

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: P509441

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
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  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 930mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12265 lumens  
Efficiency: N/A  
Efficacy: 119.5 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

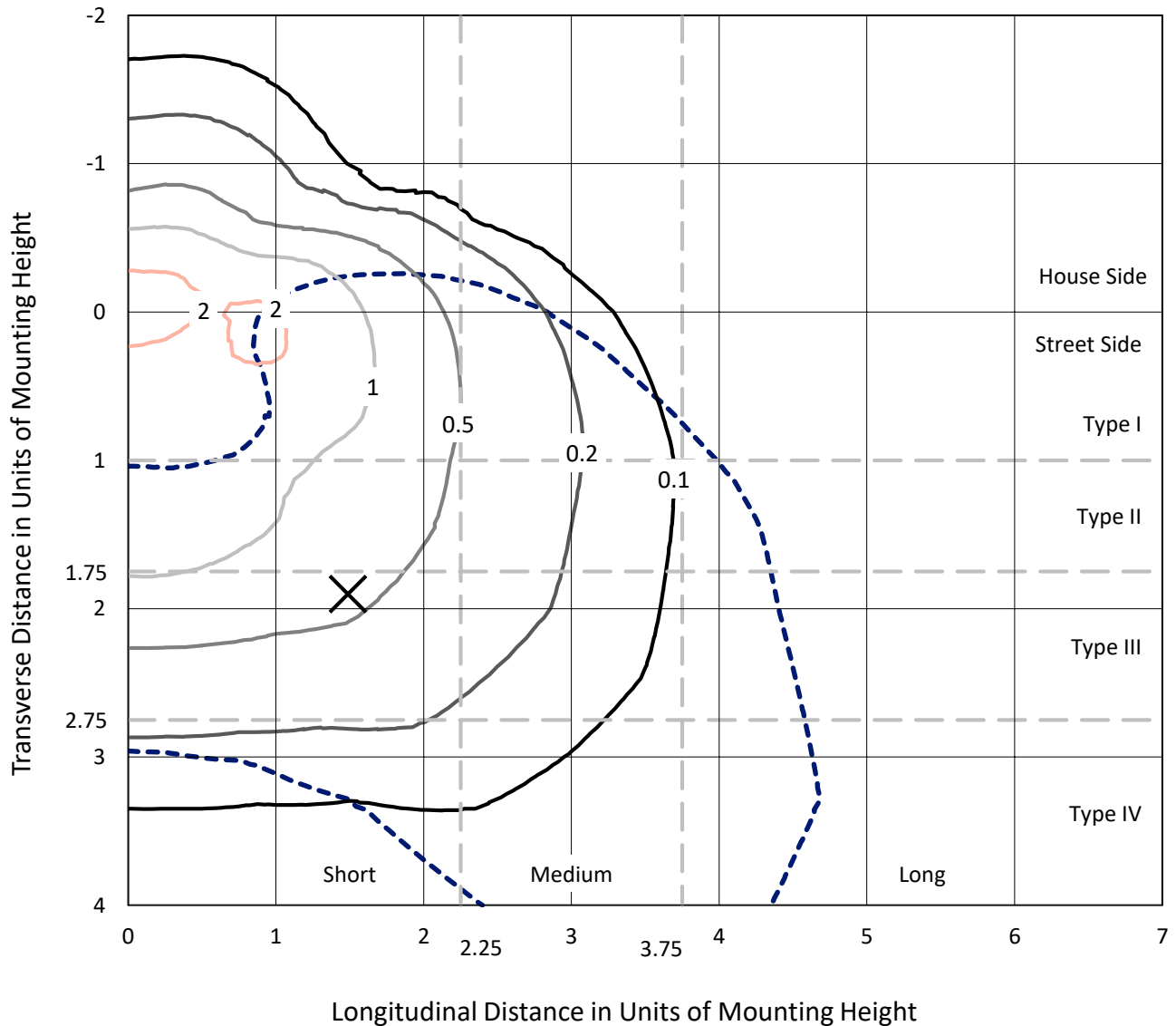
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

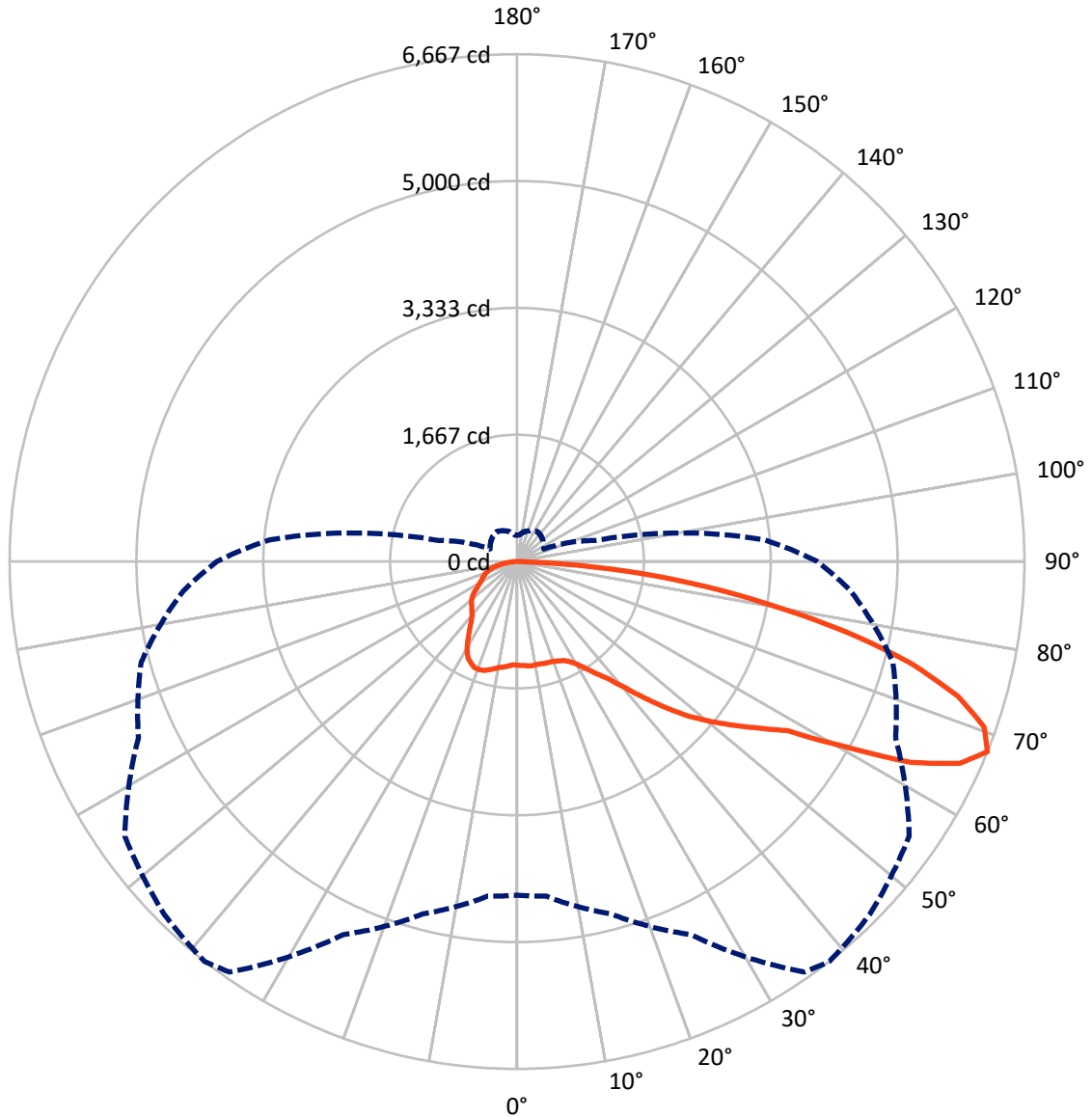
✕ Max cd  
 - - - 1/2 Max cd



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

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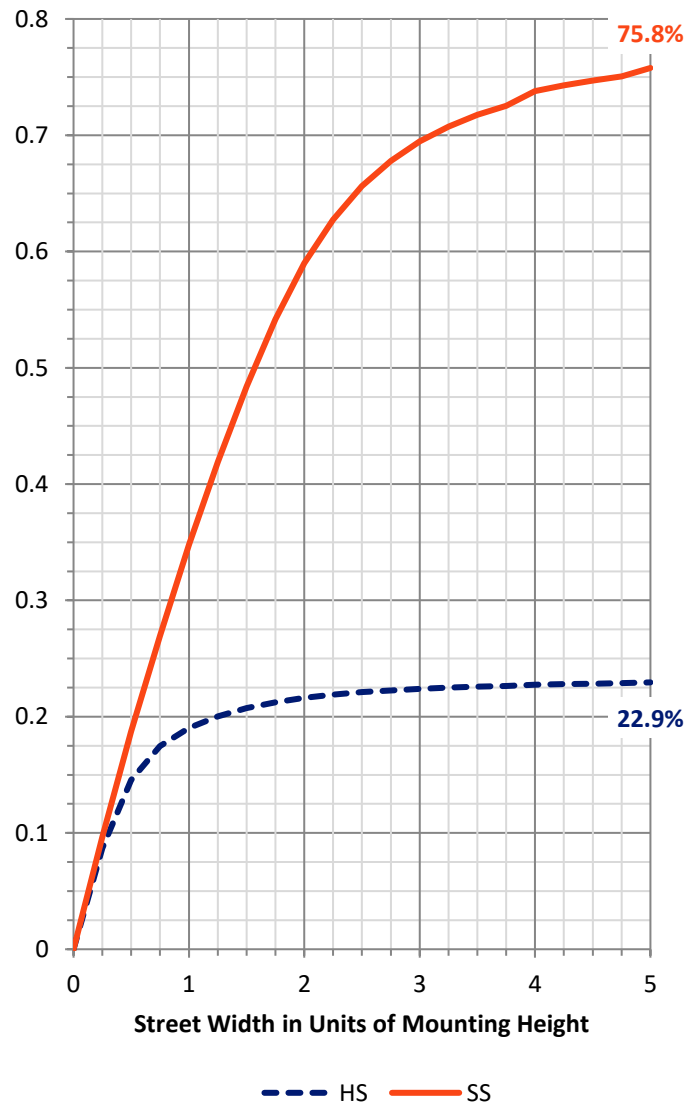
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2845.8	0.0	2845.8
	% Fixture	23.2	0.0	23.2
<b>Street Side</b>	Lumens	9419.2	0.0	9419.2
	% Fixture	76.8	0.0	76.8
<b>Total</b>	Lumens	12265.0	0.0	12265.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	1.1
10°-20°	407.7	3.3
20°-30°	691.1	5.6
30°-40°	1059.0	8.6
40°-50°	1745.0	14.2
50°-60°	2494.1	20.3
60°-70°	3107.0	25.3
70°-80°	2214.1	18.1
80°-90°	414.7	3.4
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°	12265.0	100.0
0°-180°	12265.0	100.0



