

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: P509433

Luminaire Tested: **VERD-CA2-90-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12985 lumens
Efficiency: N/A
Efficacy: 137.8 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

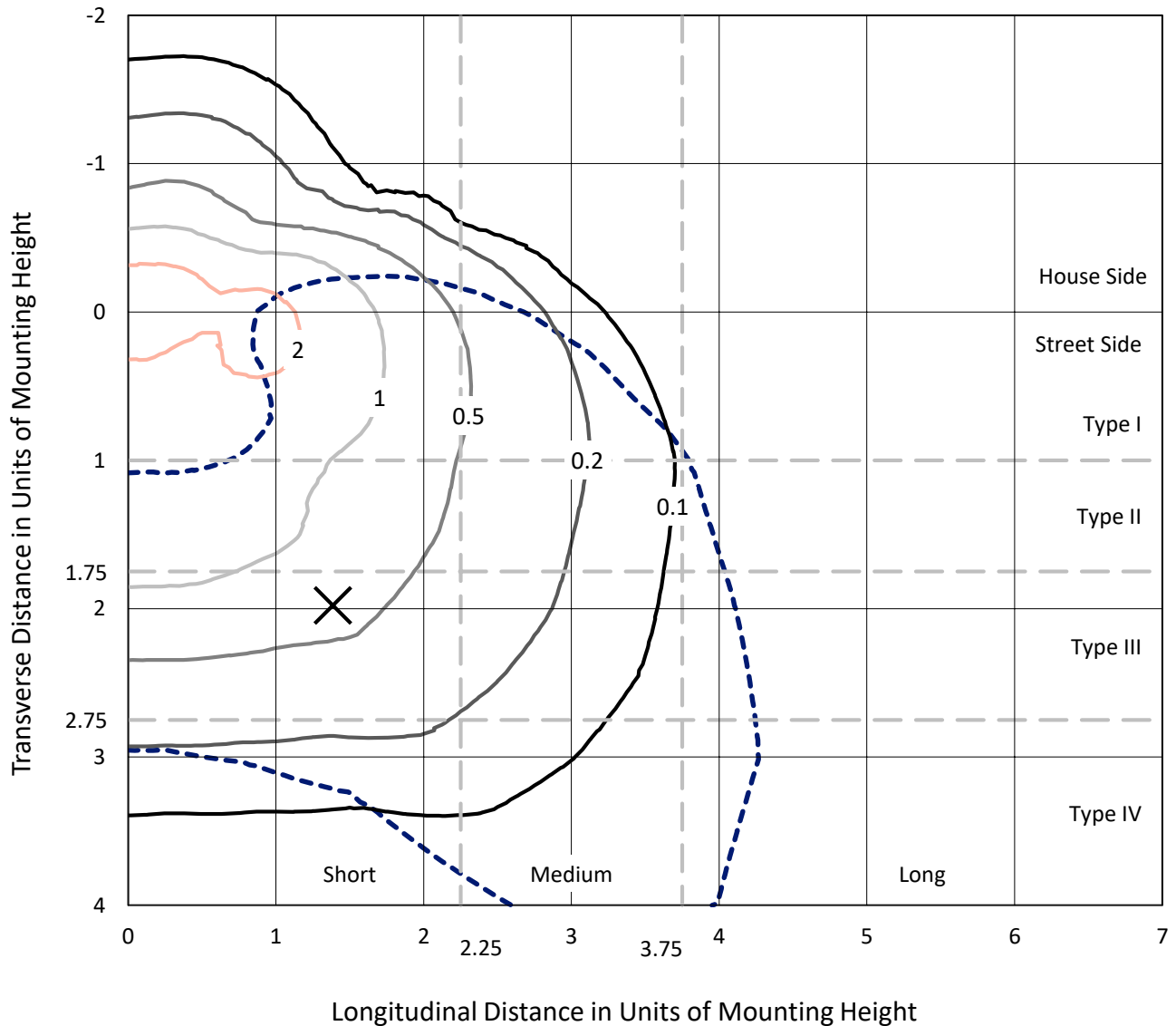
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

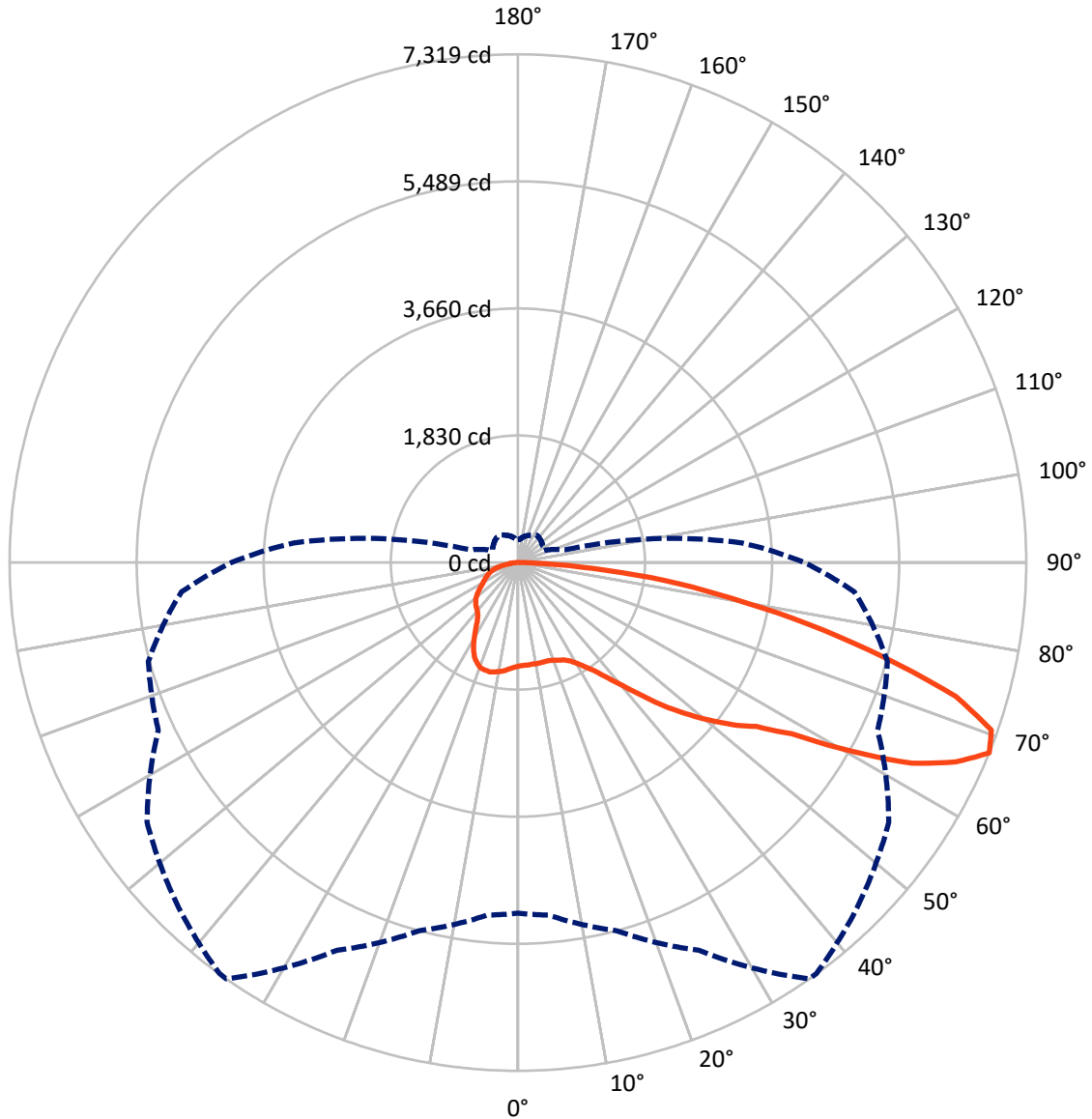
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2958.3	0.0	2958.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10026.7	0.0	10026.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	12985.0	0.0	12985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.1
10°-20°	442.9	3.4
20°-30°	739.2	5.7
30°-40°	1137.4	8.8
40°-50°	1874.4	14.4
50°-60°	2677.2	20.6
60°-70°	3333.3	25.7
70°-80°	2249.4	17.3
80°-90°	386.7	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°	12985.0	100.0
0°-180°	12985.0	100.0

Coefficient of Utilization



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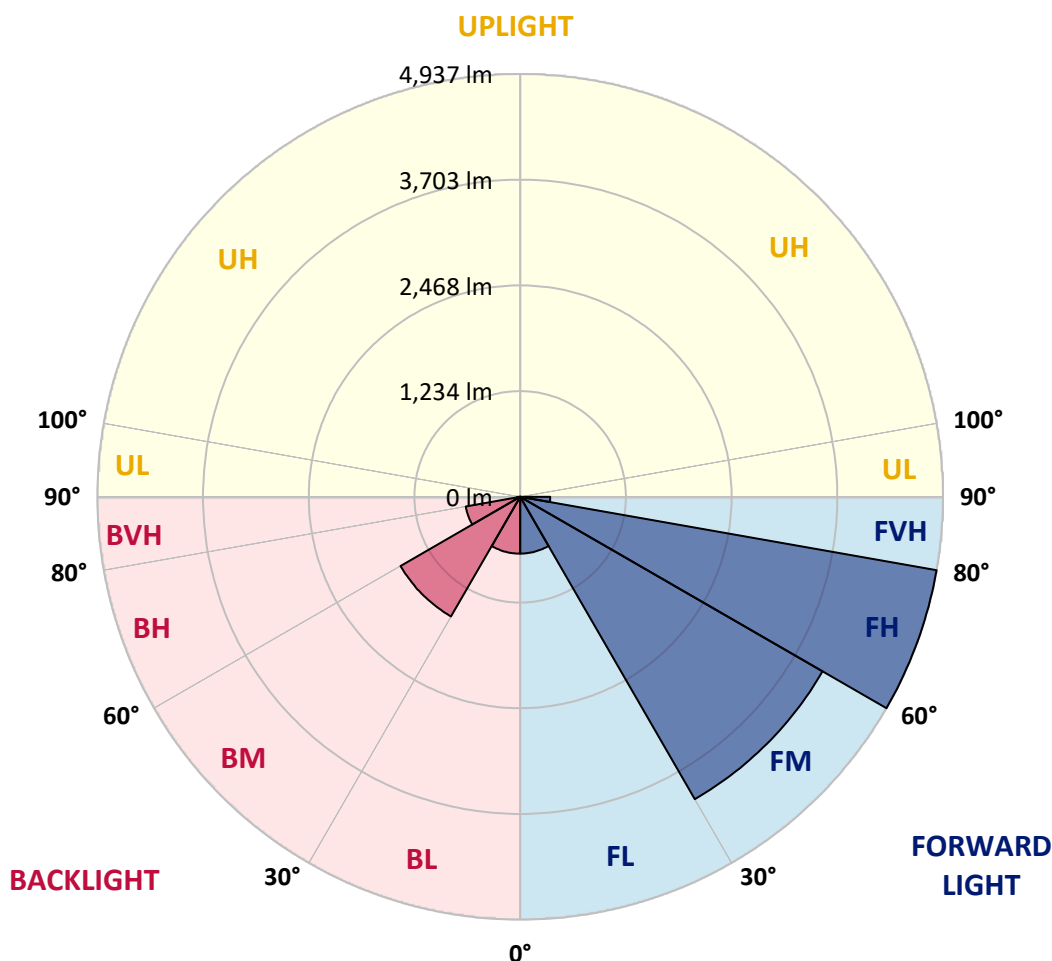
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	662.6	5.1			
FM	(30°-60°)	4076.1	31.4			
FH	(60°-80°)	4937.0	38.0			G2/5000
FVH	(80°-90°)	351.0	2.7			G3/500
BL	(0°-30°)	663.9	5.1	B2/1000		
BM	(30°-60°)	1612.9	12.4	B2/2500		
BH	(60°-80°)	645.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	35.7	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°	36°	45°	55°	65°	75°	85°
