

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: P509488

Luminaire Tested: **VERD-G-CA2-110-722-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509488
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-CA2-110-722-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11933 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

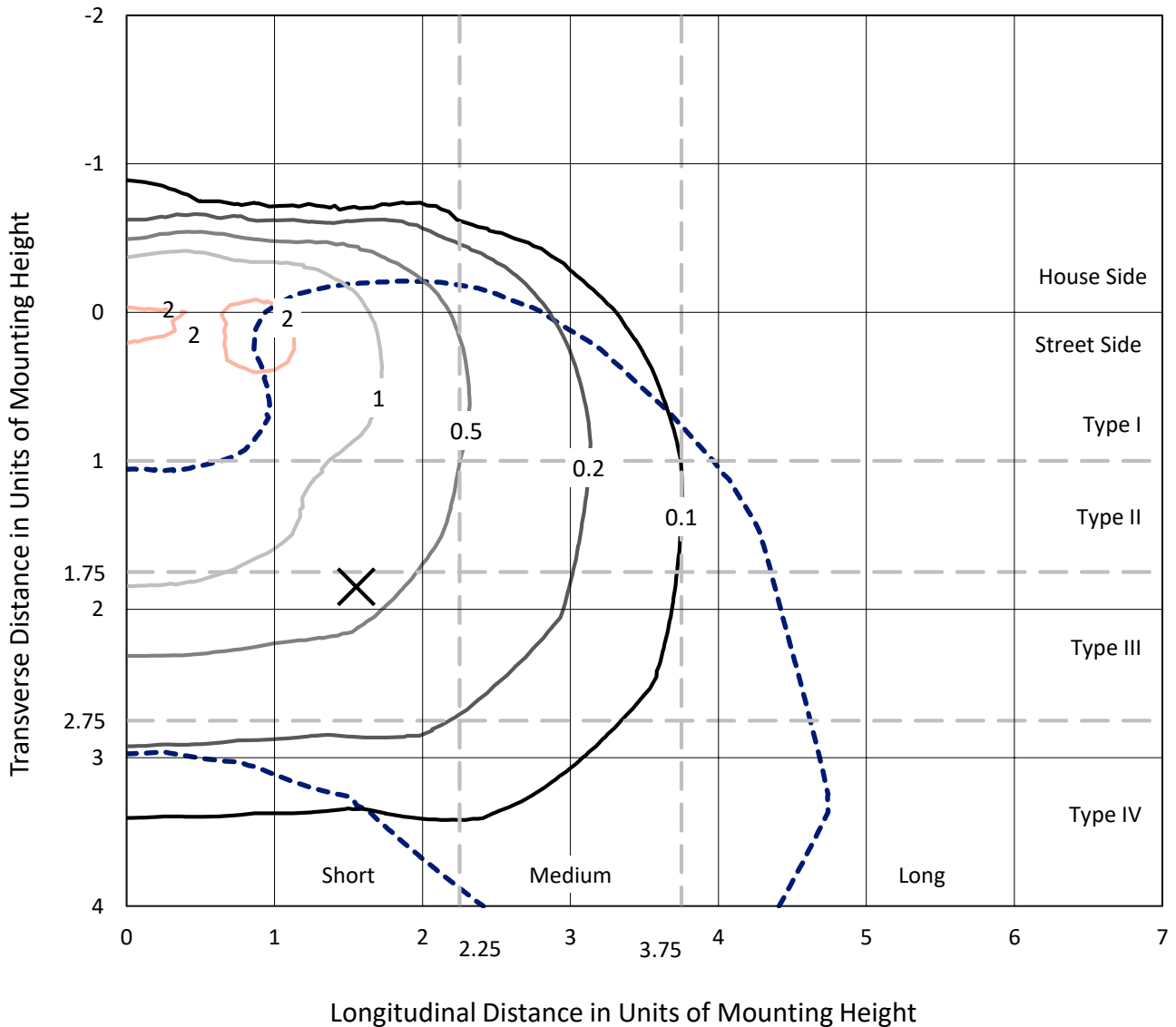
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

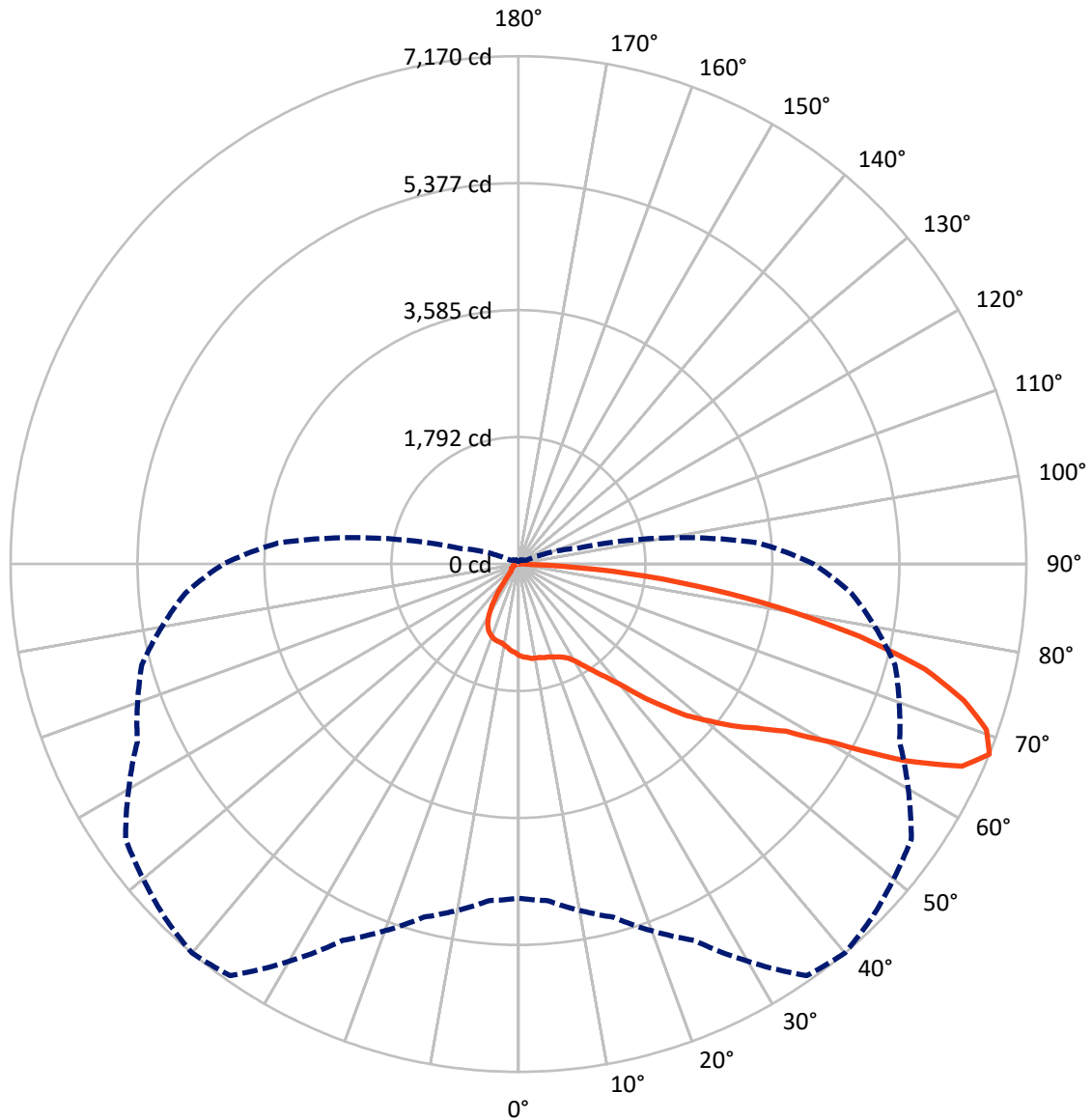
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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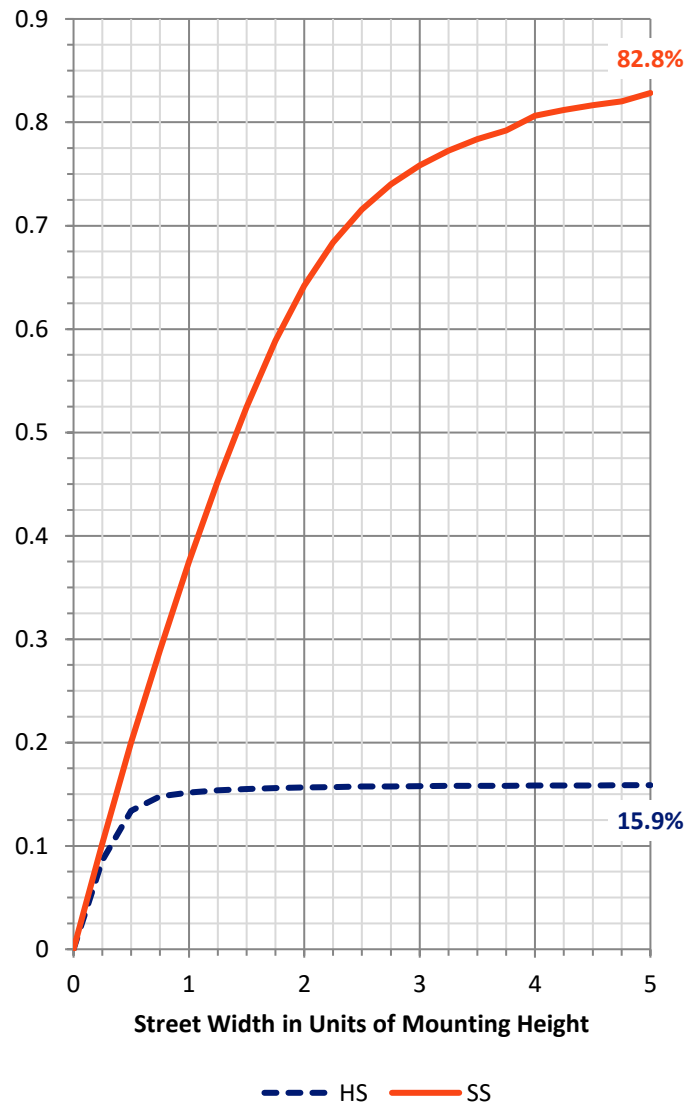
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1915.1	0.0	1915.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	10017.9	0.0	10017.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	11933.0	0.0	11933.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.0
10°-20°	362.6	3.0
20°-30°	603.2	5.1
30°-40°	948.5	7.9
40°-50°	1642.2	13.8
50°-60°	2427.5	20.3
60°-70°	3155.9	26.4
70°-80°	2258.9	18.9
80°-90°	411.9	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°	11933.0	100.0
0°-180°	11933.0	100.0



