

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: P509472

Luminaire Tested: **VERD-G-CA2-100-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509472
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-CA2-100-750-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13716 lumens
Efficiency: N/A
Efficacy: 133.7 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

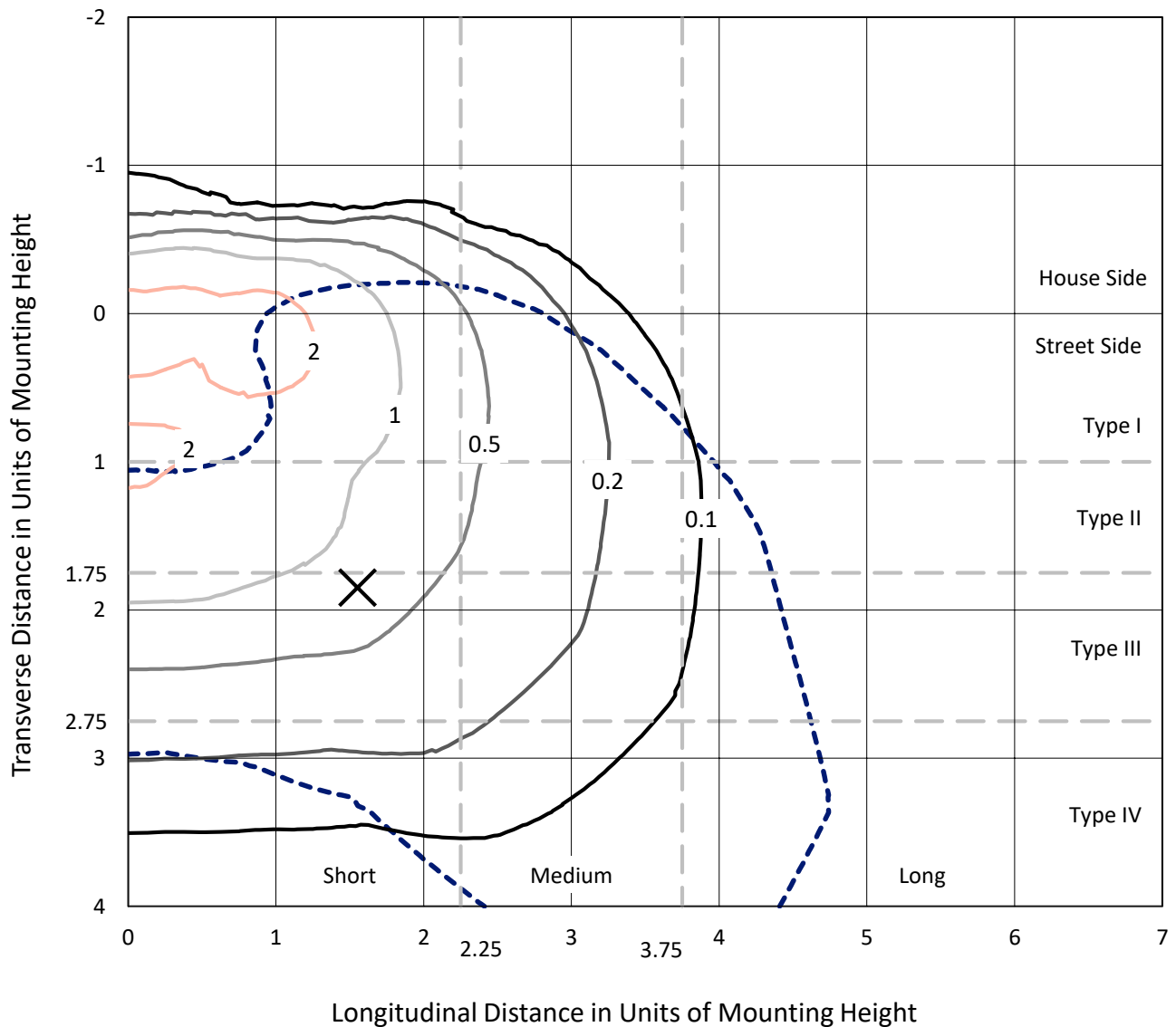
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

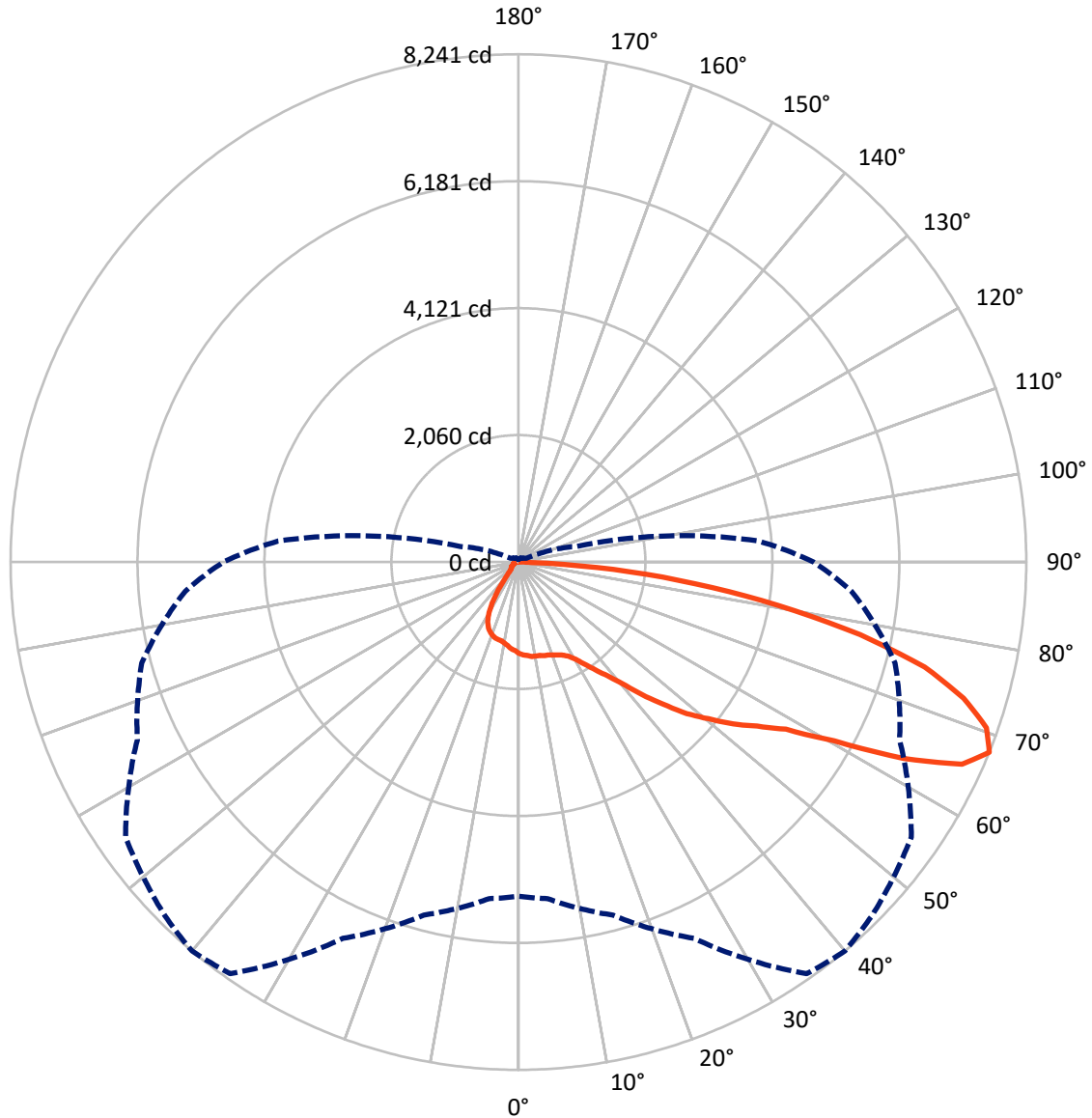
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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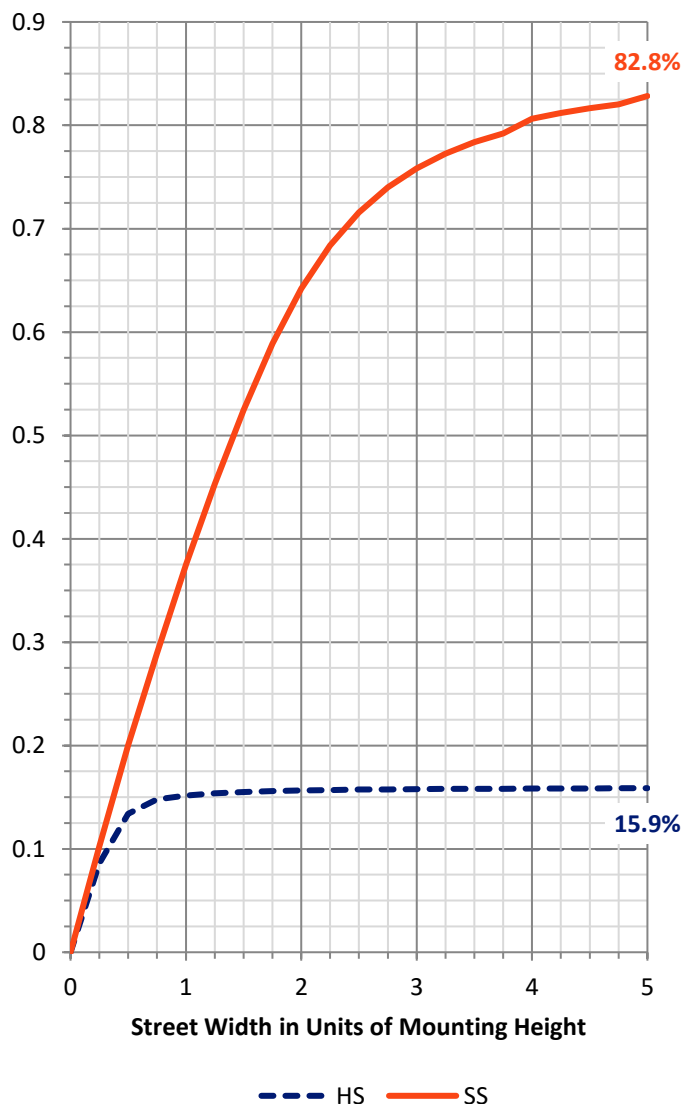
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2201.2	0.0	2201.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	11514.8	0.0	11514.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	13716.0	0.0	13716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.0
10°-20°	416.7	3.0
20°-30°	693.3	5.1
30°-40°	1090.2	7.9
40°-50°	1887.6	13.8
50°-60°	2790.2	20.3
60°-70°	3627.5	26.4
70°-80°	2596.5	18.9
80°-90°	473.5	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°	13716.0	100.0
0°-180°	13716.0	100.0

Coefficient of Utilization



