

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: P509496

Luminaire Tested: **VERD-G-CA2-110-727-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509496
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-CA2-110-727-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12399 lumens
Efficiency: N/A
Efficacy: 109.5 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

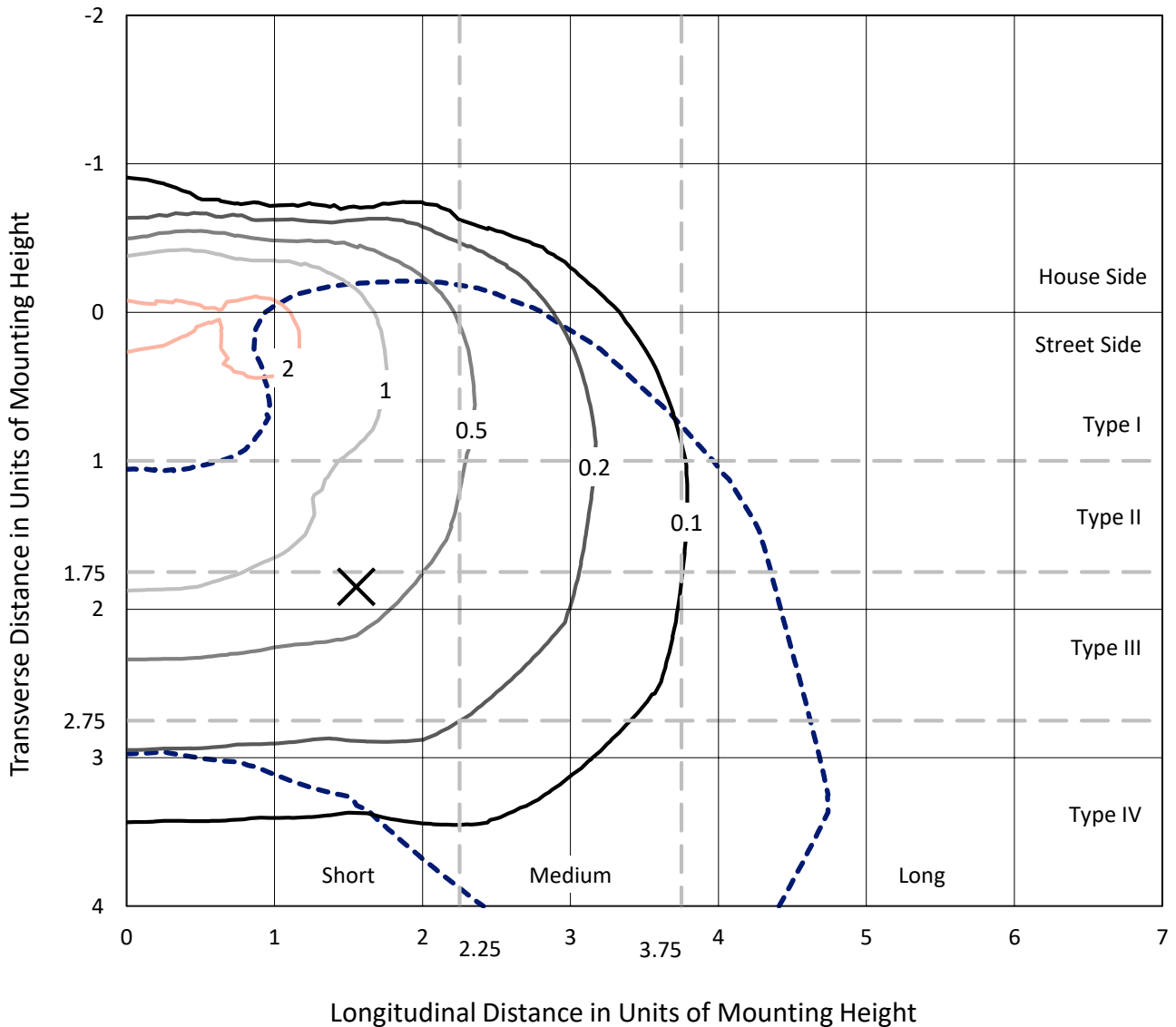
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

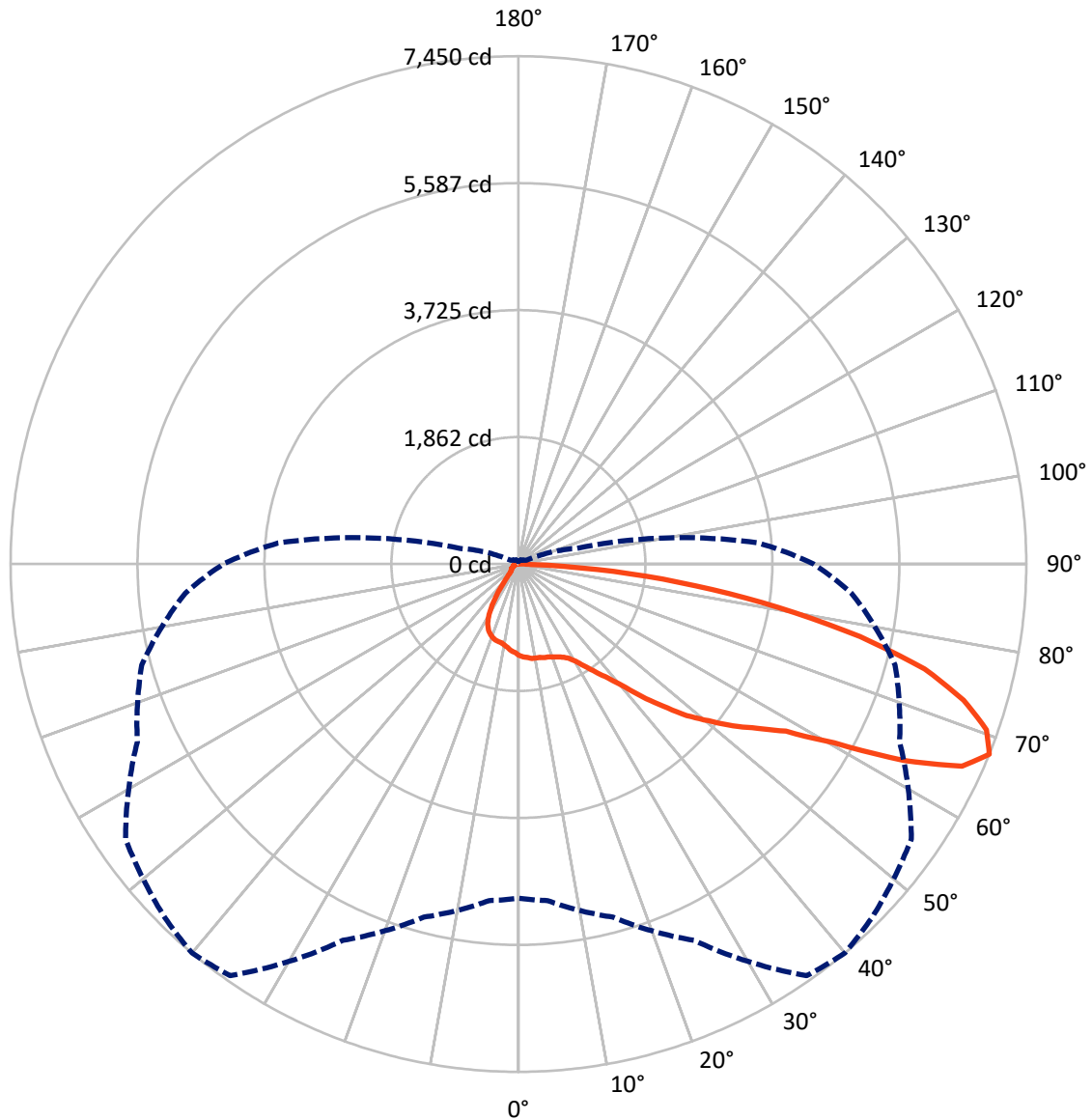
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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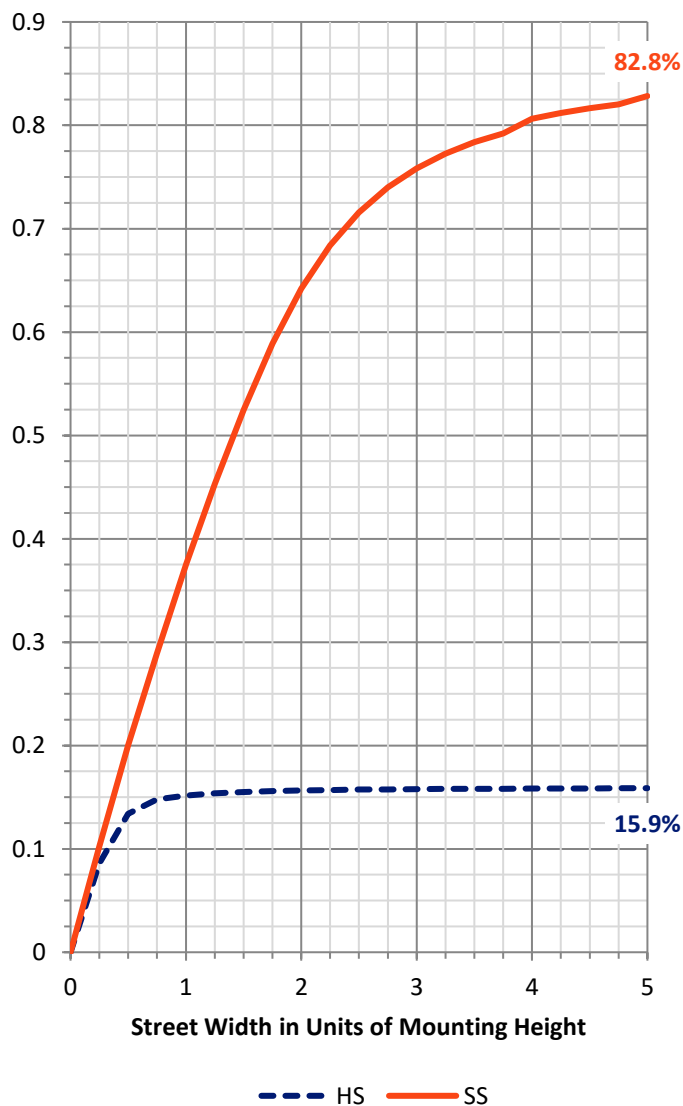
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.8	0.0	1989.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	10409.2	0.0	10409.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	12399.0	0.0	12399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	1.0
10°-20°	376.7	3.0
20°-30°	626.7	5.1
30°-40°	985.5	7.9
40°-50°	1706.4	13.8
50°-60°	2522.3	20.3
60°-70°	3279.2	26.4
70°-80°	2347.1	18.9
80°-90°	428.0	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°	12399.0	100.0
0°-180°	12399.0	100.0

Coefficient of Utilization