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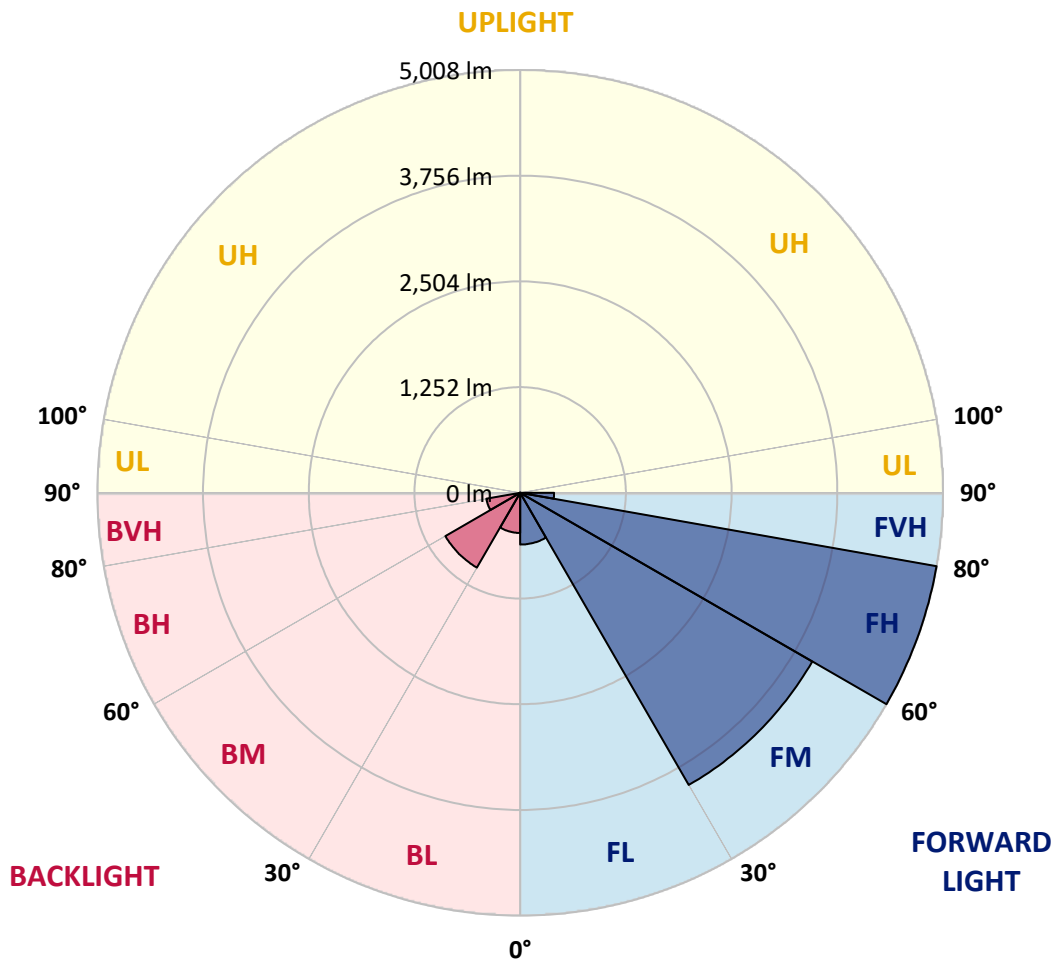
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.9	5.1			
FM (30°-60°)	3995.2	33.5			
FH (60°-80°)	5008.0	42.0			G3/7500
FVH (80°-90°)	401.8	3.4			G3/500
BL (0°-30°)	475.1	4.0	B1/500		
BM (30°-60°)	1023.0	8.6	B2/2500		
BH (60°-80°)	406.9	3.4	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1344.0	1343.1	1334.2	1329.8	1317.4	1313.0	1313.9	1308.5	1296.1	1297.9	1285.5
5°	1345.7	1352.0	1338.7	1335.1	1330.7	1325.4	1331.6	1324.5	1313.9	1317.4	1304.1
7.5°	1353.7	1356.4	1350.2	1346.6	1336.0	1346.6	1345.7	1339.5	1332.5	1326.3	1320.9
10°	1356.4	1353.7	1341.3	1338.7	1338.7	1349.3	1353.7	1356.4	1356.4	1346.6	1343.1
12.5°	1343.1	1341.3	1328.9	1334.2	1345.7	1352.8	1367.0	1375.9	1390.0	1379.4	1374.1
15°	1322.7	1327.1	1332.5	1334.2	1355.5	1371.4	1384.7	1400.7	1424.6	1424.6	1422.8
17.5°	1328.9	1337.8	1344.0	1352.8	1373.2	1378.5	1397.1	1422.8	1462.7	1465.4	1469.8
20°	1359.9	1359.9	1361.7	1367.9	1385.6	1401.6	1417.5	1450.3	1496.4	1511.4	1515.9
22.5°	1393.6	1391.8	1399.8	1398.9	1413.1	1423.7	1444.1	1472.4	1530.0	1558.4	1569.9
25°	1421.1	1426.4	1433.5	1424.6	1452.1	1456.5	1472.4	1507.0	1568.1	1618.6	1643.4
