

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: P509160

Luminaire Tested: **VERD-CA2-120-727-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509160
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-CA2-120-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13163 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

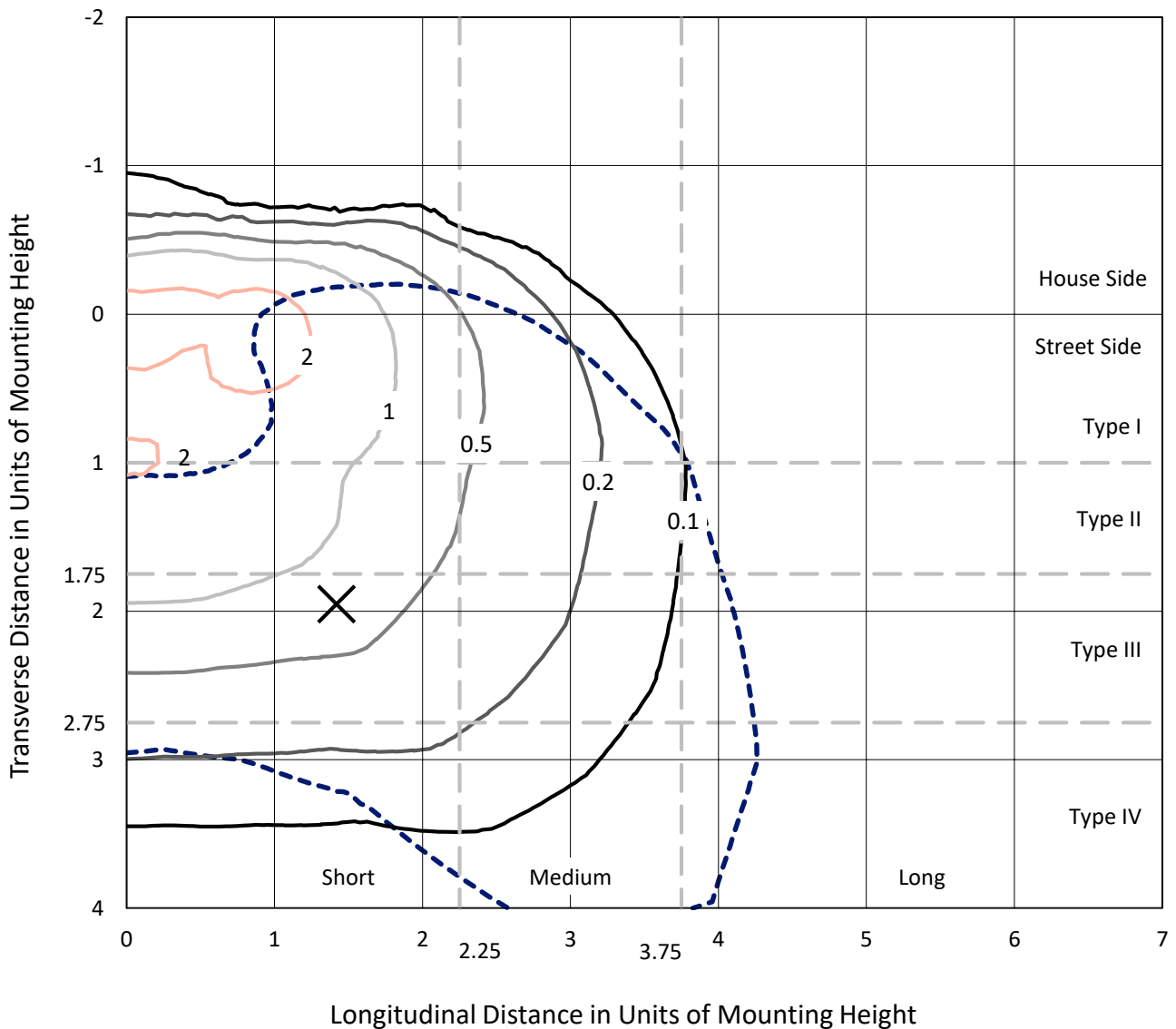
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

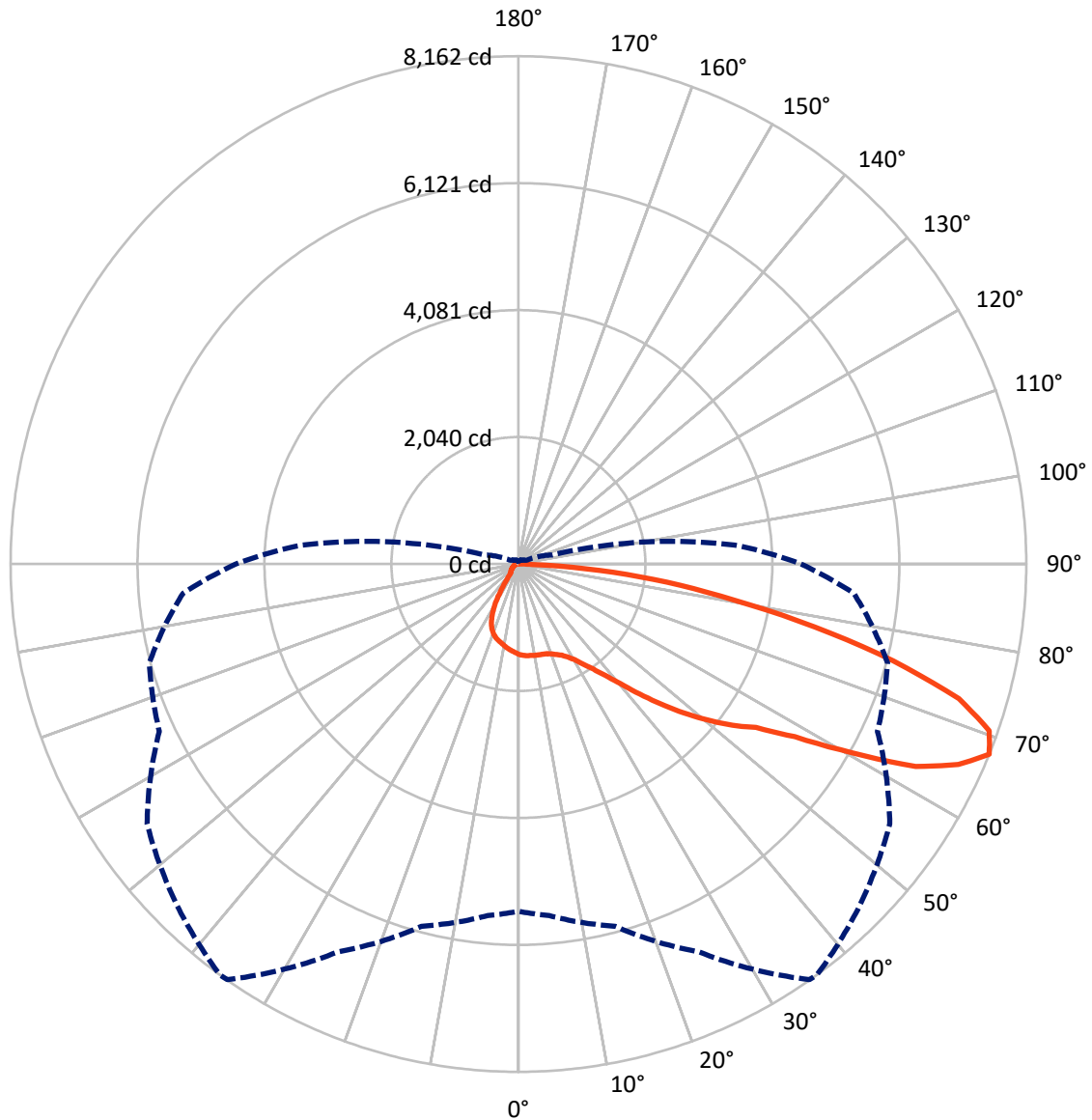
✕ Max cd
 - - - 1/2 Max cd



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

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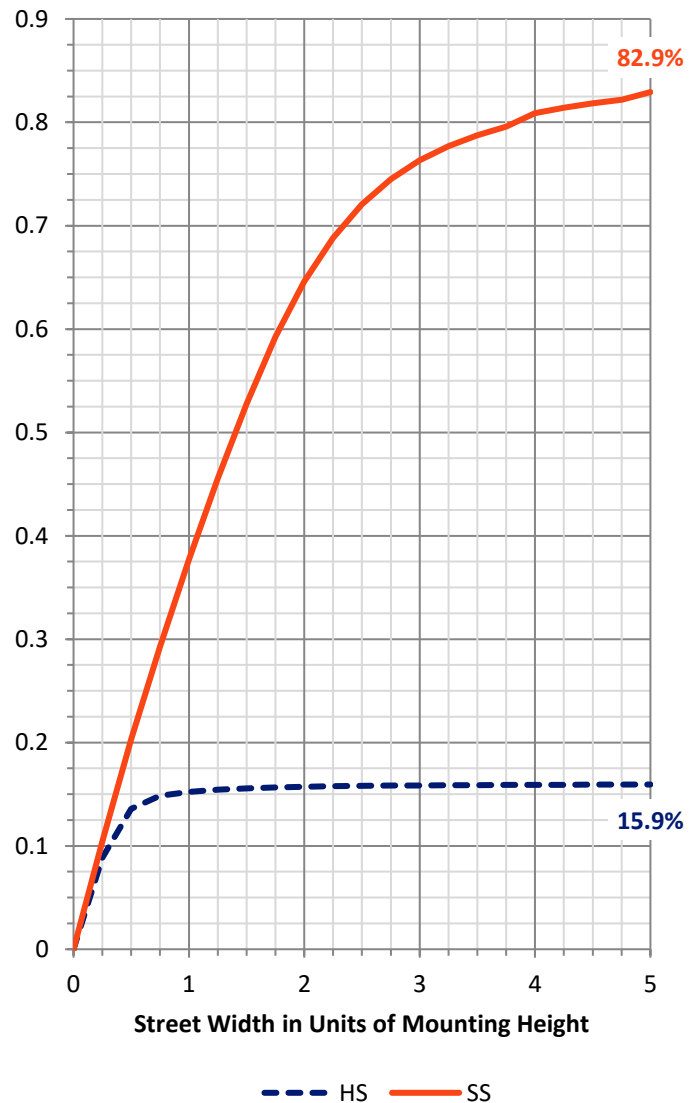
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.8	0.0	2122.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	11040.2	0.0	11040.2
	% Fixture	83.9	0.0	83.9
Total	Lumens	13163.0	0.0	13163.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.0
10°-20°	406.7	3.1
20°-30°	672.7	5.1
30°-40°	1067.0	8.1
40°-50°	1841.7	14.0
50°-60°	2729.9	20.7
60°-70°	3529.3	26.8
70°-80°	2382.4	18.1
80°-90°	396.0	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°	13163.0	100.0
0°-180°	13163.0	100.0



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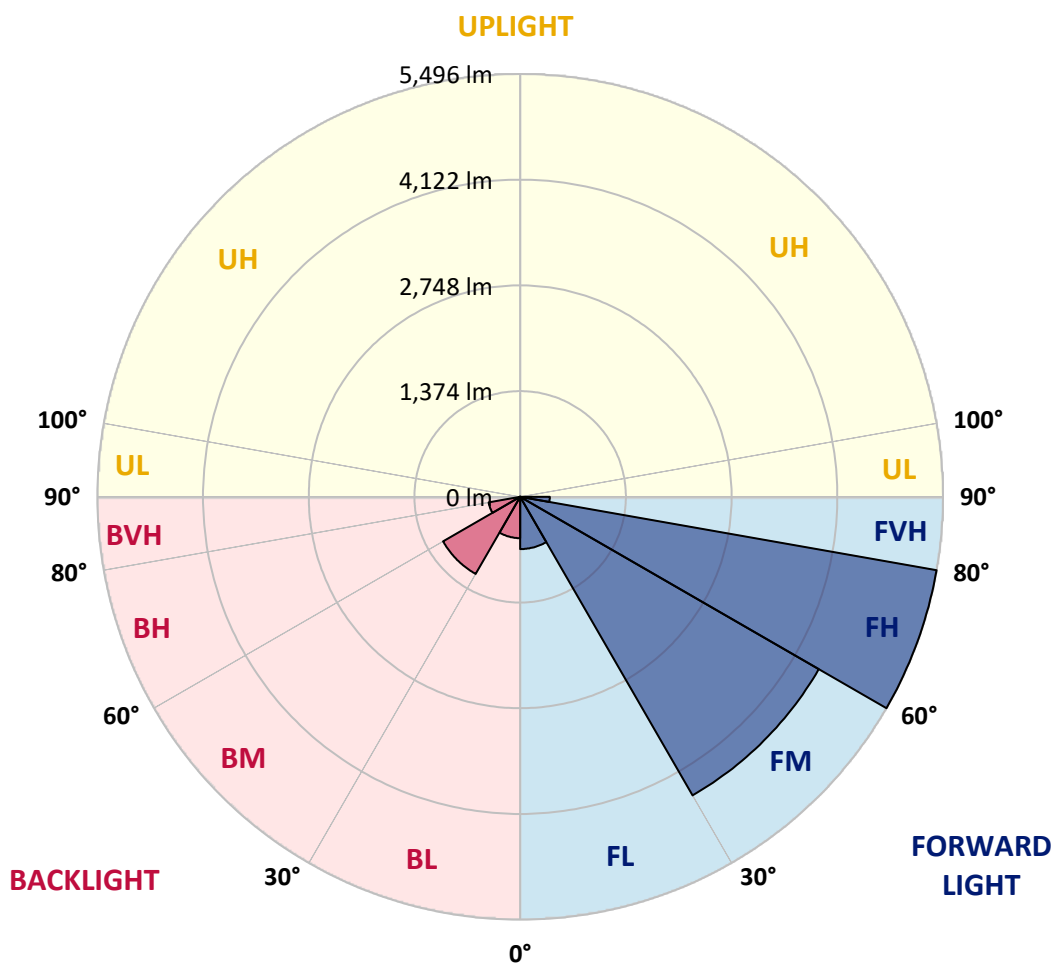