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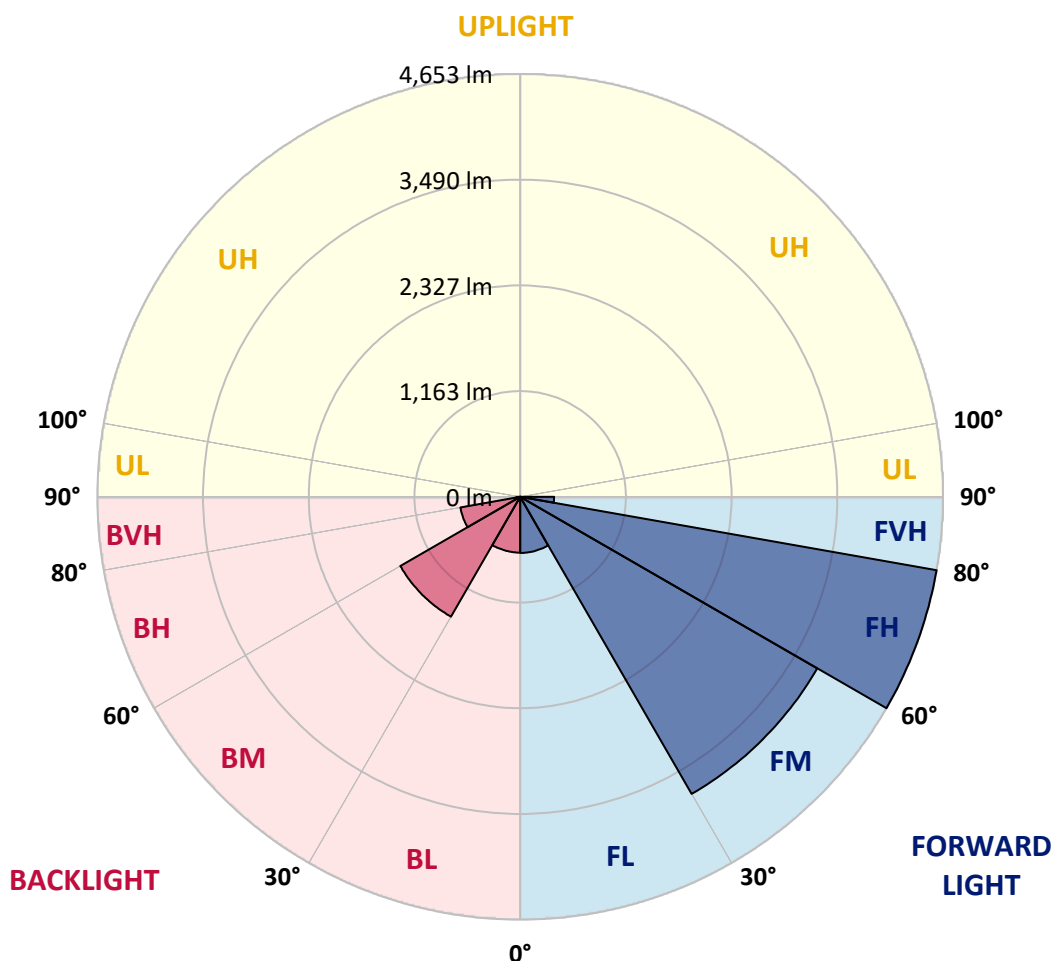
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.4	5.0			
FM (30°-60°)	3774.9	30.8			
FH (60°-80°)	4653.1	37.9			G2/5000
FVH (80°-90°)	373.9	3.0			G3/500
BL (0°-30°)	613.7	5.0	B2/1000		
BM (30°-60°)	1523.3	12.4	B2/2500		
BH (60°-80°)	668.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	40.9	0.3			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°	38°	45°	55°	65°	75°	85°
0°	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7
2.5°	1387.9	1393.6	1383.0	1381.4	1374.9	1366.7	1368.4	1361.9	1353.7	1357.0	1358.6
5°	1396.1	1396.1	1387.9	1379.8	1376.5	1374.9	1376.5	1369.2	1367.6	1373.3	1368.4
7.5°	1388.7	1393.6	1379.8	1379.8	1374.1	1383.9	1384.7	1375.7	1382.2	1382.2	1381.4
10°	1387.1	1388.7	1383.0	1371.6	1370.8	1376.5	1387.9	1391.2	1394.5	1393.6	1396.9
12.5°	1368.4	1366.7	1355.3	1358.6	1374.1	1379.8	1399.3	1408.3	1420.5	1423.8	1425.4
15°	1344.7	1351.3	1352.1	1361.9	1378.2	1387.1	1406.7	1424.6	1451.5	1458.0	1457.2
17.5°	1347.2	1349.6	1353.7	1359.4	1384.7	1388.7	1420.5	1440.1	1473.5	1496.3	1507.7
20°	1362.7	1357.8	1365.9	1380.6	1394.5	1397.7	1431.1	1461.3	1506.9	1537.1	1550.1
22.5°	1388.7	1389.6	1393.6	1393.6	1403.4	1418.1	1449.1	1472.7	1528.9	1571.3	1594.1