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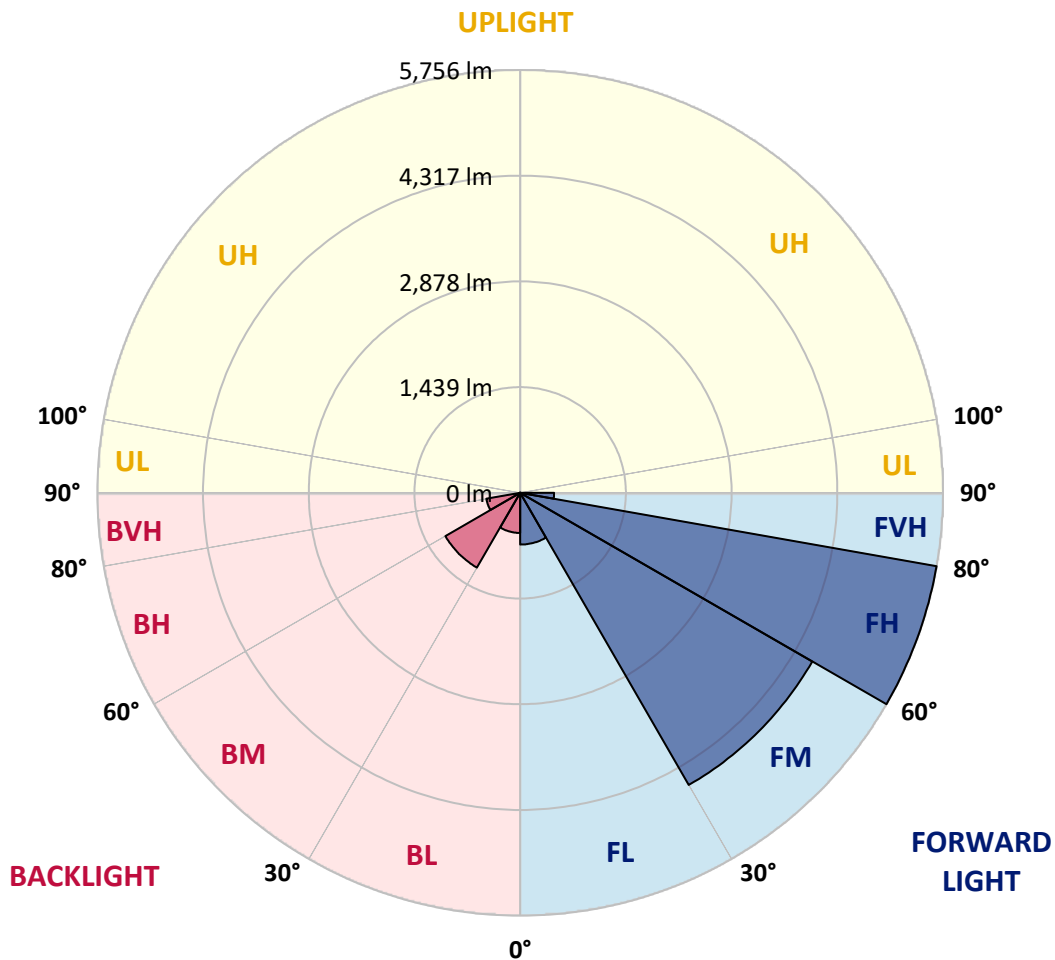
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.5	5.1			
FM (30°-60°)	4592.2	33.5			
FH (60°-80°)	5756.3	42.0			G3/7500
FVH (80°-90°)	461.8	3.4			G3/500
BL (0°-30°)	546.1	4.0	B2/1000		
BM (30°-60°)	1175.8	8.6	B2/2500		
BH (60°-80°)	467.7	3.4	B1/500		G1/500
BVH (80°-90°)	11.6	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°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1544.8	1543.8	1533.6	1528.5	1514.2	1509.2	1510.2	1504.1	1489.8	1491.8	1477.6
5°	1546.8	1554.0	1538.7	1534.6	1529.5	1523.4	1530.5	1522.4	1510.2	1514.2	1499.0
7.5°	1556.0	1559.0	1551.9	1547.8	1535.6	1547.8	1546.8	1539.7	1531.6	1524.4	1518.3
10°	1559.0	1556.0	1541.7	1538.7	1538.7	1550.9	1556.0	1559.0	1559.0	1547.8	1543.8
12.5°	1543.8	1541.7	1527.5	1533.6	1546.8	1555.0	1571.3	1581.5	1597.7	1585.5	1579.4
15°	1520.4	1525.4	1531.6	1533.6	1558.0	1576.4	1591.6	1610.0	1637.5	1637.5	1635.4
17.5°	1527.5	1537.7	1544.8	1555.0	1578.4	1584.5	1605.9	1635.4	1681.2	1684.3	1689.4
20°	1563.1	1563.1	1565.2	1572.3	1592.7	1611.0	1629.3	1667.0	1719.9	1737.3	1742.3
22.5°	1601.8	1599.8	1608.9	1607.9	1624.2	1636.4	1659.9	1692.4	1758.6	1791.2	1804.5