27.5°	1468.0	1471.6	1469.8	1474.2	1501.7	1504.3	1519.4	1569.0	1625.7	1694.8	1748.9
30°	1548.6	1536.2	1538.0	1547.7	1587.6	1592.9	1608.9	1656.7	1701.9	1793.2	1878.2
32.5°	1659.4	1659.4	1639.9	1658.5	1704.6	1718.7	1742.7	1814.4	1858.7	1907.4	2047.4
35°	1871.1	1871.1	1856.9	1808.2	1831.2	1866.7	1911.0	2010.2	2146.6	2306.1	2455.0
37.5°	2221.9	2216.6	2160.8	2073.1	2023.5	2035.9	2079.3	2239.7	2461.2	2850.1	2964.4
40°	2641.0	2625.9	2521.4	2399.1	2272.4	2251.2	2271.6	2472.7	2788.1	3364.8	3408.2
42.5°	3013.1	3012.2	2858.9	2755.3	2593.2	2557.7	2533.8	2708.3	3115.9	3738.7	3753.7
45°	3368.4	3359.5	3210.7	3098.1	2950.2	2859.8	2853.6	2975.9	3460.5	4075.3	4011.6
47.5°	3684.6	3697.9	3531.4	3423.3	3259.4	3197.4	3147.8	3252.3	3777.7	4362.4	4230.4
50°	4048.8	4072.7	3823.7	3705.0	3539.3	3478.2	3505.7	3582.8	4094.0	4597.2	4425.3
52.5°	4508.6	4432.4	4185.2	3981.4	3827.3	3797.2	3803.4	3910.6	4459.8	4789.4	4560.8
55°	5049.9	4937.4	4689.3	4371.3	4119.6	4091.3	4088.6	4197.6	4798.3	4969.3	4665.4
57.5°	5253.7	5312.1	5214.7	4979.9	4535.2	4451.9	4387.2	4488.2	5102.2	5167.7	4775.2
60°	5724.1	5787.0	5715.2	5564.6	5414.0	5124.3	4840.8	4831.1	5385.7	5357.3	4821.3
