

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: P509349

Luminaire Tested: **VERD-CA2-80-727-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-80-727-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9781 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

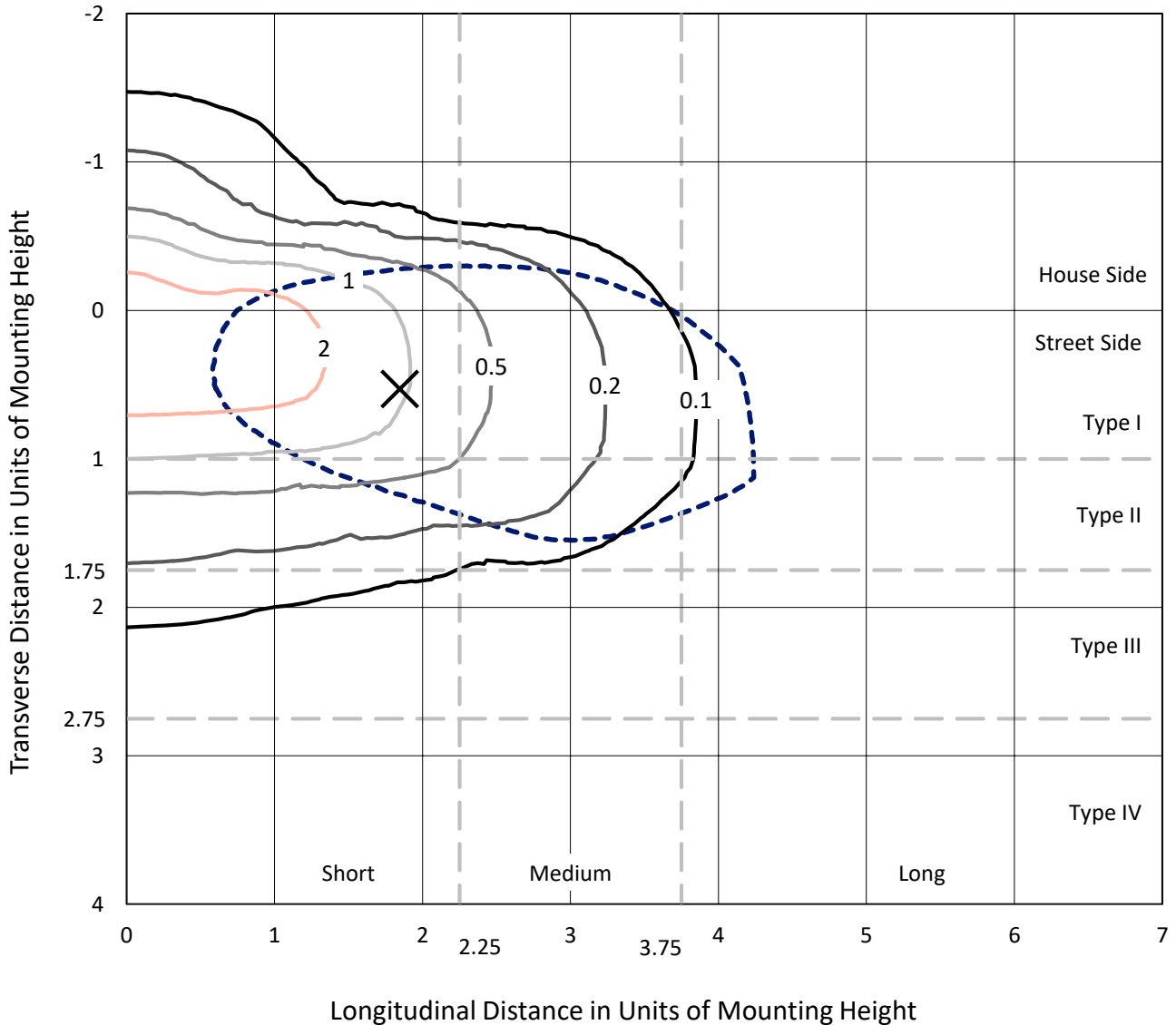
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

