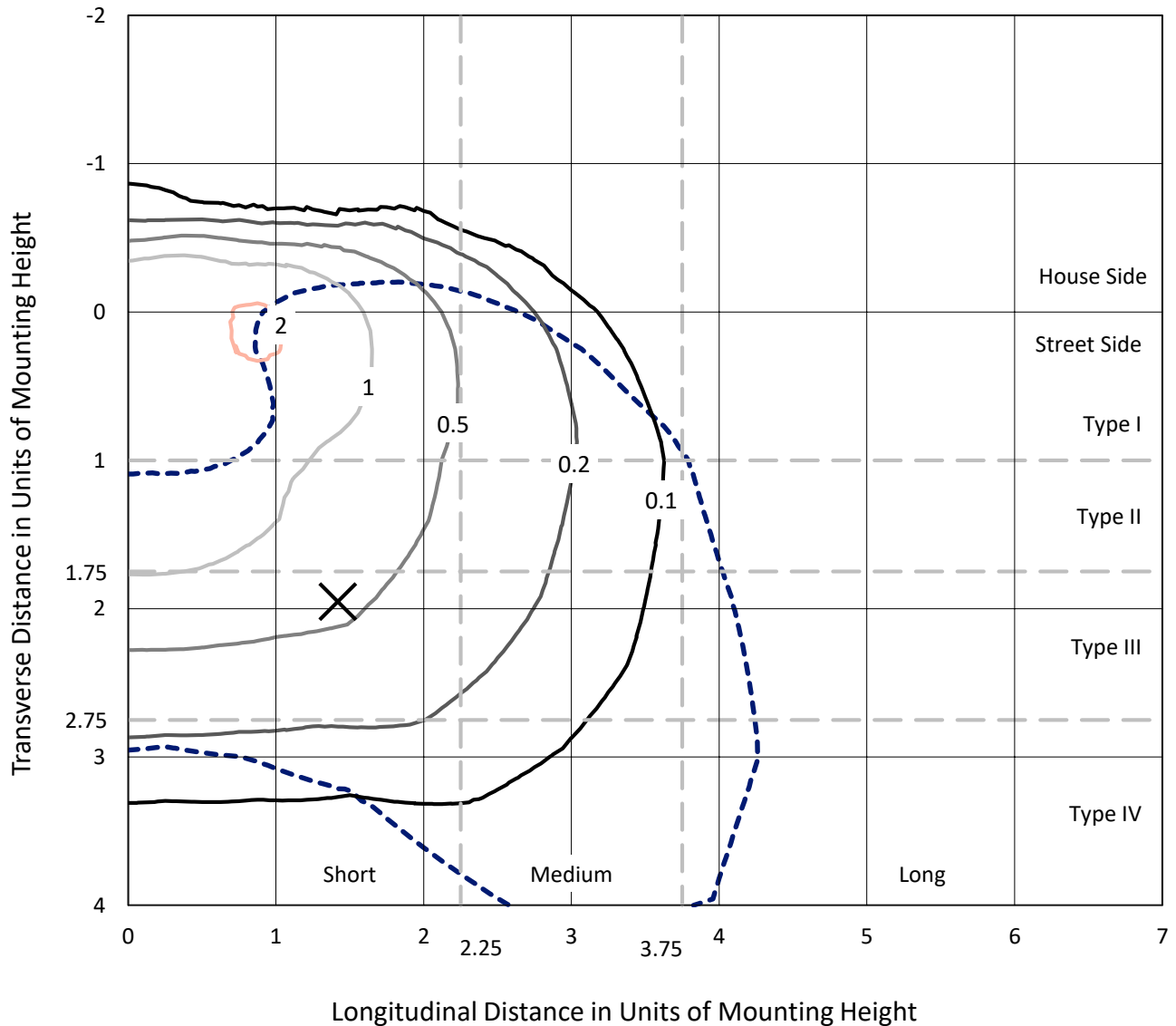
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

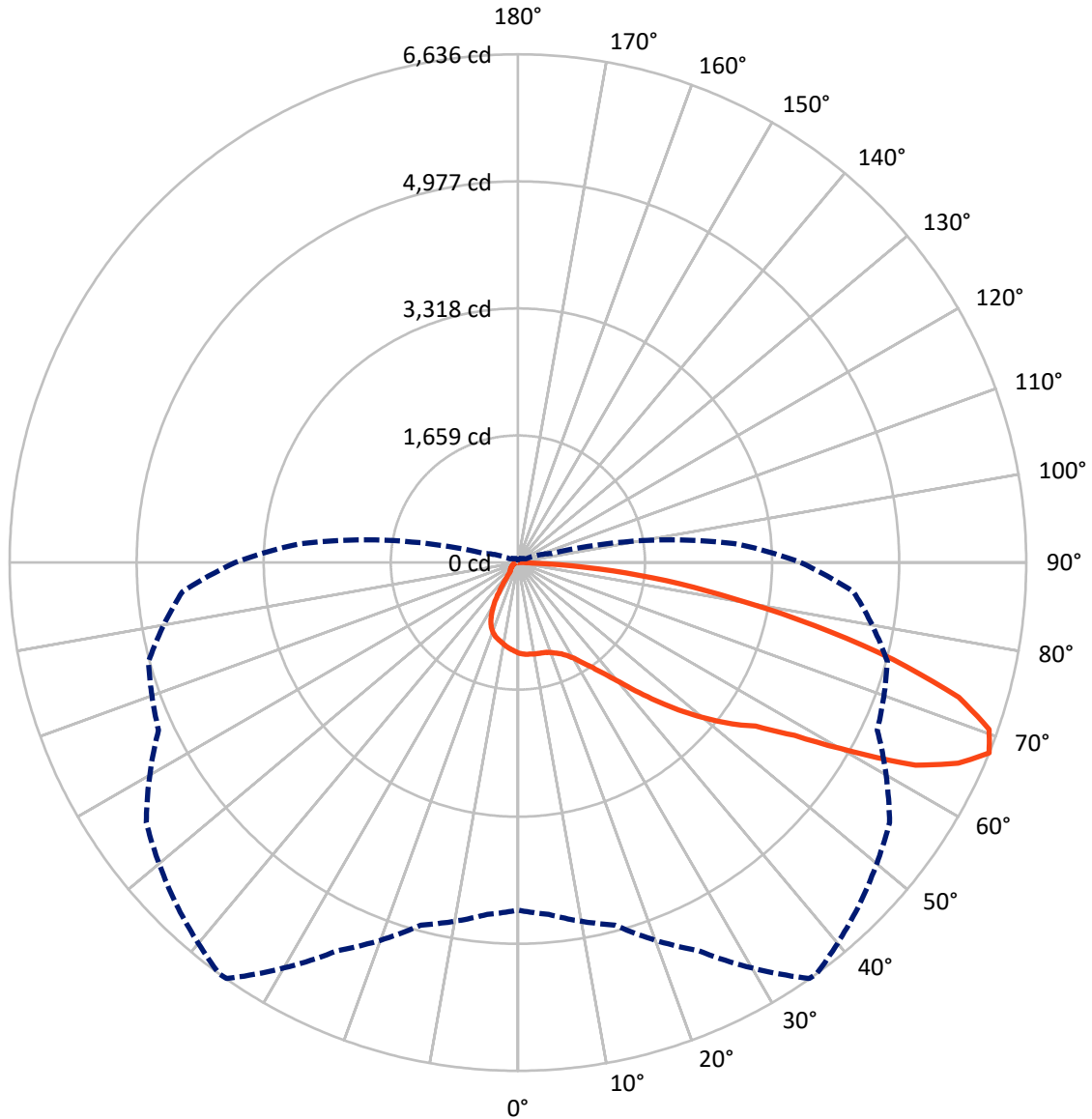
✕ Max cd
 - - - 1/2 Max cd



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 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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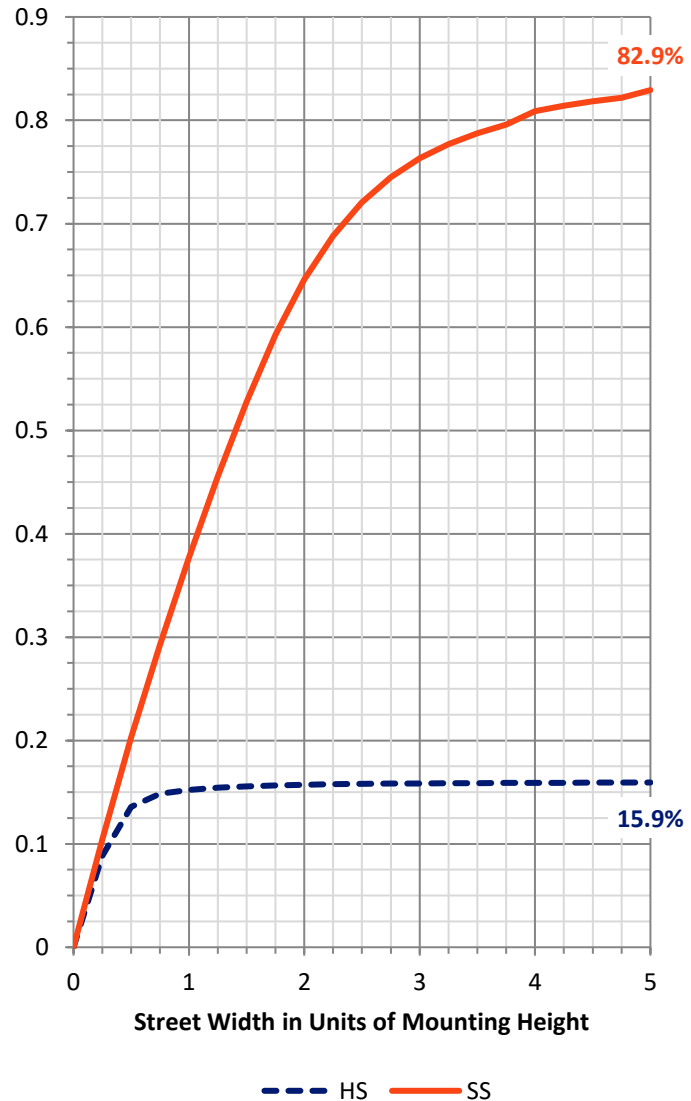
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1725.9	0.0	1725.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	8976.1	0.0	8976.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	10702.0	0.0	10702.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	1.0
10°-20°	330.7	3.1
20°-30°	546.9	5.1
30°-40°	867.5	8.1
40°-50°	1497.4	14.0
50°-60°	2219.5	20.7
60°-70°	2869.5	26.8
70°-80°	1937.0	18.1
80°-90°	322.0	3.0
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°	10702.0	100.0
0°-180°	10702.0	100.0



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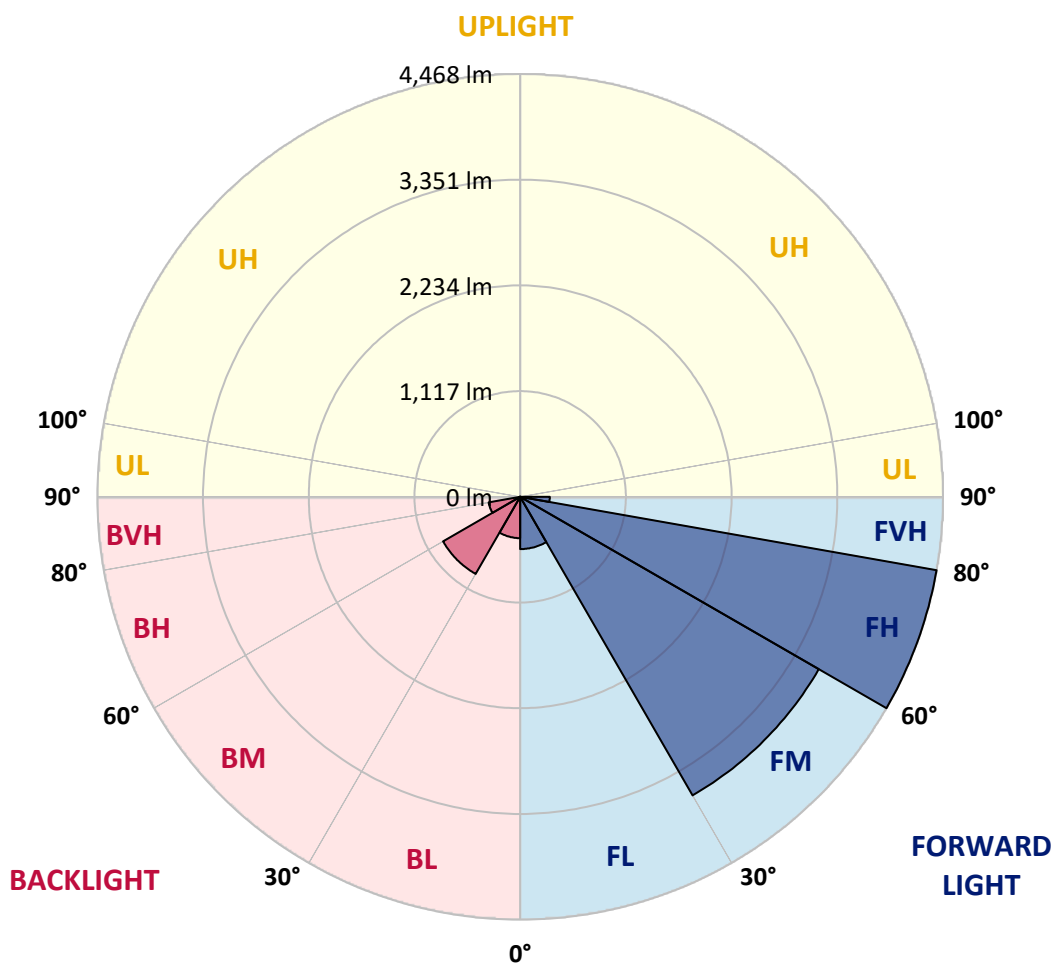
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.4	5.2			
FM	(30°-60°)	3642.8	34.0			
FH	(60°-80°)	4468.1	41.8			G2/5000
FVH	(80°-90°)	312.8	2.9			G3/500