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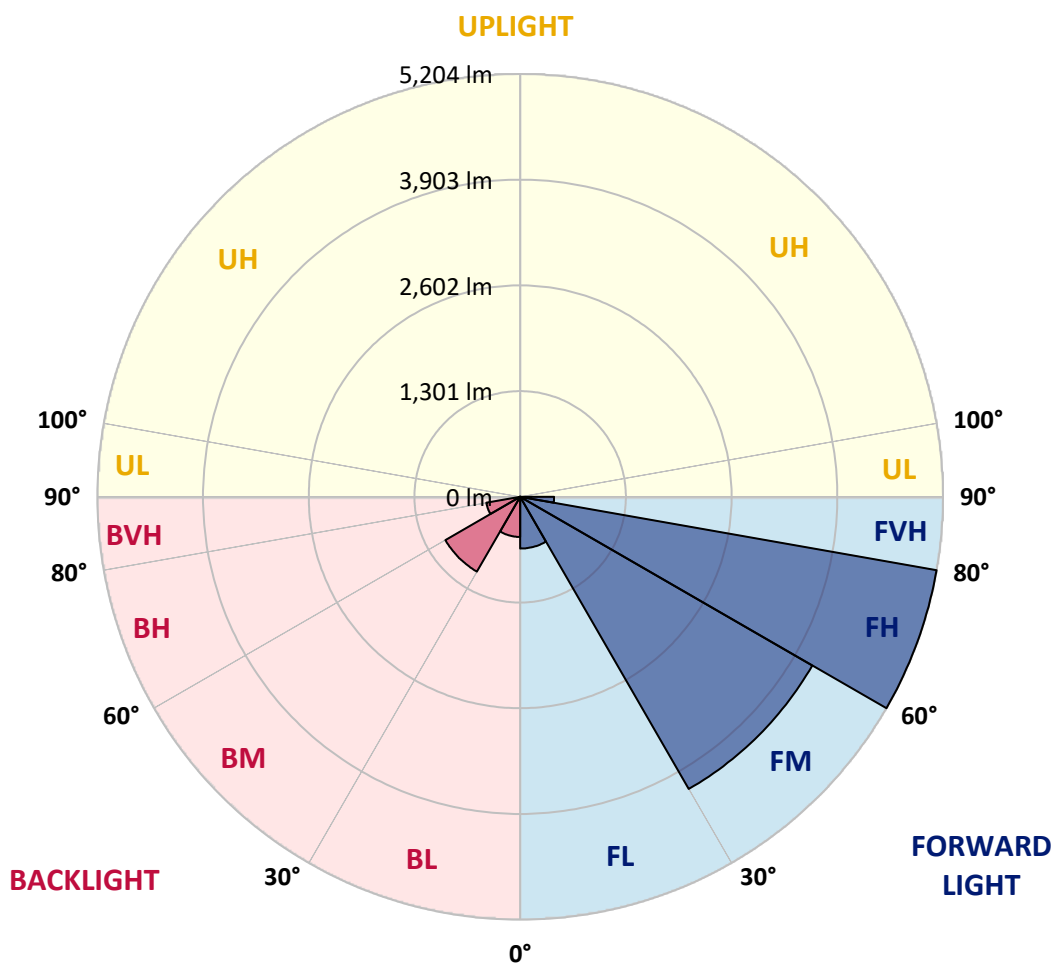
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.8	5.1			
FM (30°-60°)	4151.3	33.5			
FH (60°-80°)	5203.6	42.0			G3/7500
FVH (80°-90°)	417.5	3.4			G3/500
BL (0°-30°)	493.6	4.0	B1/500		
BM (30°-60°)	1062.9	8.6	B2/2500		
BH (60°-80°)	422.8	3.4	B1/500		G1/500
BVH (80°-90°)	10.5	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°	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1396.5	1395.5	1386.3	1381.7	1368.8	1364.2	1365.2	1359.6	1346.8	1348.6	1335.7
5°	1398.3	1404.7	1390.9	1387.3	1382.7	1377.1	1383.6	1376.2	1365.2	1368.8	1355.0
7.5°	1406.6	1409.3	1402.9	1399.2	1388.2	1399.2	1398.3	1391.9	1384.5	1378.1	1372.5
10°	1409.3	1406.6	1393.7	1390.9	1390.9	1402.0	1406.6	1409.3	1409.3	1399.2	1395.5
12.5°	1395.5	1393.7	1380.8	1386.3	1398.3	1405.7	1420.4	1429.6	1444.3	1433.3	1427.8
15°	1374.4	1379.0	1384.5	1386.3	1408.4	1425.0	1438.8	1455.4	1480.2	1480.2	1478.4
17.5°	1380.8	1390.0	1396.5	1405.7	1426.8	1432.4	1451.7	1478.4	1519.8	1522.6	1527.2
20°	1413.0	1413.0	1414.9	1421.3	1439.7	1456.3	1472.9	1506.9	1554.8	1570.4	1575.0
22.5°	1448.0	1446.2	1454.5	1453.5	1468.3	1479.3	1500.5	1529.9	1589.8	1619.2	1631.2