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.5	5.2			
FM (30°-60°)	4480.4	34.0			
FH (60°-80°)	5495.6	41.8			G3/7500
FVH (80°-90°)	384.8	2.9			G3/500
BL (0°-30°)	537.2	4.1	B2/1000		
BM (30°-60°)	1158.1	8.8	B2/2500		
BH (60°-80°)	416.2	3.2	B1/500		G1/500
BVH (80°-90°)	11.2	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°	36°	45°	55°	65°	75°	85°
0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1461.1	1475.2	1473.6	1472.1	1472.1	1470.5	1461.1	1451.6	1456.3	1454.8	1453.2
5°	1467.4	1481.5	1479.9	1478.4	1478.4	1479.9	1465.8	1454.8	1457.9	1461.1	1459.5
7.5°	1470.5	1483.1	1479.9	1478.4	1476.8	1481.5	1470.5	1472.1	1475.2	1475.2	1475.2
10°	1475.2	1484.7	1484.7	1486.2	1487.8	1492.5	1487.8	1492.5	1505.1	1502.0	1509.9
12.5°	1462.6	1473.6	1478.4	1486.2	1494.1	1497.3	1502.0	1514.6	1530.3	1538.2	1546.1
15°	1457.9	1468.9	1476.8	1486.2	1498.8	1502.0	1514.6	1536.6	1555.5	1571.3	1588.6
17.5°	1473.6	1486.2	1497.3	1503.6	1509.9	1514.6	1527.2	1555.5	1588.6	1616.9	1642.1
20°	1503.6	1516.2	1528.8	1535.1	1539.8	1542.9	1552.4	1579.1	1621.6	1665.7	1701.9
22.5°	1538.2	1550.8	1565.0	1569.7	1580.7	1580.7	1582.3	1609.0	1661.0	1720.8	1764.9
