

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: P509399

Luminaire Tested: **VERD-CA2-90-727-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-90-727-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1250mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10980 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

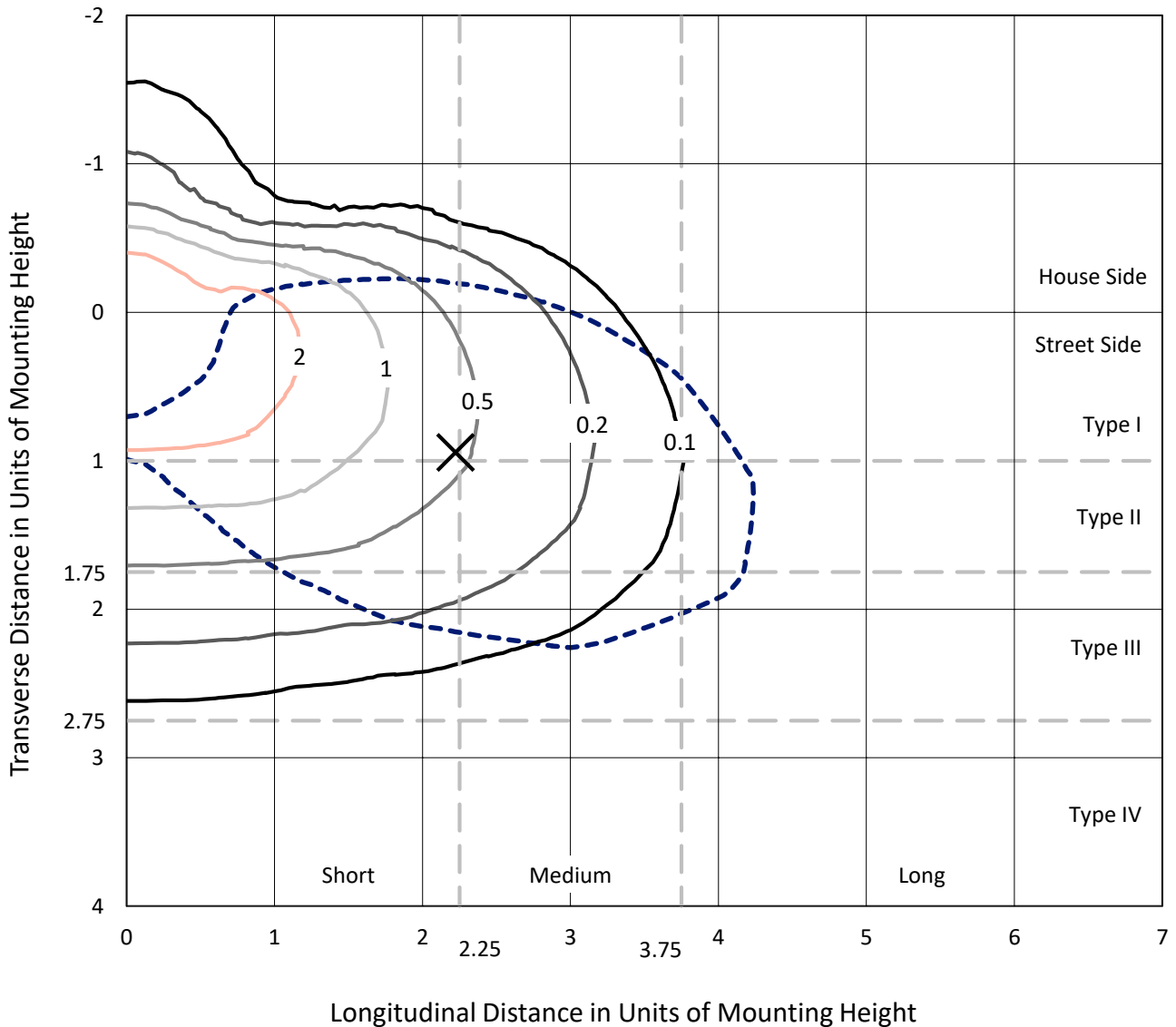
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509399  
 CATALOG NUMBER: VERD-CA2-90-727-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

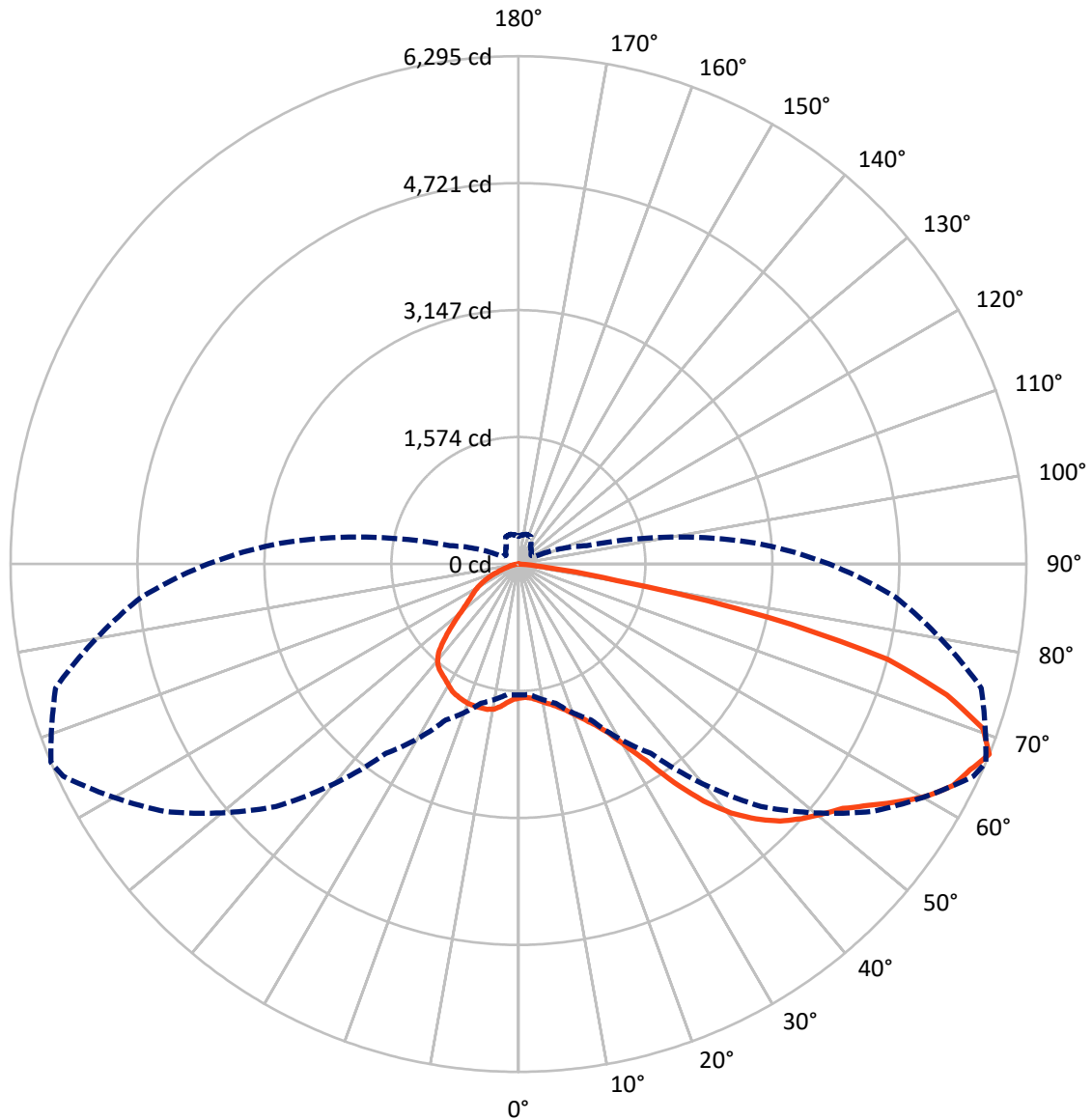
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P509399  
CATALOG NUMBER: VERD-CA2-90-727-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: VERD-CA2-90-727-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2510.7	0.0	2510.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8469.4	0.0	8469.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10980.0	0.0	10980.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	1.5
10°-20°	538.4	4.9
20°-30°	930.3	8.5
30°-40°	1412.1	12.9
40°-50°	1918.8	17.5
50°-60°	2282.0	20.8
60°-70°	2347.8	21.4
70°-80°	1280.7	11.7
80°-90°	101.8	0.9
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°	10980.0	100.0
0°-180°	10980.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509399

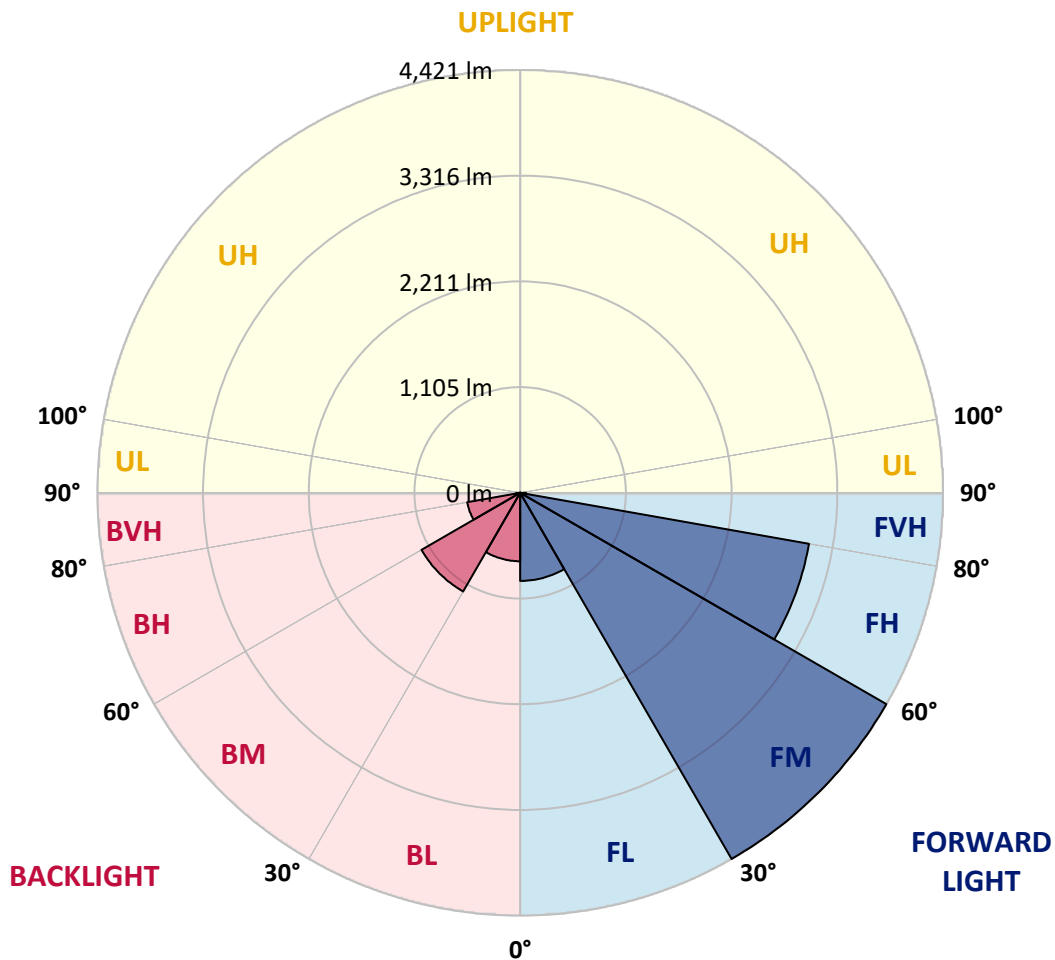
CATALOG NUMBER: VERD-CA2-90-727-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.0	8.4			
FM (30°-60°)	4421.0	40.3			
FH (60°-80°)	3066.5	27.9			G2/5000