25°	1476.5	1482.1	1489.4	1480.2	1508.8	1513.4	1529.9	1565.8	1629.4	1681.8	1707.6
27.5°	1525.3	1529.0	1527.2	1531.8	1560.3	1563.1	1578.7	1630.3	1689.2	1761.0	1817.1
30°	1609.1	1596.2	1598.1	1608.2	1649.6	1655.1	1671.7	1721.4	1768.4	1863.2	1951.5
32.5°	1724.2	1724.2	1703.9	1723.3	1771.1	1785.9	1810.7	1885.3	1931.3	1981.9	2127.4
35°	1944.2	1944.2	1929.5	1878.8	1902.8	1939.6	1985.6	2088.7	2230.5	2396.2	2550.8
37.5°	2308.7	2303.2	2245.2	2154.1	2102.5	2115.4	2160.5	2327.1	2557.3	2961.4	3080.1
40°	2744.1	2728.5	2619.9	2492.8	2361.2	2339.1	2360.3	2569.2	2896.9	3496.2	3541.3
42.5°	3130.8	3129.8	2970.6	2862.9	2694.4	2657.6	2632.8	2814.1	3237.5	3884.7	3900.3
45°	3499.9	3490.7	3336.0	3219.1	3065.4	2971.5	2965.1	3092.1	3595.6	4234.5	4168.2
47.5°	3828.5	3842.3	3669.3	3557.0	3386.7	3322.2	3270.7	3379.3	3925.2	4532.7	4395.6
50°	4206.9	4231.7	3973.1	3849.7	3677.6	3614.0	3642.6	3722.7	4253.8	4776.7	4598.1
52.5°	4684.6	4605.5	4348.6	4136.9	3976.7	3945.4	3951.9	4063.3	4634.0	4976.4	4739.0
55°	5247.1	5130.2	4872.4	4542.0	4280.5	4251.1	4248.3	4361.5	4985.7	5163.3	4847.6
57.5°	5458.8	5519.6	5418.3	5174.4	4712.3	4625.7	4558.5	4663.5	5301.4	5369.5	4961.7