25°	1576.0	1583.9	1596.5	1604.3	1620.1	1623.2	1627.9	1651.6	1716.1	1783.8	1853.1
27.5°	1620.1	1635.8	1648.4	1657.9	1689.3	1690.9	1687.8	1717.7	1780.7	1864.1	1961.7
30°	1700.4	1717.7	1730.3	1746.0	1787.0	1785.4	1805.8	1837.3	1873.5	1964.9	2095.5
32.5°	1827.9	1829.5	1835.8	1856.2	1914.5	1920.8	1960.1	2016.8	2089.2	2147.5	2286.0
35°	2060.9	2053.0	2034.1	2031.0	2070.4	2073.5	2150.6	2270.3	2427.7	2621.4	2835.5
37.5°	2333.3	2353.7	2331.7	2264.0	2270.3	2271.9	2363.2	2515.9	2808.8	3293.7	3496.8
40°	2811.9	2822.9	2685.9	2578.9	2541.1	2523.8	2571.0	2802.5	3177.2	3808.5	3951.8
42.5°	3233.8	3233.8	3106.3	2941.0	2845.0	2857.6	2843.4	3073.3	3555.0	4255.6	4307.6
45°	3655.8	3641.6	3525.1	3386.6	3218.1	3207.1	3170.9	3347.2	3903.0	4576.8	4578.4
47.5°	4049.4	4082.4	3907.7	3755.0	3583.4	3575.5	3510.9	3647.9	4236.7	4858.6	4816.1
50°	4463.5	4509.1	4290.3	4118.7	3932.9	3943.9	3890.4	3986.4	4568.9	5121.6	5044.4
52.5°	5052.3	4967.3	4705.9	4468.2	4276.1	4307.6	4252.5	4309.2	4913.7	5331.0	5170.4
55°	5683.6	5532.5	5315.2	4916.9	4638.2	4635.1	4594.1	4661.8	5261.7	5570.3	5313.6
57.5°	6022.1	6067.8	6017.4	5694.6	5244.4	5236.5	4990.9	4998.8	5581.3	5774.9	5513.6
60°	6407.9	6464.5	6574.7	6373.2	6148.1	6154.4	5541.9	5359.3	5918.2	5938.7	5529.3