25°	1633.4	1639.5	1647.6	1637.5	1669.0	1674.1	1692.4	1732.2	1802.4	1860.5	1889.0
27.5°	1687.4	1691.4	1689.4	1694.5	1726.1	1729.1	1746.4	1803.4	1868.6	1948.0	2010.2
30°	1780.0	1765.8	1767.8	1779.0	1824.8	1830.9	1849.3	1904.3	1956.2	2061.1	2158.8
32.5°	1907.3	1907.3	1884.9	1906.3	1959.2	1975.5	2003.0	2085.5	2136.4	2192.4	2353.3
35°	2150.7	2150.7	2134.4	2078.4	2104.9	2145.6	2196.5	2310.6	2467.4	2650.7	2821.8
37.5°	2553.9	2547.8	2483.7	2382.9	2325.8	2340.1	2390.0	2574.3	2828.9	3275.9	3407.3
40°	3035.6	3018.3	2898.1	2757.6	2612.0	2587.6	2611.0	2842.1	3204.7	3867.6	3917.5
42.5°	3463.3	3462.3	3286.1	3167.0	2980.6	2939.9	2912.4	3113.0	3581.4	4297.3	4314.6
45°	3871.7	3861.5	3690.4	3561.1	3391.0	3287.1	3280.0	3420.5	3977.6	4684.3	4611.0
47.5°	4235.2	4250.5	4059.0	3934.8	3746.4	3675.1	3618.1	3738.3	4342.1	5014.2	4862.5
50°	4653.7	4681.2	4395.1	4258.6	4068.2	3997.9	4029.5	4118.1	4705.7	5284.1	5086.5
52.5°	5182.2	5094.7	4810.5	4576.3	4399.1	4364.5	4371.6	4494.9	5126.2	5505.0	5242.3
55°	5804.4	5675.1	5390.0	5024.4	4735.2	4702.6	4699.5	4824.8	5515.2	5711.8	5362.5
57.5°	6038.6	6105.8	5993.8	5724.0	5212.8	5117.1	5042.7	5158.8	5864.5	5939.9	5488.7
60°	6579.4	6651.7	6569.2	6396.1	6223.0	5890.0	5564.1	5552.9	6190.4	6157.8	5541.7