60°	5947.6	6013.0	5938.4	5781.9	5625.4	5324.4	5029.8	5019.7	5596.0	5566.5	5009.6
62.5°	6001.9	5980.8	6312.2	6367.4	6460.4	6343.5	6125.3	5492.0	5862.0	5666.9	5047.3
65°	5698.2	5700.9	6145.5	6449.3	7091.9	7151.7	7016.4	6243.1	6061.8	5706.4	5020.6
67.5°	4902.8	4957.1	5362.2	6090.3	7371.7	7449.9	7335.8	7035.7	6169.5	5720.2	4904.6
70°	4213.3	4215.2	4598.1	5486.4	7224.4	7283.3	7230.9	7087.3	6128.0	5610.7	4589.8
72.5°	3315.8	3305.7	3641.7	4539.2	6704.3	6829.5	6801.0	6899.5	5976.2	5214.9	3904.9
75°	2394.3	2414.6	2755.2	3496.2	5767.2	6155.7	6293.7	6593.8	5434.9	4428.7	2862.9
77.5°	1676.3	1696.6	2023.4	2655.8	4654.3	5122.8	5344.7	5607.9	4404.8	3282.7	1467.3
80°	1096.4	1114.8	1395.5	1994.8	3469.5	3869.0	4035.7	3878.2	2586.7	1379.0	161.1
82.5°	637.0	672.9	886.5	1368.8	2431.2	2620.8	2630.0	2040.8	966.6	123.4	75.5
85°	310.2	333.2	530.2	811.9	1330.2	1398.3	1297.0	759.4	225.5	58.9	43.3
87.5°	46.0	60.8	209.0	306.5	225.5	185.0	111.4	25.8	14.7	7.4	5.5
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°	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1328.3	1327.4	1330.2	1318.2	1319.1	1304.4	1298.9	1296.1	1309.0	1307.2	1316.4
5°	1344.9	1335.7	1334.8	1305.3	1302.6	1284.2	1273.1	1256.5	1269.4	1266.7	1266.7