25°	1413.2	1414.8	1419.7	1418.1	1434.4	1440.9	1470.2	1506.1	1570.5	1620.2	1664.2
27.5°	1449.9	1454.8	1451.5	1452.3	1484.1	1490.6	1503.7	1551.7	1617.8	1684.6	1762.8
30°	1518.3	1518.3	1515.1	1518.3	1552.6	1568.9	1572.9	1620.2	1674.0	1754.7	1872.9
32.5°	1616.9	1617.8	1597.4	1613.7	1652.0	1680.5	1692.7	1767.7	1828.0	1867.1	2019.5
35°	1828.0	1819.1	1797.9	1750.6	1775.1	1810.1	1849.2	1944.6	2077.4	2223.3	2376.5
37.5°	2151.6	2150.8	2075.8	1981.2	1938.9	1956.8	2011.4	2154.0	2361.8	2726.1	2861.4
40°	2511.0	2520.0	2411.6	2293.4	2168.7	2170.3	2184.2	2362.7	2663.4	3189.9	3260.8
42.5°	2869.6	2854.9	2735.1	2621.8	2452.3	2441.7	2405.0	2573.7	2978.8	3560.7	3570.5
45°	3189.1	3181.7	3048.9	2934.0	2774.2	2733.5	2691.9	2799.5	3279.5	3860.6	3796.2
47.5°	3489.0	3498.8	3315.4	3211.9	3053.8	3033.4	2985.3	3053.8	3577.0	4096.1	3979.6
50°	3830.5	3834.5	3615.3	3487.4	3330.9	3304.8	3286.0	3373.3	3884.3	4321.1	4166.2
52.5°	4212.7	4132.8	3919.3	3743.3	3593.3	3573.7	3563.1	3654.4	4220.8	4518.3	4289.3
55°	4693.5	4586.8	4368.4	4076.6	3858.2	3861.4	3824.8	3931.5	4504.5	4654.4	4409.1
57.5°	4903.8	4928.3	4887.5	4621.8	4238.8	4191.5	4101.0	4183.4	4774.2	4814.2	4503.6
60°	5299.9	5394.4	5306.4	5158.1	5044.8	4920.9	4479.2	4510.2	5020.3	4991.0	4514.2