62.5°	6639.4	6616.0	6982.6	7043.7	7146.6	7017.2	6775.9	6075.3	6484.7	6268.8	5583.5
65°	6303.4	6306.5	6798.3	7134.4	7845.1	7911.3	7761.6	6906.2	6705.6	6312.6	5553.9
67.5°	5423.6	5483.7	5931.7	6737.2	8154.7	8241.3	8115.0	7783.0	6824.8	6327.8	5425.6
70°	4660.9	4662.9	5086.5	6069.2	7991.8	8057.0	7998.9	7840.0	6779.0	6206.7	5077.3
72.5°	3668.0	3656.8	4028.5	5021.3	7416.4	7554.9	7523.4	7632.3	6610.9	5768.8	4319.7
75°	2648.7	2671.1	3047.8	3867.6	6379.8	6809.5	6962.3	7294.2	6012.2	4899.1	3167.0
77.5°	1854.4	1876.8	2238.3	2937.9	5148.6	5667.0	5912.4	6203.6	4872.7	3631.3	1623.2
80°	1212.8	1233.2	1543.8	2206.7	3838.0	4280.0	4464.3	4290.2	2861.5	1525.4	178.2
82.5°	704.7	744.4	980.6	1514.2	2689.4	2899.2	2909.3	2257.6	1069.2	136.5	83.5
85°	343.2	368.6	586.6	898.2	1471.5	1546.8	1434.8	840.1	249.5	65.2	47.9
87.5°	50.9	67.2	231.2	339.1	249.5	204.7	123.2	28.5	16.3	8.1	6.1
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°	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1469.4	1468.4	1471.5	1458.2	1459.3	1443.0	1436.8	1433.8	1448.1	1446.0	1456.2
5°	1487.8	1477.6	1476.6	1444.0	1440.9	1420.6	1408.3	1390.0	1404.3	1401.2	1401.2