62.5°	5776.4	5756.0	6074.9	6128.1	6217.6	6105.0	5895.1	5285.5	5641.7	5453.9	4857.6
65°	5484.0	5486.7	5914.6	6206.9	6825.3	6882.9	6752.7	6008.5	5833.9	5492.0	4831.9
67.5°	4718.5	4770.8	5160.6	5861.4	7094.6	7169.9	7060.1	6771.3	5937.6	5505.3	4720.3
70°	4055.0	4056.7	4425.3	5280.2	6952.9	7009.6	6959.1	6820.9	5897.7	5399.8	4417.3
72.5°	3191.2	3181.4	3504.8	4368.6	6452.3	6572.8	6545.4	6640.2	5751.6	5018.9	3758.2
75°	2304.3	2323.8	2651.6	3364.8	5550.4	5924.3	6057.2	6346.0	5230.6	4262.3	2755.3
77.5°	1613.3	1632.8	1947.3	2556.0	4479.3	4930.3	5143.8	5397.2	4239.2	3159.3	1412.2
80°	1055.2	1072.9	1343.1	1919.8	3339.1	3723.6	3884.0	3732.5	2489.5	1327.1	155.0
82.5°	613.1	647.6	853.2	1317.4	2339.8	2522.3	2531.1	1964.1	930.2	118.7	72.6
85°	298.6	320.7	510.3	781.4	1280.2	1345.7	1248.3	730.9	217.1	56.7	41.6
87.5°	44.3	58.5	201.1	295.0	217.1	178.1	107.2	24.8	14.2	7.1	5.3
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°	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1278.4	1277.5	1280.2	1268.7	1269.6	1255.4	1250.1	1247.4	1259.8	1258.0	1266.9
5°	1294.4	1285.5	1284.6	1256.3	1253.6	1235.9	1225.3	1209.3	1221.7	1219.1	1219.1
7.5°	1304.1	1295.3	1289.9	1256.3	1233.2	1202.2	1184.5	1172.1	1171.2	1168.6	1169.4