62.5°	6612.5	6618.8	6872.3	6943.2	7125.8	7166.7	6702.3	5800.1	6141.8	6064.6	5556.1
65°	6250.4	6261.4	6749.5	7106.9	7716.2	7771.3	7571.3	6653.5	6308.7	6130.8	5530.9
67.5°	5581.3	5671.0	6026.8	6880.2	8153.9	8161.7	7758.7	7284.8	6366.9	6140.2	5409.7
70°	4677.6	4646.1	5096.4	6121.3	8086.2	8027.9	7676.8	7357.2	6324.4	6011.1	4857.1
72.5°	3468.4	3421.2	3885.6	4921.6	7294.2	7404.5	7310.0	6933.7	6163.8	5529.3	3942.3
75°	2374.2	2429.3	2846.5	3710.9	6058.3	6225.2	6642.4	6606.2	5483.7	4583.1	2698.5
77.5°	1624.8	1648.4	2005.8	2761.5	4802.0	4866.5	5557.7	5337.3	4032.1	2816.6	900.6
80°	1058.0	1050.1	1371.3	1966.4	3520.4	3512.5	3969.1	3377.1	2172.7	960.4	124.4
82.5°	590.4	625.0	821.8	1292.6	2378.9	2404.1	2478.1	1846.8	836.0	111.8	78.7
85°	332.2	346.4	472.3	732.1	1246.9	1309.9	1105.2	678.6	149.6	61.4	45.7
87.5°	78.7	75.6	151.1	280.2	207.8	225.1	107.1	31.5	15.7	11.0	11.0
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°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1453.2	1450.0	1446.9	1440.6	1435.9	1421.7	1423.3	1432.7	1423.3	1439.0	1429.6
5°	1456.3	1451.6	1443.7	1424.8	1410.7	1399.7	1396.5	1394.9	1382.3	1396.5	1390.2
7.5°	1468.9	1464.2	1446.9	1426.4	1405.9	1372.9	1368.2	1361.9	1338.2	1347.7	1339.8