0°	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1
2.5°	1471.1	1485.1	1483.7	1480.9	1482.3	1483.7	1476.7	1472.5	1478.1	1479.5	1486.5
5°	1469.7	1480.9	1479.5	1479.5	1483.7	1482.3	1471.1	1462.7	1472.5	1479.5	1486.5
7.5°	1468.3	1478.1	1478.1	1473.9	1476.7	1476.7	1471.1	1476.7	1476.7	1487.9	1496.3
10°	1466.9	1475.3	1475.3	1476.7	1480.9	1482.3	1482.3	1486.5	1501.9	1506.1	1522.9
12.5°	1450.2	1457.1	1462.7	1471.1	1479.5	1482.3	1489.3	1501.9	1521.5	1531.3	1550.9
15°	1436.2	1446.0	1455.7	1464.1	1476.7	1479.5	1494.9	1515.9	1536.9	1557.9	1587.3
17.5°	1441.8	1454.3	1465.5	1472.5	1482.3	1485.1	1500.5	1528.5	1562.1	1592.9	1633.5
20°	1454.3	1468.3	1479.5	1487.9	1500.5	1503.3	1515.9	1542.5	1585.9	1633.5	1679.7
22.5°	1485.1	1494.9	1507.5	1511.7	1525.7	1528.5	1536.9	1563.5	1619.5	1679.7	1738.5
25°	1513.1	1524.3	1534.1	1538.3	1553.7	1556.5	1571.9	1594.3	1660.1	1728.7	1814.1
27.5°	1549.5	1560.7	1573.3	1577.5	1604.1	1606.9	1613.9	1647.5	1713.3	1793.1	1899.5
30°	1619.5	1626.5	1640.5	1657.3	1683.9	1686.7	1702.1	1737.1	1784.7	1882.7	2024.1
32.5°	1725.9	1735.7	1730.1	1752.5	1791.7	1791.7	1844.9	1903.7	1962.5	2031.1	2218.6
35°	1930.3	1924.7	1919.1	1899.5	1923.3	1931.7	2005.9	2105.2	2269.0	2462.2	2646.9
37.5°	2183.6	2182.2	2152.8	2108.0	2106.6	2109.4	2176.6	2344.6	2605.0	3034.7	3233.4
40°	2572.8	2584.0	2480.4	2388.0	2336.2	2325.0	2378.2	2589.6	2939.5	3512.0	3647.8
42.5°	2961.9	2938.1	2854.1	2704.3	2617.5	2610.6	2620.3	2805.1	3264.2	3898.3	3947.3