10°	1320.1	1315.6	1287.3	1250.1	1219.1	1179.2	1145.5	1126.0	1117.2	1118.1	1111.9
12.5°	1355.5	1346.6	1308.5	1264.2	1214.6	1159.7	1116.3	1081.7	1064.0	1060.5	1050.7
15°	1406.0	1396.2	1348.4	1297.9	1226.1	1161.5	1096.8	1035.7	1005.5	993.1	984.3
17.5°	1465.4	1450.3	1395.4	1337.8	1250.1	1159.7	1078.2	995.8	938.2	905.4	902.8
20°	1512.3	1505.2	1442.3	1380.3	1265.1	1148.2	1047.2	938.2	852.3	792.0	779.6
22.5°	1574.3	1575.2	1505.2	1412.2	1277.5	1128.7	998.5	857.6	740.6	660.0	645.9
25°	1663.8	1650.5	1571.7	1437.9	1280.2	1106.5	932.0	756.6	604.2	513.8	497.9
27.5°	1771.0	1751.5	1625.7	1451.2	1268.7	1062.2	843.4	624.6	446.5	368.6	356.1
30°	1884.4	1838.3	1670.0	1456.5	1233.2	990.5	717.6	456.3	316.3	261.4	256.0
32.5°	2029.7	1962.4	1708.1	1438.8	1179.2	881.5	556.4	312.7	218.8	189.6	191.4
35°	2327.4	2162.6	1767.5	1419.3	1103.0	745.1	388.9	207.3	169.2	165.7	166.6
37.5°	2777.4	2516.1	1872.0	1390.9	989.6	569.7	249.8	160.4	161.2	161.2	161.2
40°	3212.4	2902.4	2032.4	1335.1	850.5	398.7	164.8	151.5	155.9	155.0	155.9
42.5°	3522.5	3189.4	2200.7	1266.9	690.2	252.5	148.0	142.6	145.3	144.4	147.1
45°	3774.1	3435.7	2354.0	1170.3	516.5	164.8	145.3	135.5	132.9	132.0	134.7