7.5°	1499.0	1488.8	1482.7	1444.0	1417.5	1381.9	1361.5	1347.2	1346.2	1343.2	1344.2
10°	1517.3	1512.2	1479.6	1436.8	1401.2	1355.4	1316.7	1294.3	1284.1	1285.1	1278.0
12.5°	1558.0	1547.8	1504.1	1453.1	1396.1	1333.0	1283.1	1243.4	1223.0	1218.9	1207.7
15°	1616.1	1604.9	1549.9	1491.8	1409.4	1335.0	1260.7	1190.4	1155.8	1141.5	1131.4
17.5°	1684.3	1667.0	1603.9	1537.7	1436.8	1333.0	1239.3	1144.6	1078.4	1040.7	1037.7
20°	1738.3	1730.1	1657.8	1586.5	1454.2	1319.7	1203.7	1078.4	979.6	910.4	896.1
22.5°	1809.6	1810.6	1730.1	1623.2	1468.4	1297.3	1147.6	985.7	851.3	758.6	742.4
25°	1912.4	1897.1	1806.5	1652.7	1471.5	1271.9	1071.3	869.6	694.5	590.6	572.3
27.5°	2035.6	2013.2	1868.6	1668.0	1458.2	1221.0	969.4	717.9	513.2	423.6	409.4
30°	2166.0	2113.0	1919.5	1674.1	1417.5	1138.5	824.8	524.4	363.5	300.4	294.3
32.5°	2333.0	2255.6	1963.3	1653.8	1355.4	1013.2	639.5	359.5	251.5	217.9	220.0
35°	2675.1	2485.7	2031.5	1631.3	1267.8	856.4	447.0	238.3	194.5	190.4	191.4
37.5°	3192.4	2892.0	2151.7	1598.8	1137.5	654.8	287.2	184.3	185.3	185.3	185.3
40°	3692.4	3336.0	2336.0	1534.6	977.6	458.2	189.4	174.1	179.2	178.2	179.2
42.5°	4048.8	3666.0	2529.5	1456.2	793.3	290.2	170.1	163.9	167.0	166.0	169.0
45°	4338.0	3949.0	2705.7	1345.2	593.7	189.4	167.0	155.8	152.7	151.7	154.8
