

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: P509073

Luminaire Tested: **VERD-CA2-100-730-U-T4**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509073  
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-CA2-100-730-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1370mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13768 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

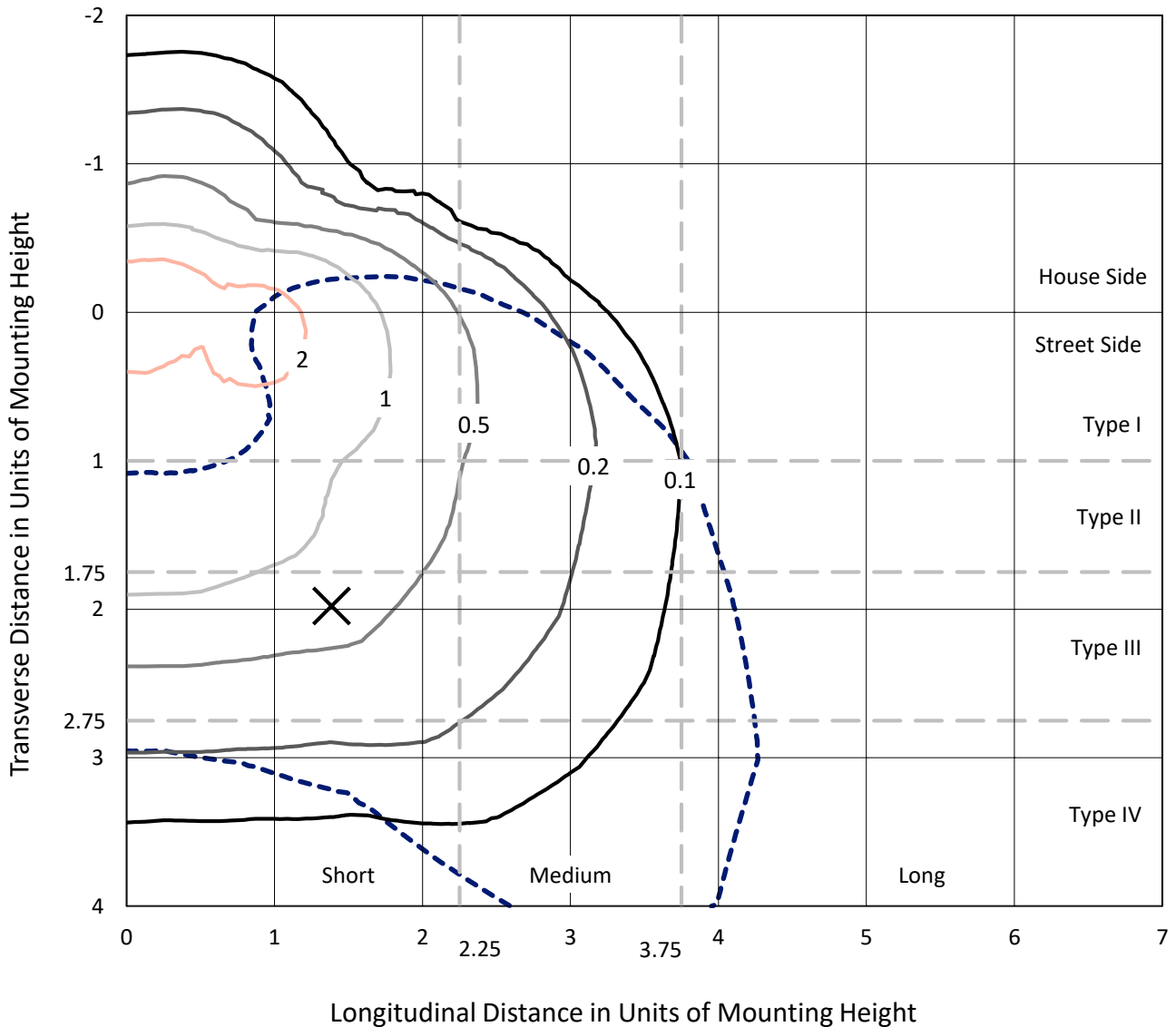
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509073  
 CATALOG NUMBER: VERD-CA2-100-730-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

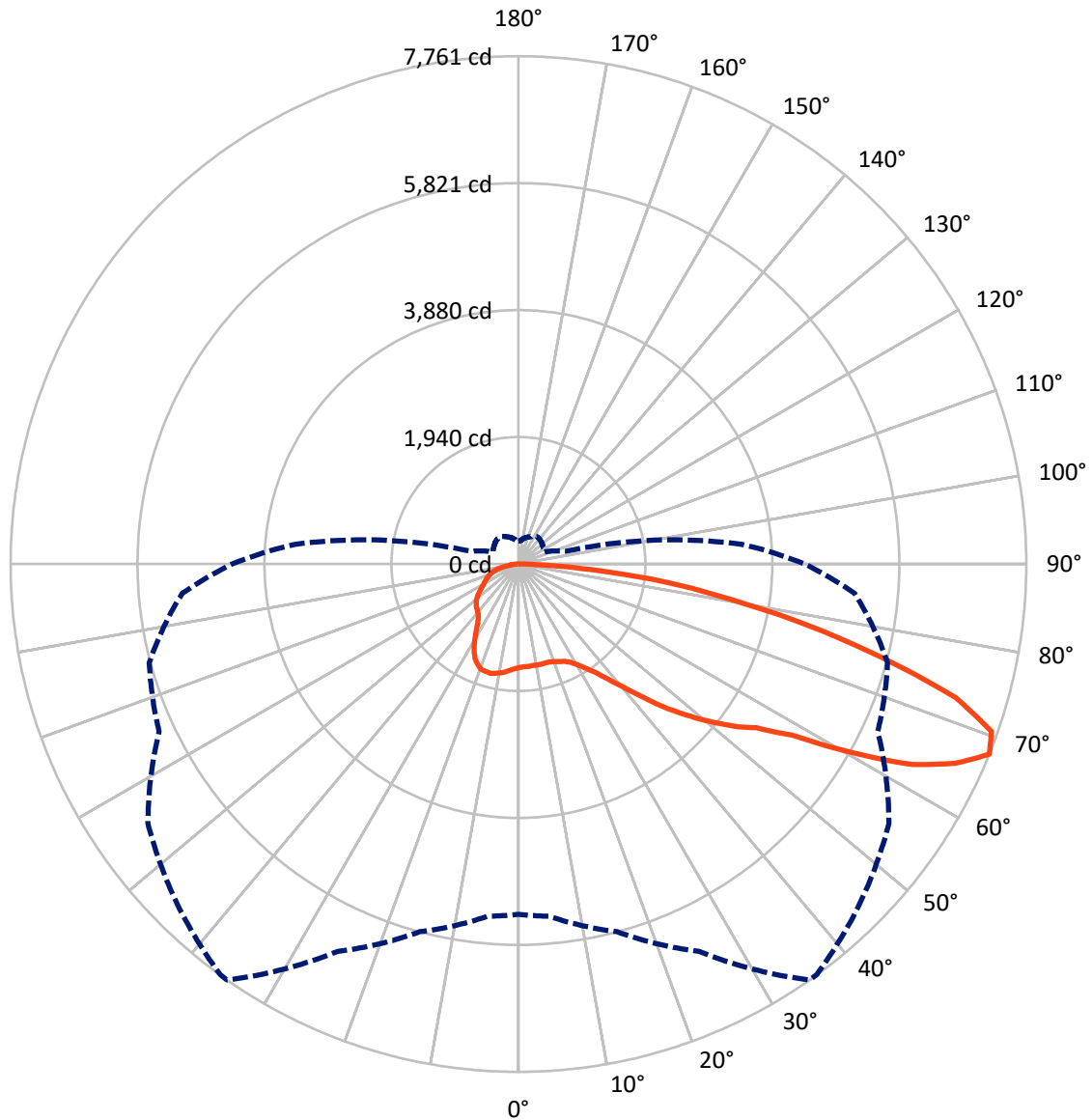
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P509073  
CATALOG NUMBER: VERD-CA2-100-730-U-T4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509073

CATALOG NUMBER: VERD-CA2-100-730-U-T4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3136.7	0.0	3136.7
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	10631.3	0.0	10631.3
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	13768.0	0.0	13768.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	1.1
10°-20°	469.6	3.4
20°-30°	783.8	5.7
30°-40°	1206.0	8.8
40°-50°	1987.4	14.4
50°-60°	2838.7	20.6
60°-70°	3534.3	25.7
70°-80°	2385.1	17.3
80°-90°	410.0	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°	13768.0	100.0
0°-180°	13768.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509073

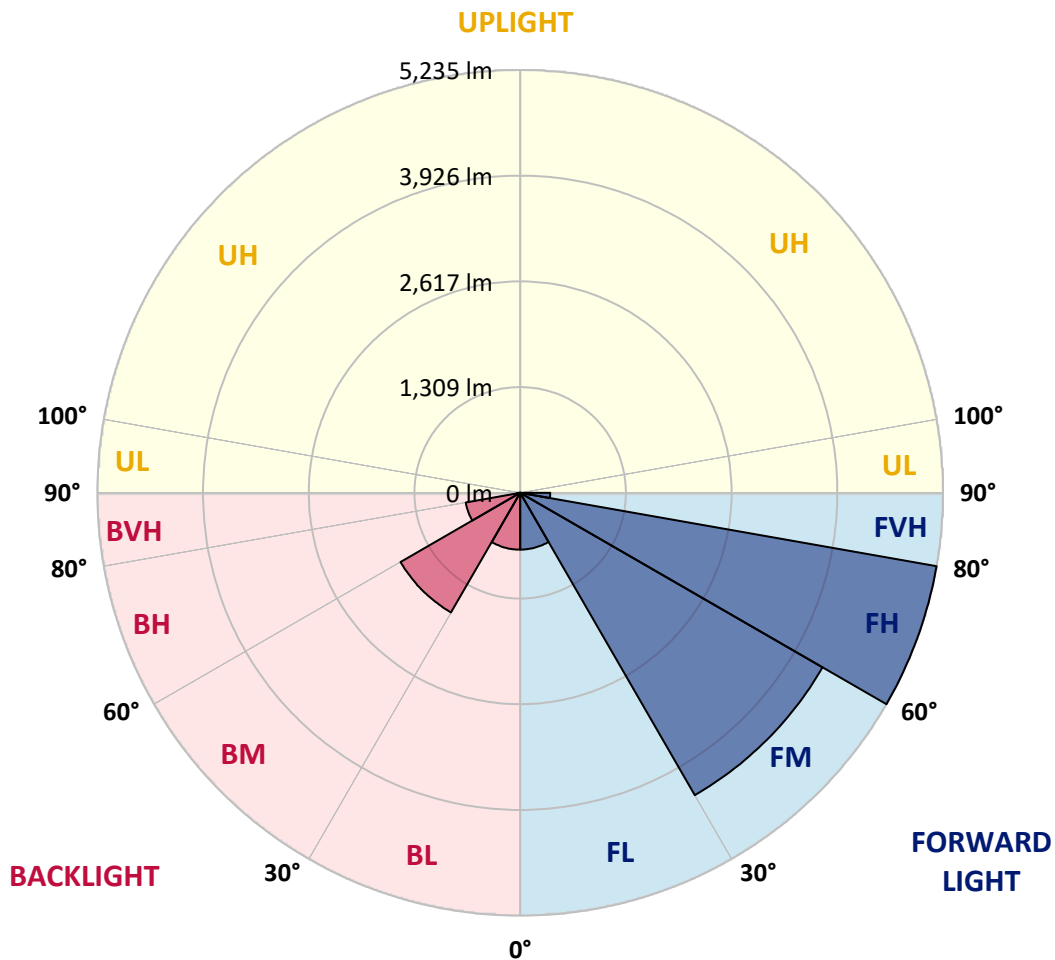
CATALOG NUMBER: VERD-CA2-100-730-U-T4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.6	5.1			