47.5°	3960.2	3597.8	2463.8	1049.8	344.6	141.8	139.1	124.9	121.4	121.4	122.3
50°	4140.9	3753.7	2496.6	912.5	212.6	138.2	131.1	116.1	110.7	109.0	110.7
52.5°	4266.7	3806.9	2503.7	757.5	142.6	134.7	121.4	105.4	99.2	98.3	99.2
55°	4373.9	3915.9	2446.1	564.3	127.6	126.7	112.5	94.8	87.7	91.3	93.0
57.5°	4400.5	3926.5	2330.9	373.0	126.7	116.1	102.8	85.1	79.7	83.3	84.2
60°	4467.8	3883.1	2187.4	229.5	124.0	103.7	91.3	75.3	71.8	72.6	74.4
62.5°	4410.2	3859.2	1942.0	160.4	114.3	94.8	85.1	69.1	62.9	62.0	62.0
65°	4351.8	3718.3	1484.8	132.9	101.9	88.6	77.1	61.1	54.0	50.5	50.5
67.5°	4165.7	3402.9	847.8	123.1	92.1	81.5	70.0	55.8	47.0	42.5	40.8
70°	3697.0	2726.1	261.4	112.5	93.0	76.2	64.7	48.7	40.8	34.6	33.7
72.5°	2895.3	1704.6	122.3	99.2	95.7	70.9	60.2	45.2	36.3	29.2	28.4
75°	1703.7	408.4	100.1	73.5	81.5	75.3	59.4	43.4	31.9	23.9	23.0
77.5°	370.3	99.2	89.5	49.6	61.1	72.6	56.7	38.1	28.4	18.6	17.7
80°	89.5	78.0	81.5	38.1	40.8	50.5	46.1	32.8	25.7	15.1	14.2
82.5°	60.2	58.5	71.8	23.9	20.4	18.6	19.5	20.4	21.3	11.5	10.6
85°	39.9	50.5	38.1	13.3	11.5	9.7	9.7	8.9	12.4	7.1	7.1
87.5°	6.2	5.3	6.2	5.3	5.3	4.4	3.5	3.5	2.7	3.5	3.5
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)