FVH (80°-90°)	60.9	0.6			G1/100
BL (0°-30°)	715.9	6.5	B2/1000		
BM (30°-60°)	1191.8	10.9	B2/2500		
BH (60°-80°)	562.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	40.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





REPORT NUMBER: P509399

CATALOG NUMBER: VERD-CA2-90-727-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1670.6	1663.5	1654.0	1657.5	1650.4	1662.3	1657.5	1655.1	1655.1	1656.3	1662.3
5°	1708.7	1701.5	1694.4	1693.2	1678.9	1683.7	1676.6	1669.4	1669.4	1668.2	1670.6
7.5°	1775.2	1765.7	1757.4	1756.2	1738.4	1736.0	1714.6	1700.3	1700.3	1699.1	1702.7
10°	1863.2	1859.7	1843.0	1832.3	1810.9	1796.6	1770.5	1747.9	1743.1	1736.0	1745.5
12.5°	1947.7	1946.5	1931.0	1919.1	1889.4	1864.4	1821.6	1790.7	1784.8	1776.4	1783.6
15°	2053.5	2042.8	2026.1	2019.0	1976.2	1938.1	1889.4	1843.0	1837.1	1827.6	1833.5
17.5°	2170.0	2164.1	2137.9	2129.6	2076.1	2032.1	1971.4	1912.0	1902.5	1889.4	1888.2
20°	2310.3	2299.6	2279.4	2255.6	2203.3	2140.3	2070.1	2002.3	1994.0	1983.3	1960.7
22.5°	2461.3	2449.4	2429.2	2404.2	2337.7	2271.1	2183.1	2097.5	2092.7	2085.6	2044.0
25°	2605.2	2585.0	2587.4	2563.6	2504.1	2419.7	2316.3	2214.0	2211.6	2210.4	2143.8
27.5°	2758.6	2737.2	2730.0	2721.7	2665.8	2586.2	2469.6	2372.1	2363.8	2365.0	2263.9
30°	2902.5	2892.9	2887.0	2881.1	2853.7	2782.4	2670.6	2583.8	2610.0	2607.6	2468.5
32.5°	3014.2	3007.1	3032.1	3060.6	3053.5	2994.0	2916.7	2877.5	2903.6	2988.1	2866.8
35°	3112.9	3109.3	3156.9	3217.6	3260.4	3217.6	3209.2	3269.9	3330.5	3470.8	3400.7