FM (30°-60°)	4321.9	31.4			
FH (60°-80°)	5234.7	38.0			G3/7500
FVH (80°-90°)	372.1	2.7			G3/500
BL (0°-30°)	704.0	5.1	B2/1000		
BM (30°-60°)	1710.1	12.4	B2/2500		
BH (60°-80°)	684.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	37.8	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





REPORT NUMBER: P509073  
 CATALOG NUMBER: VERD-CA2-100-730-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1
2.5°	1559.9	1574.7	1573.2	1570.2	1571.7	1573.2	1565.8	1561.3	1567.3	1568.8	1576.2
5°	1558.4	1570.2	1568.8	1568.8	1573.2	1571.7	1559.9	1551.0	1561.3	1568.8	1576.2
7.5°	1556.9	1567.3	1567.3	1562.8	1565.8	1565.8	1559.9	1565.8	1565.8	1577.7	1586.6
10°	1555.4	1564.3	1564.3	1565.8	1570.2	1571.7	1571.7	1576.2	1592.5	1597.0	1614.8
12.5°	1537.6	1545.0	1551.0	1559.9	1568.8	1571.7	1579.2	1592.5	1613.3	1623.7	1644.5
15°	1522.8	1533.1	1543.5	1552.4	1565.8	1568.8	1585.1	1607.4	1629.6	1651.9	1683.0
17.5°	1528.7	1542.0	1553.9	1561.3	1571.7	1574.7	1591.0	1620.7	1656.3	1689.0	1732.0
20°	1542.0	1556.9	1568.8	1577.7	1591.0	1594.0	1607.4	1635.5	1681.6	1732.0	1781.0
22.5°	1574.7	1585.1	1598.4	1602.9	1617.7	1620.7	1629.6	1657.8	1717.2	1781.0	1843.3
25°	1604.4	1616.3	1626.6	1631.1	1647.4	1650.4	1666.7	1690.5	1760.2	1832.9	1923.5
27.5°	1643.0	1654.8	1668.2	1672.7	1700.9	1703.8	1711.2	1746.9	1816.6	1901.2	2014.0
30°	1717.2	1724.6	1739.4	1757.3	1785.5	1788.4	1804.7	1841.8	1892.3	1996.2	2146.1
32.5°	1830.0	1840.4	1834.4	1858.2	1899.7	1899.7	1956.1	2018.5	2080.8	2153.5	2352.4