62.5°	5326.8	5359.4	5637.3	5660.9	5771.0	5812.5	5446.6	4881.0	5243.7	5079.8	4550.1
65°	5062.7	5099.4	5434.4	5728.6	6334.1	6391.2	6275.4	5559.9	5424.6	5127.9	4521.6
67.5°	4383.8	4414.0	4794.6	5409.1	6584.3	6666.6	6554.2	6290.1	5488.2	5111.6	4396.1
70°	3749.8	3766.9	4083.1	4942.9	6412.4	6509.3	6464.5	6317.8	5485.7	5015.5	4119.0
72.5°	2945.4	2995.1	3250.2	4099.4	5978.0	6059.5	6072.5	6147.5	5346.3	4699.2	3499.6
75°	2136.1	2163.0	2452.3	3185.0	5159.7	5354.5	5583.5	5866.3	4822.3	3989.4	2587.6
77.5°	1505.3	1531.4	1803.6	2414.8	4176.0	4397.7	4811.7	4978.0	3912.8	2990.2	1361.9
80°	991.0	987.8	1246.9	1787.3	3133.6	3289.3	3596.6	3374.1	2270.6	1299.9	148.3
82.5°	581.9	614.5	798.7	1228.2	2189.9	2276.3	2268.1	1776.7	901.4	134.5	75.8
85°	335.8	348.0	471.1	727.8	1207.0	1219.2	1092.1	689.5	223.3	60.3	44.8
87.5°	150.0	144.3	187.4	240.4	220.0	163.8	101.9	28.5	17.1	11.4	7.3
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°	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7	1362.7
2.5°	1352.1	1348.0	1368.4	1357.0	1366.7	1361.0	1356.1	1362.7	1374.9	1385.5	1379.0
5°	1362.7	1365.1	1381.4	1367.6	1380.6	1378.2	1371.6	1379.0	1398.5	1408.3	1407.5
7.5°	1374.9	1376.5	1393.6	1387.9	1393.6	1388.7	1399.3	1394.5	1411.6	1418.1	1414.0