47.5°	4551.9	4135.4	2831.9	1206.7	396.1	162.9	159.9	143.6	139.5	139.5	140.5
50°	4759.6	4314.6	2869.6	1048.9	244.4	158.9	150.7	133.4	127.3	125.3	127.3
52.5°	4904.2	4375.7	2877.8	870.7	163.9	154.8	139.5	121.2	114.1	113.0	114.1
55°	5027.4	4501.0	2811.6	648.7	146.6	145.6	129.3	109.0	100.8	104.9	106.9
57.5°	5058.0	4513.2	2679.2	428.7	145.6	133.4	118.1	97.8	91.6	95.7	96.7
60°	5135.4	4463.3	2514.2	263.7	142.6	119.1	104.9	86.6	82.5	83.5	85.5
62.5°	5069.2	4435.8	2232.2	184.3	131.4	109.0	97.8	79.4	72.3	71.3	71.3
65°	5002.0	4273.9	1706.7	152.7	117.1	101.8	88.6	70.3	62.1	58.0	58.0
67.5°	4788.1	3911.4	974.5	141.5	105.9	93.7	80.4	64.2	54.0	48.9	46.8
70°	4249.5	3133.4	300.4	129.3	106.9	87.6	74.3	56.0	46.8	39.7	38.7
72.5°	3327.9	1959.2	140.5	114.1	110.0	81.5	69.2	51.9	41.8	33.6	32.6
75°	1958.2	469.4	115.1	84.5	93.7	86.6	68.2	49.9	36.7	27.5	26.5
77.5°	425.7	114.1	102.9	57.0	70.3	83.5	65.2	43.8	32.6	21.4	20.4
80°	102.9	89.6	93.7	43.8	46.8	58.0	53.0	37.7	29.5	17.3	16.3
82.5°	69.2	67.2	82.5	27.5	23.4	21.4	22.4	23.4	24.4	13.2	12.2
85°	45.8	58.0	43.8	15.3	13.2	11.2	11.2	10.2	14.3	8.1	8.1
87.5°	7.1	6.1	7.1	6.1	6.1	5.1	4.1	4.1	3.1	4.1	4.1
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)