37.5°	3219.9	3215.2	3255.6	3359.0	3434.0	3447.0	3510.1	3665.8	3724.1	3864.4	3717.0
40°	3218.7	3224.7	3322.2	3454.2	3590.9	3701.5	3831.1	3982.1	4057.0	4123.6	3895.3
42.5°	3166.4	3170.0	3292.5	3543.3	3741.9	3959.5	4074.9	4268.7	4319.8	4332.9	4105.8
45°	3112.9	3115.3	3248.5	3530.3	3868.0	4200.9	4329.3	4506.5	4545.7	4500.5	4248.5
47.5°	3035.6	3051.1	3195.0	3517.2	3976.2	4423.2	4526.7	4702.7	4718.1	4661.1	4367.4
50°	2944.1	2952.4	3117.7	3474.4	4047.5	4561.2	4683.6	4843.0	4872.7	4808.5	4514.8
52.5°	2832.3	2839.4	3019.0	3417.3	4086.7	4667.0	4803.7	4994.0	5034.4	5005.9	4644.4
55°	2703.9	2707.5	2890.6	3324.6	4076.0	4713.4	4908.4	5208.0	5275.8	5205.6	4752.6
57.5°	2543.4	2556.4	2764.5	3185.4	3995.2	4771.6	5097.4	5472.0	5558.8	5409.0	4833.5
60°	2378.1	2391.2	2580.2	3023.7	3859.6	4797.8	5292.4	5756.2	5832.3	5601.6	4883.4
62.5°	2192.6	2210.4	2367.4	2780.0	3617.1	4763.3	5436.3	6004.7	6047.5	5716.9	4870.3
65°	1922.7	1932.2	2103.4	2486.3	3300.8	4583.8	5430.4	6137.8	6152.1	5844.1	4813.2
67.5°	1623.0	1624.2	1785.9	2132.0	2865.6	4248.5	5347.1	6224.6	6294.8	5938.1	4688.4
70°	1234.2	1250.9	1376.9	1633.7	2342.4	3675.3	5072.5	6139.0	6105.7	5681.2	4330.5
72.5°	881.1	871.6	935.8	1109.4	1639.7	2835.9	4373.3	5546.9	5554.0	5174.7	3768.1
75°	468.5	470.9	525.6	671.8	837.1	1845.4	3498.2	4686.0	4728.8	4437.5	2948.8
77.5°	104.6	118.9	180.7	256.8	363.8	591.0	1897.7	3073.7	3154.5	2920.3	1615.9
80°	80.9	82.0	118.9	146.3	160.5	283.0	602.8	1115.3	1237.8	1168.8	607.6
82.5°	53.5	54.7	78.5	80.9	77.3	129.6	273.5	334.1	367.4	321.0	225.9