45°	3306.2	3324.4	3192.8	3101.9	2942.3	2945.1	2901.7	3071.1	3586.2	4171.3	4179.7
47.5°	3657.6	3671.6	3507.8	3404.2	3251.6	3251.6	3183.1	3317.4	3873.1	4431.6	4414.8
50°	4032.7	4064.9	3859.1	3702.4	3562.4	3556.8	3535.8	3619.8	4155.9	4651.4	4584.2
52.5°	4539.4	4428.8	4234.3	4021.5	3882.9	3866.1	3846.5	3906.7	4480.6	4830.6	4693.4
55°	5062.9	4913.2	4714.4	4428.8	4167.1	4190.9	4141.9	4210.5	4778.8	5044.7	4836.2
57.5°	5380.7	5436.7	5328.9	5083.9	4652.8	4648.6	4463.8	4500.2	5046.1	5225.3	4987.3
60°	5715.2	5793.6	5866.4	5720.8	5516.4	5424.1	4949.5	4808.2	5347.1	5356.9	4970.5
62.5°	5890.2	5874.8	6191.1	6207.9	6366.1	6377.3	5914.0	5207.1	5524.8	5467.5	5029.3
65°	5578.0	5586.4	6107.1	6378.7	6923.2	6955.4	6786.0	5908.4	5674.6	5519.2	4962.1
67.5°	5048.9	5096.5	5487.1	6158.9	7319.3	7313.7	6947.0	6518.7	5713.8	5508.1	4864.2
70°	4129.3	4179.7	4580.0	5555.6	7232.6	7186.4	6878.4	6567.7	5680.2	5407.3	4375.6
72.5°	3167.7	3160.7	3575.0	4437.2	6594.3	6639.1	6527.1	6221.9	5519.2	4976.1	3584.8
75°	2232.6	2197.6	2565.8	3363.6	5438.1	5603.2	5985.4	5901.4	4910.4	4095.7	2396.4
77.5°	1465.5	1518.7	1812.7	2487.4	4276.3	4414.8	4942.5	4776.0	3633.8	2613.3	865.1
80°	930.8	978.4	1216.4	1776.3	3108.9	3171.9	3603.0	3037.5	1941.5	862.3	120.4
82.5°	565.5	572.5	783.9	1201.0	2144.4	2144.4	2269.0	1697.9	760.1	112.0	78.4
85°	300.9	317.7	422.7	648.1	1080.6	1161.8	1028.8	648.1	147.0	61.6	47.6
87.5°	95.2	96.6	138.6	250.6	232.4	239.4	79.8	33.6	16.8	11.2	9.8