BL	(0°-30°)	436.8	4.1	B1/500		
BM	(30°-60°)	941.6	8.8	B1/1000		
BH	(60°-80°)	338.4	3.2	B1/500		G1/500
BVH	(80°-90°)	9.1	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°	36°	45°	55°	65°	75°	85°
0°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1187.9	1199.4	1198.1	1196.9	1196.9	1195.6	1187.9	1180.2	1184.0	1182.8	1181.5
5°	1193.0	1204.5	1203.3	1202.0	1202.0	1203.3	1191.7	1182.8	1185.3	1187.9	1186.6
7.5°	1195.6	1205.8	1203.3	1202.0	1200.7	1204.5	1195.6	1196.9	1199.4	1199.4	1199.4
10°	1199.4	1207.1	1207.1	1208.4	1209.7	1213.5	1209.7	1213.5	1223.7	1221.2	1227.6
12.5°	1189.2	1198.1	1202.0	1208.4	1214.8	1217.3	1221.2	1231.4	1244.2	1250.6	1257.0
15°	1185.3	1194.3	1200.7	1208.4	1218.6	1221.2	1231.4	1249.3	1264.7	1277.5	1291.6
17.5°	1198.1	1208.4	1217.3	1222.5	1227.6	1231.4	1241.7	1264.7	1291.6	1314.6	1335.1
20°	1222.5	1232.7	1242.9	1248.1	1251.9	1254.5	1262.1	1283.9	1318.5	1354.3	1383.7
22.5°	1250.6	1260.9	1272.4	1276.2	1285.2	1285.2	1286.5	1308.2	1350.5	1399.1	1434.9
25°	1281.3	1287.7	1298.0	1304.4	1317.2	1319.7	1323.6	1342.8	1395.3	1450.3	1506.6
27.5°	1317.2	1330.0	1340.2	1347.9	1373.5	1374.8	1372.2	1396.5	1447.7	1515.6	1594.9