85°	28.5	29.7	35.7	39.2	30.9	38.0	35.7	28.5	29.7	26.2	26.2
87.5°	5.9	3.6	4.8	3.6	3.6	2.4	3.6	3.6	3.6	3.6	3.6
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: P509399  
 CATALOG NUMBER: VERD-CA2-90-727-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1662.3	1664.7	1670.6	1680.1	1684.9	1695.6	1702.7	1720.5	1745.5	1737.2	1726.5
5°	1671.8	1678.9	1699.1	1724.1	1743.1	1771.7	1785.9	1820.4	1849.0	1846.6	1827.6
7.5°	1707.5	1722.9	1747.9	1784.8	1816.9	1845.4	1865.6	1902.5	1928.6	1917.9	1900.1
10°	1752.7	1768.1	1795.5	1828.7	1852.5	1883.4	1896.5	1926.3	1942.9	1929.8	1914.4
12.5°	1794.3	1802.6	1821.6	1846.6	1859.7	1879.9	1885.8	1907.2	1922.7	1916.7	1897.7
15°	1834.7	1833.5	1837.1	1844.2	1849.0	1853.7	1854.9	1870.4	1881.1	1869.2	1856.1
17.5°	1879.9	1868.0	1852.5	1840.6	1822.8	1814.5	1799.0	1806.2	1805.0	1795.5	1784.8
20°	1937.0	1915.5	1868.0	1831.1	1784.8	1747.9	1715.8	1709.8	1709.8	1683.7	1682.5
22.5°	2004.7	1969.1	1889.4	1808.5	1733.6	1675.4	1615.9	1581.4	1556.5	1537.4	1529.1
25°	2092.7	2027.3	1908.4	1777.6	1667.0	1561.2	1472.0	1424.5	1376.9	1346.0	1341.2
27.5°	2186.7	2115.3	1920.3	1750.3	1575.5	1430.4	1306.8	1209.3	1165.3	1145.0	1126.0
30°	2340.0	2214.0	1941.7	1692.0	1460.1	1269.9	1105.8	991.7	948.9	934.6	922.7
32.5°	2712.2	2469.6	1961.9	1632.6	1336.5	1092.7	876.3	780.0	743.2	757.4	762.2
35°	3178.3	2850.1	2058.2	1563.6	1208.1	891.8	674.2	610.0	612.4	633.8	640.9
37.5°	3494.6	3185.4	2254.4	1476.8	1023.8	661.1	522.0	501.8	519.6	538.6	542.2