10°	1389.6	1392.0	1407.5	1408.3	1410.8	1407.5	1412.4	1414.8	1424.6	1437.6	1429.5
12.5°	1421.3	1427.1	1438.5	1450.7	1449.1	1436.0	1440.1	1427.1	1436.0	1440.1	1446.6
15°	1465.4	1479.2	1485.7	1502.8	1487.4	1480.0	1464.5	1438.5	1430.3	1426.2	1419.7
17.5°	1512.6	1525.7	1537.9	1559.9	1534.6	1515.1	1488.2	1439.3	1402.6	1389.6	1383.9
20°	1565.6	1577.8	1599.8	1614.5	1577.0	1534.6	1491.4	1419.7	1347.2	1297.5	1303.2
22.5°	1625.1	1652.0	1666.7	1662.6	1609.6	1551.7	1477.6	1368.4	1275.5	1201.3	1196.4
25°	1707.4	1722.9	1728.6	1691.1	1627.5	1539.5	1431.1	1307.2	1177.7	1094.5	1082.3
27.5°	1793.8	1810.1	1779.9	1709.9	1621.8	1511.0	1379.0	1202.9	1064.4	984.5	975.5
30°	1904.6	1900.6	1815.0	1704.1	1589.2	1442.5	1283.6	1096.2	968.2	894.0	890.0
32.5°	2025.3	1995.1	1843.5	1676.4	1527.3	1352.9	1162.2	995.1	896.5	822.3	819.1
35°	2310.5	2172.0	1885.1	1641.4	1436.0	1229.0	1049.7	919.3	839.4	755.5	739.2
37.5°	2729.4	2506.1	1970.7	1605.5	1331.7	1106.8	956.0	863.1	787.3	697.6	682.1
40°	3119.8	2846.0	2120.6	1578.6	1238.0	1008.1	891.6	824.0	750.6	661.0	641.4
42.5°	3396.9	3110.0	2300.7	1534.6	1144.2	929.9	864.7	809.3	740.8	657.7	642.2
45°	3620.2	3338.2	2479.2	1484.9	1034.2	863.1	837.0	797.1	728.6	647.9	630.0