7.5°	1355.0	1345.8	1340.3	1305.3	1281.4	1249.2	1230.8	1217.9	1217.0	1214.2	1215.1
10°	1371.6	1367.0	1337.5	1298.9	1266.7	1225.2	1190.3	1170.0	1160.8	1161.7	1155.3
12.5°	1408.4	1399.2	1359.6	1313.6	1262.1	1205.0	1159.9	1124.0	1105.6	1101.9	1091.8
15°	1460.9	1450.8	1401.1	1348.6	1274.0	1206.8	1139.6	1076.1	1044.8	1031.9	1022.7
17.5°	1522.6	1506.9	1449.9	1390.0	1298.9	1205.0	1120.3	1034.7	974.9	940.8	938.0
20°	1571.4	1564.0	1498.6	1434.2	1314.5	1193.0	1088.1	974.9	885.6	823.0	810.1
22.5°	1635.8	1636.7	1564.0	1467.3	1327.4	1172.8	1037.5	891.1	769.6	685.8	671.1
25°	1728.8	1715.0	1633.0	1494.0	1330.2	1149.8	968.4	786.1	627.8	533.9	517.3
27.5°	1840.2	1819.9	1689.2	1507.8	1318.2	1103.7	876.4	649.0	464.0	382.9	370.1
30°	1958.0	1910.1	1735.2	1513.4	1281.4	1029.2	745.6	474.1	328.6	271.6	266.0
32.5°	2109.0	2039.0	1774.8	1495.0	1225.2	915.9	578.1	325.0	227.4	197.0	198.8
35°	2418.3	2247.0	1836.5	1474.7	1146.1	774.2	404.1	215.4	175.8	172.1	173.1
37.5°	2885.9	2614.3	1945.1	1445.3	1028.2	591.9	259.6	166.6	167.5	167.5	167.5
40°	3337.9	3015.7	2111.7	1387.3	883.7	414.2	171.2	157.4	162.0	161.1	162.0
42.5°	3660.1	3314.0	2286.6	1316.4	717.1	262.4	153.7	148.2	151.0	150.0	152.8
45°	3921.5	3569.9	2445.9	1216.0	536.7	171.2	151.0	140.8	138.1	137.2	139.9