40°	3680.1	3338.8	2392.4	1369.8	806.2	494.6	392.4	378.1	416.2	459.0	485.1
42.5°	3877.5	3469.6	2463.7	1230.7	566.0	357.9	300.8	311.5	372.2	409.0	425.7
45°	3983.3	3571.9	2431.6	1032.1	385.3	278.2	269.9	299.6	360.3	393.6	398.3
47.5°	4097.4	3674.1	2354.3	825.2	294.9	264.0	265.2	300.8	362.7	398.3	398.3
50°	4196.1	3758.6	2216.4	646.8	280.6	254.5	266.3	306.8	366.2	397.1	396.0
52.5°	4310.3	3796.6	2020.2	523.2	266.3	246.1	267.5	311.5	360.3	378.1	375.7
55°	4346.0	3769.3	1926.3	437.6	255.6	241.4	272.3	318.7	357.9	361.5	355.5
57.5°	4346.0	3695.5	1819.2	373.4	246.1	241.4	274.7	317.5	371.0	393.6	391.2
60°	4326.9	3618.3	1655.1	334.1	233.1	239.0	275.9	335.3	441.1	466.1	464.9
62.5°	4266.3	3493.4	1453.0	294.9	220.0	240.2	272.3	360.3	504.2	493.5	467.3
65°	4122.4	3258.0	1178.3	259.2	205.7	240.2	267.5	396.0	448.3	428.1	418.5
67.5°	3851.3	2961.9	876.3	222.4	189.1	224.7	260.4	371.0	380.5	357.9	343.6
70°	3493.4	2508.9	562.4	187.9	171.2	211.6	255.6	348.4	367.4	340.1	322.2
72.5°	2910.8	1992.8	325.8	153.4	145.1	195.0	246.1	337.7	361.5	324.6	299.6
75°	2053.5	1258.0	214.0	113.0	116.5	166.5	228.3	316.3	338.9	293.7	258.0
77.5°	1046.4	472.1	152.2	83.2	78.5	127.2	197.4	291.3	334.1	296.1	253.3
80°	369.8	237.8	99.9	54.7	51.1	78.5	151.0	247.3	313.9	288.9	280.6
82.5°	158.1	118.9	54.7	34.5	30.9	39.2	85.6	195.0	275.9	261.6	316.3
85°	22.6	20.2	15.5	13.1	13.1	17.8	27.3	96.3	186.7	212.8	258.0
87.5°	3.6	3.6	3.6	2.4	2.4	2.4	1.2	14.3	61.8	92.7	128.4
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)