30°	1382.5	1396.5	1406.8	1419.6	1452.9	1451.6	1468.2	1493.8	1523.3	1597.5	1703.8
32.5°	1486.1	1487.4	1492.5	1509.2	1556.5	1561.7	1593.7	1639.7	1698.6	1746.0	1858.6
35°	1675.6	1669.2	1653.8	1651.3	1683.3	1685.8	1748.6	1845.8	1973.8	2131.3	2305.4
37.5°	1897.0	1913.7	1895.8	1840.7	1845.8	1847.1	1921.4	2045.5	2283.6	2677.9	2843.0
40°	2286.2	2295.1	2183.8	2096.7	2066.0	2051.9	2090.3	2278.5	2583.1	3096.5	3212.9
42.5°	2629.2	2629.2	2525.5	2391.1	2313.1	2323.3	2311.8	2498.7	2890.4	3460.0	3502.2
45°	2972.3	2960.8	2866.0	2753.4	2616.4	2607.5	2578.0	2721.4	3173.3	3721.1	3722.4
47.5°	3292.3	3319.2	3177.1	3052.9	2913.4	2907.0	2854.5	2965.9	3444.6	3950.2	3915.7
50°	3629.0	3666.1	3488.1	3348.6	3197.6	3206.5	3163.0	3241.1	3714.7	4164.0	4101.3
52.5°	4107.7	4038.6	3826.1	3632.8	3476.6	3502.2	3457.4	3503.5	3995.0	4334.3	4203.7
55°	4621.0	4498.1	4321.5	3997.6	3771.0	3768.5	3735.2	3790.2	4277.9	4528.8	4320.2
57.5°	4896.2	4933.3	4892.4	4630.0	4263.9	4257.5	4057.8	4064.2	4537.8	4695.2	4482.7
60°	5209.8	5255.9	5345.5	5181.7	4998.6	5003.7	4505.8	4357.3	4811.7	4828.4	4495.5
62.5°	5376.2	5381.3	5587.4	5645.0	5793.5	5826.8	5449.2	4715.7	4993.5	4930.8	4517.3