47.5°	4114.8	3738.3	2560.0	1090.8	358.1	147.3	144.5	129.8	126.1	126.1	127.0
50°	4302.6	3900.3	2594.1	948.2	220.9	143.6	136.2	120.6	115.1	113.2	115.1
52.5°	4433.3	3955.6	2601.5	787.1	148.2	139.9	126.1	109.5	103.1	102.2	103.1
55°	4544.7	4068.8	2541.6	586.4	132.6	131.6	116.9	98.5	91.1	94.8	96.7
57.5°	4572.3	4079.8	2421.9	387.5	131.6	120.6	106.8	88.4	82.8	86.5	87.5
60°	4642.3	4034.7	2272.8	238.4	128.9	107.7	94.8	78.2	74.6	75.5	77.3
62.5°	4582.5	4009.9	2017.8	166.6	118.7	98.5	88.4	71.8	65.4	64.4	64.4
65°	4521.7	3863.5	1542.8	138.1	105.9	92.1	80.1	63.5	56.2	52.5	52.5
67.5°	4328.4	3535.8	881.0	128.0	95.7	84.7	72.7	58.0	48.8	44.2	42.3
70°	3841.4	2832.5	271.6	116.9	96.7	79.2	67.2	50.6	42.3	35.9	35.0
72.5°	3008.3	1771.1	127.0	103.1	99.4	73.6	62.6	46.9	37.7	30.4	29.5
75°	1770.2	424.4	104.0	76.4	84.7	78.2	61.7	45.1	33.1	24.9	23.9
77.5°	384.8	103.1	93.0	51.6	63.5	75.5	58.9	39.6	29.5	19.3	18.4
80°	93.0	81.0	84.7	39.6	42.3	52.5	47.9	34.1	26.7	15.6	14.7
82.5°	62.6	60.8	74.6	24.9	21.2	19.3	20.3	21.2	22.1	12.0	11.0
85°	41.4	52.5	39.6	13.8	12.0	10.1	10.1	9.2	12.9	7.4	7.4
87.5°	6.4	5.5	6.4	5.5	5.5	4.6	3.7	3.7	2.8	3.7	3.7
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)