35°	2046.7	2040.7	2034.8	2014.0	2039.2	2048.1	2126.8	2232.2	2405.8	2610.6	2806.6
37.5°	2315.3	2313.8	2282.6	2235.2	2233.7	2236.6	2307.9	2486.0	2762.0	3217.7	3428.4
40°	2727.9	2739.8	2629.9	2532.0	2477.1	2465.2	2521.6	2745.7	3116.7	3723.8	3867.7
42.5°	3140.5	3115.3	3026.2	2867.4	2775.4	2768.0	2778.4	2974.3	3461.1	4133.4	4185.3
45°	3505.6	3524.9	3385.4	3288.9	3119.7	3122.7	3076.7	3256.3	3802.4	4422.8	4431.7
47.5°	3878.1	3893.0	3719.3	3609.5	3447.7	3447.7	3375.0	3517.5	4106.7	4698.9	4681.1
50°	4275.9	4310.0	4091.8	3925.6	3777.2	3771.3	3749.0	3838.1	4406.5	4931.9	4860.6
52.5°	4813.1	4695.9	4489.6	4264.0	4117.1	4099.3	4078.5	4142.3	4750.8	5121.9	4976.4
55°	5368.2	5209.4	4998.7	4695.9	4418.4	4443.6	4391.6	4464.4	5066.9	5348.9	5127.8
57.5°	5705.1	5764.5	5650.2	5390.5	4933.4	4928.9	4733.0	4771.6	5350.4	5540.4	5288.1
60°	6059.8	6143.0	6220.1	6065.8	5849.1	5751.1	5248.0	5098.1	5669.5	5679.9	5270.3
62.5°	6245.4	6229.0	6564.5	6582.3	6750.0	6761.9	6270.6	5521.1	5858.0	5797.1	5332.6
65°	5914.4	5923.3	6475.4	6763.3	7340.7	7374.8	7195.2	6264.7	6016.8	5852.1	5261.4
67.5°	5353.4	5403.8	5817.9	6530.3	7760.7	7754.8	7365.9	6911.8	6058.4	5840.2	5157.5
70°	4378.3	4431.7	4856.2	5890.7	7668.7	7619.7	7293.2	6963.7	6022.7	5733.3	4639.5
72.5°	3358.7	3351.2	3790.6	4704.8	6991.9	7039.4	6920.7	6597.1	5852.1	5276.2	3800.9
75°	2367.2	2330.1	2720.5	3566.4	5766.0	5941.1	6346.3	6257.2	5206.5	4342.7	2540.9
77.5°	1553.9	1610.3	1922.0	2637.4	4534.1	4681.1	5240.6	5064.0	3852.9	2770.9	917.2
80°	987.0	1037.4	1289.7	1883.4	3296.3	3363.1	3820.2	3220.6	2058.5	914.2	127.6