65°	5081.8	5090.8	5487.6	5778.2	6273.5	6318.3	6155.8	5409.5	5129.2	4984.5	4496.8
67.5°	4537.8	4610.8	4900.0	5593.8	6629.4	6635.8	6308.1	5922.8	5176.5	4992.2	4398.3
70°	3803.0	3777.4	4143.5	4976.9	6574.4	6527.0	6241.5	5981.7	5142.0	4887.2	3949.0
72.5°	2820.0	2781.6	3159.2	4001.4	5930.5	6020.1	5943.3	5637.4	5011.4	4495.5	3205.3
75°	1930.3	1975.1	2314.3	3017.1	4925.6	5061.3	5400.5	5371.1	4458.4	3726.2	2194.0
77.5°	1321.0	1340.2	1630.8	2245.2	3904.2	3956.6	4518.6	4339.4	3278.2	2290.0	732.2
80°	860.2	853.8	1114.9	1598.8	2862.2	2855.8	3227.0	2745.7	1766.5	780.8	101.1
82.5°	480.0	508.2	668.2	1050.9	1934.2	1954.6	2014.8	1501.5	679.7	90.9	64.0
85°	270.1	281.6	384.0	595.2	1013.8	1065.0	898.6	551.7	121.6	49.9	37.1
87.5°	64.0	61.4	122.9	227.8	169.0	183.0	87.0	25.6	12.8	9.0	9.0
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°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1181.5	1178.9	1176.4	1171.2	1167.4	1155.9	1157.2	1164.8	1157.2	1170.0	1162.3
5°	1184.0	1180.2	1173.8	1158.4	1146.9	1138.0	1135.4	1134.1	1123.9	1135.4	1130.3
7.5°	1194.3	1190.5	1176.4	1159.7	1143.1	1116.2	1112.4	1107.2	1088.0	1095.7	1089.3