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°	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1	1492.1
2.5°	1489.3	1490.7	1499.1	1503.3	1504.7	1500.5	1510.3	1524.3	1520.1	1535.5	1529.9
5°	1489.3	1496.3	1507.5	1506.1	1517.3	1522.9	1534.1	1548.1	1543.9	1566.3	1557.9
7.5°	1500.5	1511.7	1520.1	1536.9	1545.3	1542.5	1567.7	1578.9	1573.3	1590.1	1581.7
10°	1528.5	1541.1	1552.3	1570.5	1583.1	1577.5	1591.5	1598.5	1588.7	1605.5	1601.3
12.5°	1560.7	1574.7	1597.1	1609.7	1619.5	1609.7	1609.7	1605.5	1591.5	1606.9	1597.1
15°	1597.1	1615.3	1646.1	1660.1	1657.3	1640.5	1625.1	1595.7	1557.9	1564.9	1550.9
17.5°	1646.1	1668.5	1703.5	1711.9	1700.7	1660.1	1619.5	1566.3	1499.1	1482.3	1471.1
20°	1699.3	1724.5	1773.5	1769.3	1744.1	1672.7	1608.3	1525.7	1420.8	1373.2	1350.8
22.5°	1772.1	1797.3	1843.5	1818.3	1766.5	1672.7	1563.5	1448.8	1324.2	1254.2	1238.8
25°	1851.9	1886.9	1906.5	1850.5	1760.9	1634.9	1503.3	1352.2	1192.6	1117.0	1101.6
27.5°	1949.9	1973.7	1954.1	1854.7	1732.9	1571.9	1405.4	1223.4	1070.8	1006.4	984.0
30°	2064.6	2067.4	1990.5	1846.3	1669.9	1482.3	1285.0	1093.2	975.6	915.4	901.4
32.5°	2217.2	2189.2	2022.7	1807.1	1584.5	1359.2	1150.6	1006.4	908.4	832.9	813.3
35°	2614.7	2487.4	2094.0	1762.3	1480.9	1222.0	1034.4	928.0	845.5	760.1	744.7
37.5°	3129.9	2904.5	2220.0	1716.1	1363.4	1096.0	957.4	881.8	811.9	716.7	695.7
40°	3516.2	3255.8	2414.6	1665.7	1255.6	1006.4	915.4	863.7	786.7	699.9	677.5