82.5°	599.6	607.0	831.1	1273.4	2273.7	2273.7	2405.8	1800.3	805.9	118.7	83.1
85°	319.1	336.9	448.2	687.2	1145.8	1231.9	1090.9	687.2	155.8	65.3	50.5
87.5°	100.9	102.4	146.9	265.7	246.4	253.8	84.6	35.6	17.8	11.9	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509073  
 CATALOG NUMBER: VERD-CA2-100-730-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1
2.5°	1579.2	1580.6	1589.5	1594.0	1595.5	1591.0	1601.4	1616.3	1611.8	1628.1	1622.2
5°	1579.2	1586.6	1598.4	1597.0	1608.8	1614.8	1626.6	1641.5	1637.0	1660.8	1651.9
7.5°	1591.0	1602.9	1611.8	1629.6	1638.5	1635.5	1662.3	1674.1	1668.2	1686.0	1677.1
10°	1620.7	1634.1	1645.9	1665.2	1678.6	1672.7	1687.5	1694.9	1684.5	1702.3	1697.9
12.5°	1654.8	1669.7	1693.4	1706.8	1717.2	1706.8	1706.8	1702.3	1687.5	1703.8	1693.4
15°	1693.4	1712.7	1745.4	1760.2	1757.3	1739.4	1723.1	1691.9	1651.9	1659.3	1644.5
17.5°	1745.4	1769.1	1806.2	1815.1	1803.3	1760.2	1717.2	1660.8	1589.5	1571.7	1559.9
20°	1801.8	1828.5	1880.4	1876.0	1849.3	1773.6	1705.3	1617.7	1506.4	1456.0	1432.2
22.5°	1879.0	1905.7	1954.6	1927.9	1873.0	1773.6	1657.8	1536.1	1404.0	1329.8	1313.5
25°	1963.6	2000.7	2021.4	1962.1	1867.1	1733.5	1594.0	1433.7	1264.5	1184.4	1168.0
27.5°	2067.4	2092.7	2071.9	1966.5	1837.4	1666.7	1490.1	1297.2	1135.4	1067.1	1043.4
30°	2189.1	2192.1	2110.5	1957.6	1770.6	1571.7	1362.5	1159.1	1034.5	970.6	955.8
32.5°	2350.9	2321.2	2144.6	1916.1	1680.1	1441.1	1220.0	1067.1	963.2	883.1	862.3
35°	2772.4	2637.4	2220.3	1868.6	1570.2	1295.7	1096.8	984.0	896.4	805.9	789.6
37.5°	3318.6	3079.6	2353.9	1819.6	1445.6	1162.1	1015.2	935.0	860.8	759.9	737.6