10°	1498.8	1492.5	1462.6	1434.3	1402.8	1358.7	1333.5	1314.6	1287.9	1291.0	1283.1
12.5°	1536.6	1530.3	1495.7	1448.5	1404.4	1343.0	1298.9	1262.7	1223.3	1223.3	1215.4
15°	1580.7	1574.4	1535.1	1479.9	1410.7	1330.4	1264.3	1206.0	1143.0	1135.2	1125.7
17.5°	1640.5	1631.1	1585.4	1514.6	1428.0	1319.4	1229.6	1143.0	1047.0	1017.1	1001.3
20°	1701.9	1690.9	1651.6	1563.4	1451.6	1308.3	1179.2	1061.2	936.8	875.4	864.4
22.5°	1780.7	1777.5	1728.7	1605.9	1459.5	1284.7	1116.3	969.8	802.9	717.9	700.6
25°	1873.5	1868.8	1793.3	1639.0	1450.0	1237.5	1026.5	839.2	651.8	566.8	547.9
27.5°	1983.8	1971.2	1848.4	1646.8	1423.3	1163.5	911.6	670.7	481.8	409.3	395.2
30°	2100.3	2081.4	1906.6	1648.4	1369.7	1072.2	760.4	492.8	341.6	289.7	289.7
32.5°	2295.5	2230.9	1963.3	1626.4	1292.6	941.5	579.4	332.2	239.3	218.8	218.8
35°	2714.3	2560.0	2053.0	1598.0	1191.8	779.3	393.6	225.1	200.0	200.0	198.4
37.5°	3342.5	3055.9	2205.8	1550.8	1054.9	579.4	259.8	185.8	190.5	190.5	190.5
40°	3744.0	3443.2	2413.6	1476.8	897.4	393.6	185.8	176.3	179.5	182.6	182.6
42.5°	4118.7	3780.2	2621.4	1374.5	724.2	251.9	173.2	165.3	166.9	166.9	168.5
45°	4356.4	4030.5	2775.7	1265.8	533.7	179.5	170.0	155.9	151.1	151.1	154.3