42.5°	3811.5	3548.4	2614.7	1609.7	1154.8	936.4	886.0	851.1	776.9	695.7	677.5
45°	4015.9	3752.8	2786.9	1543.9	1026.0	876.2	863.7	830.1	758.7	680.3	662.1
47.5°	4223.1	3896.9	2883.5	1475.3	918.2	842.7	831.5	793.7	727.9	653.7	639.7
50°	4403.6	4060.7	2966.1	1405.4	832.9	802.1	795.1	744.7	681.7	611.7	593.5
52.5°	4455.4	4099.9	2932.5	1401.2	755.9	758.7	744.7	704.1	645.3	569.7	551.5
55°	4573.0	4209.1	2851.3	1272.4	681.7	691.5	688.7	667.7	613.1	543.1	529.1
57.5°	4623.4	4126.5	2733.7	946.2	604.7	613.1	636.9	636.9	589.3	526.3	513.7
60°	4616.4	4129.3	2523.8	662.1	529.1	551.5	585.1	585.1	547.3	485.7	470.3
62.5°	4563.2	4022.9	2175.2	505.3	481.5	513.7	552.9	527.7	494.1	425.5	414.3
65°	4475.0	3730.4	1507.5	443.7	454.9	492.7	512.3	481.5	440.9	379.3	372.3
67.5°	4122.3	3240.4	701.3	405.9	432.5	461.9	478.7	435.3	393.3	337.3	328.9
70°	3509.2	2371.2	302.3	376.5	405.9	426.9	443.7	398.9	354.1	305.1	302.3
72.5°	2551.8	1265.4	252.0	330.3	361.1	383.5	404.5	359.7	316.3	259.0	259.0
75°	1229.0	210.0	217.0	274.4	302.3	347.1	356.9	293.9	245.0	197.4	193.2
77.5°	151.2	135.8	187.6	218.4	242.2	266.0	289.8	254.8	211.4	162.4	154.0
80°	95.2	95.2	148.4	152.6	165.2	190.4	212.8	198.8	166.6	93.8	86.8
82.5°	70.0	75.6	98.0	72.8	86.8	109.2	124.6	141.4	120.4	65.8	61.6
85°	44.8	49.0	46.2	36.4	47.6	72.8	99.4	98.0	81.2	49.0	46.2
87.5°	9.8	9.8	9.8	8.4	9.8	12.6	23.8	46.2	33.6	26.6	25.2
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)