10°	1218.6	1213.5	1189.2	1166.1	1140.5	1104.7	1084.2	1068.8	1047.1	1049.6	1043.2
12.5°	1249.3	1244.2	1216.1	1177.6	1141.8	1091.9	1056.0	1026.6	994.6	994.6	988.2
15°	1285.2	1280.1	1248.1	1203.3	1146.9	1081.6	1027.9	980.5	929.3	922.9	915.2
17.5°	1333.8	1326.1	1289.0	1231.4	1161.0	1072.7	999.7	929.3	851.2	826.9	814.1
20°	1383.7	1374.8	1342.8	1271.1	1180.2	1063.7	958.8	862.8	761.6	711.7	702.7
22.5°	1447.7	1445.2	1405.5	1305.7	1186.6	1044.5	907.6	788.5	652.8	583.7	569.6
25°	1523.3	1519.4	1458.0	1332.5	1178.9	1006.1	834.6	682.3	529.9	460.8	445.5
27.5°	1612.9	1602.6	1502.8	1338.9	1157.2	946.0	741.2	545.3	391.7	332.8	321.3
30°	1707.6	1692.2	1550.1	1340.2	1113.6	871.7	618.3	400.7	277.8	235.5	235.5
32.5°	1866.3	1813.8	1596.2	1322.3	1050.9	765.5	471.1	270.1	194.6	177.9	177.9
35°	2206.8	2081.4	1669.2	1299.3	969.0	633.6	320.0	183.0	162.6	162.6	161.3
37.5°	2717.6	2484.6	1793.4	1260.9	857.6	471.1	211.2	151.0	154.9	154.9	154.9
40°	3044.0	2799.5	1962.3	1200.7	729.6	320.0	151.0	143.4	145.9	148.5	148.5
42.5°	3348.6	3073.4	2131.3	1117.5	588.8	204.8	140.8	134.4	135.7	135.7	137.0
45°	3541.9	3276.9	2256.7	1029.2	433.9	145.9	138.2	126.7	122.9	122.9	125.4