40°	3728.2	3452.2	2560.2	1766.2	1331.3	1067.1	970.6	915.7	834.1	742.1	718.3
42.5°	4041.4	3762.4	2772.4	1706.8	1224.4	992.9	939.5	902.4	823.7	737.6	718.3
45°	4258.1	3979.0	2955.0	1637.0	1087.9	929.1	915.7	880.1	804.4	721.3	702.0
47.5°	4477.7	4131.9	3057.4	1564.3	973.6	893.5	881.6	841.5	771.8	693.1	678.3
50°	4669.2	4305.6	3144.9	1490.1	883.1	850.4	843.0	789.6	722.8	648.6	629.3
52.5°	4724.1	4347.1	3109.3	1485.6	801.4	804.4	789.6	746.5	684.2	604.1	584.8
55°	4848.8	4462.9	3023.2	1349.1	722.8	733.2	730.2	707.9	650.1	575.9	561.0
57.5°	4902.2	4375.3	2898.6	1003.3	641.2	650.1	675.3	675.3	624.8	558.0	544.7
60°	4894.8	4378.3	2675.9	702.0	561.0	584.8	620.4	620.4	580.3	515.0	498.7
62.5°	4838.4	4265.5	2306.4	535.8	510.6	544.7	586.2	559.5	523.9	451.2	439.3
65°	4744.9	3955.3	1598.4	470.5	482.4	522.4	543.2	510.6	467.5	402.2	394.8
67.5°	4370.9	3435.8	743.6	430.4	458.6	489.8	507.6	461.6	417.1	357.7	348.8
70°	3720.8	2514.2	320.6	399.2	430.4	452.7	470.5	423.0	375.5	323.5	320.6
72.5°	2705.6	1341.7	267.1	350.3	382.9	406.7	428.9	381.4	335.4	274.6	274.6
75°	1303.1	222.6	230.0	290.9	320.6	368.1	378.5	311.7	259.7	209.3	204.8
77.5°	160.3	144.0	198.9	231.5	256.8	282.0	307.2	270.1	224.1	172.2	163.3
80°	100.9	100.9	157.3	161.8	175.1	201.8	225.6	210.8	176.6	99.4	92.0
82.5°	74.2	80.1	103.9	77.2	92.0	115.8	132.1	149.9	127.6	69.8	65.3
85°	47.5	51.9	49.0	38.6	50.5	77.2	105.4	103.9	86.1	51.9	49.0
87.5°	10.4	10.4	10.4	8.9	10.4	13.4	25.2	49.0	35.6	28.2	26.7
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)