47.5°	3777.5	3481.6	2603.1	1428.7	929.1	822.3	813.4	777.5	709.9	634.1	622.7
50°	3939.7	3642.2	2687.8	1370.8	834.6	791.4	780.8	733.5	671.6	603.9	591.7
52.5°	4045.6	3720.4	2736.7	1359.4	753.9	749.0	735.9	691.1	632.4	559.1	544.4
55°	4126.3	3789.7	2729.4	1292.6	681.3	693.6	685.4	652.0	600.6	528.9	519.1
57.5°	4145.9	3800.3	2662.6	1085.6	612.9	619.4	623.5	630.0	580.3	520.8	504.5
60°	4202.1	3750.6	2544.4	780.8	532.2	548.5	581.1	586.8	552.6	484.9	475.1
62.5°	4166.2	3717.2	2287.7	550.1	475.1	508.6	539.5	539.5	492.3	429.5	423.0
65°	4103.5	3585.1	1789.7	433.6	445.0	479.2	507.7	488.2	447.4	388.8	384.7
67.5°	3943.7	3263.2	1068.5	390.4	423.8	456.4	476.8	447.4	409.1	351.3	344.7
70°	3484.9	2600.6	406.7	370.0	402.6	425.4	438.5	408.3	370.8	313.0	307.3
72.5°	2766.9	1626.7	258.4	344.7	375.7	396.1	404.2	369.2	309.7	243.7	237.2
75°	1665.0	464.5	224.1	298.3	330.9	365.9	352.1	306.4	261.6	204.6	200.5
77.5°	421.4	141.0	199.7	240.4	268.9	310.5	309.7	276.3	228.2	167.1	160.6
80°	101.1	98.6	162.2	177.7	202.9	238.0	234.7	229.8	180.9	115.7	95.4
82.5°	64.4	68.5	110.0	99.4	115.7	138.5	157.3	148.3	135.3	70.9	63.6
85°	43.2	54.6	53.8	37.5	52.2	78.2	101.9	92.9	76.6	44.0	39.1
87.5°	6.5	7.3	9.8	14.7	22.8	38.3	50.5	49.7	37.5	27.7	26.1
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)