47.5°	3721.1	3410.1	2311.8	912.7	280.3	137.0	131.8	117.8	112.6	111.4	111.4
50°	3900.3	3547.0	2342.5	774.4	175.4	131.8	121.6	107.5	102.4	101.1	101.1
52.5°	3979.7	3590.6	2273.4	618.3	130.6	126.7	113.9	98.6	90.9	90.9	90.9
55°	4062.9	3671.2	2156.9	442.9	124.2	117.8	105.0	88.3	81.9	84.5	84.5
57.5°	4155.1	3613.6	2032.7	288.0	122.9	106.2	93.4	79.4	74.2	76.8	78.1
60°	4126.9	3627.7	1854.8	193.3	117.8	97.3	84.5	70.4	66.6	66.6	66.6
62.5°	4126.9	3518.9	1562.9	147.2	107.5	89.6	78.1	65.3	58.9	56.3	53.8
65°	4018.1	3261.6	1141.8	128.0	96.0	83.2	70.4	57.6	49.9	46.1	44.8
67.5°	3689.1	2835.3	459.5	116.5	88.3	76.8	65.3	52.5	43.5	38.4	37.1
70°	3136.1	2092.9	131.8	103.7	89.6	71.7	61.4	46.1	38.4	32.0	30.7
72.5°	2324.6	1106.0	107.5	81.9	79.4	61.4	57.6	43.5	33.3	26.9	25.6
75°	1173.8	151.0	92.2	58.9	61.4	64.0	55.0	38.4	30.7	21.8	20.5
77.5°	121.6	89.6	80.6	39.7	43.5	44.8	47.4	35.8	26.9	17.9	16.6
80°	75.5	67.8	79.4	34.6	25.6	30.7	32.0	28.2	21.8	14.1	14.1
82.5°	53.8	57.6	58.9	21.8	19.2	17.9	16.6	16.6	19.2	12.8	12.8
85°	37.1	38.4	24.3	14.1	12.8	11.5	10.2	10.2	9.0	10.2	9.0
87.5°	9.0	7.7	7.7	7.7	6.4	6.4	5.1	5.1	5.1	5.1	6.4
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)