47.5°	4576.8	4194.2	2843.4	1122.6	344.8	168.5	162.2	144.8	138.5	137.0	137.0
50°	4797.2	4362.7	2881.2	952.5	215.7	162.2	149.6	132.3	126.0	124.4	124.4
52.5°	4894.8	4416.2	2796.2	760.4	160.6	155.9	140.1	121.2	111.8	111.8	111.8
55°	4997.2	4515.4	2652.9	544.7	152.7	144.8	129.1	108.6	100.8	103.9	103.9
57.5°	5110.5	4444.6	2500.2	354.2	151.1	130.7	114.9	97.6	91.3	94.5	96.0
60°	5075.9	4461.9	2281.3	237.7	144.8	119.7	103.9	86.6	81.9	81.9	81.9
62.5°	5075.9	4328.1	1922.4	181.1	132.3	110.2	96.0	80.3	72.4	69.3	66.1
65°	4942.1	4011.6	1404.4	157.4	118.1	102.3	86.6	70.8	61.4	56.7	55.1
67.5°	4537.5	3487.3	565.2	143.3	108.6	94.5	80.3	64.6	53.5	47.2	45.7
70°	3857.3	2574.2	162.2	127.5	110.2	88.2	75.6	56.7	47.2	39.4	37.8
72.5°	2859.1	1360.3	132.3	100.8	97.6	75.6	70.8	53.5	40.9	33.1	31.5
75°	1443.7	185.8	113.4	72.4	75.6	78.7	67.7	47.2	37.8	26.8	25.2
77.5°	149.6	110.2	99.2	48.8	53.5	55.1	58.3	44.1	33.1	22.0	20.5
80°	92.9	83.4	97.6	42.5	31.5	37.8	39.4	34.6	26.8	17.3	17.3
82.5°	66.1	70.8	72.4	26.8	23.6	22.0	20.5	20.5	23.6	15.7	15.7
85°	45.7	47.2	29.9	17.3	15.7	14.2	12.6	12.6	11.0	12.6	11.0
87.5°	11.0	9.4	9.4	9.4	7.9	7.9	6.3	6.3	6.3	6.3	7.9
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)