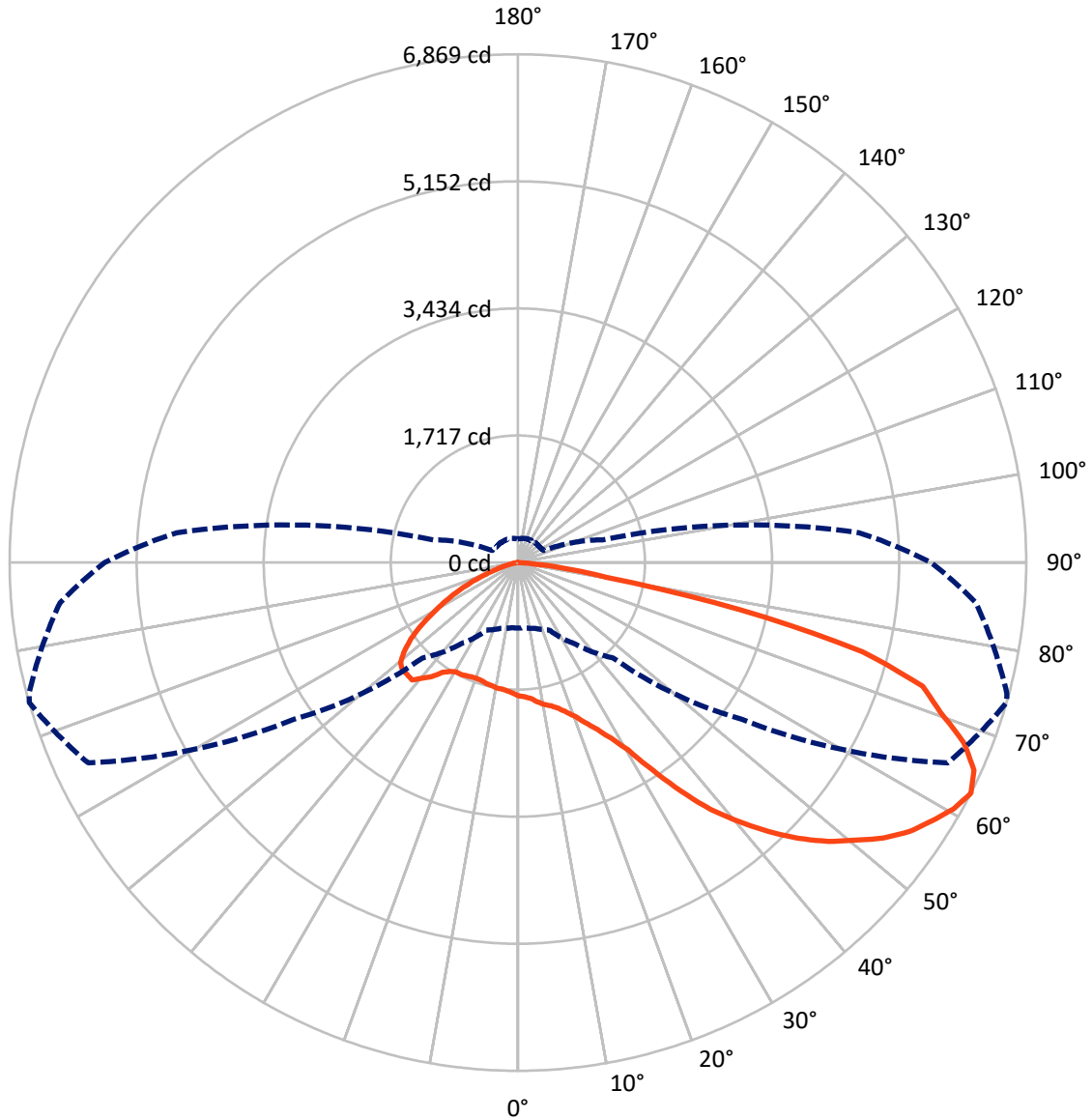
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2525.5	0.0	2525.5
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	7255.5	0.0	7255.5
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	9781.0	0.0	9781.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	1.8
10°-20°	528.4	5.4
20°-30°	891.0	9.1
30°-40°	1301.8	13.3
40°-50°	1733.3	17.7
50°-60°	1994.7	20.4
60°-70°	1927.6	19.7
70°-80°	1109.6	11.3
80°-90°	121.4	1.2
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°	9781.0	100.0
0°-180°	9781.0	100.0

**Coefficient of Utilization**



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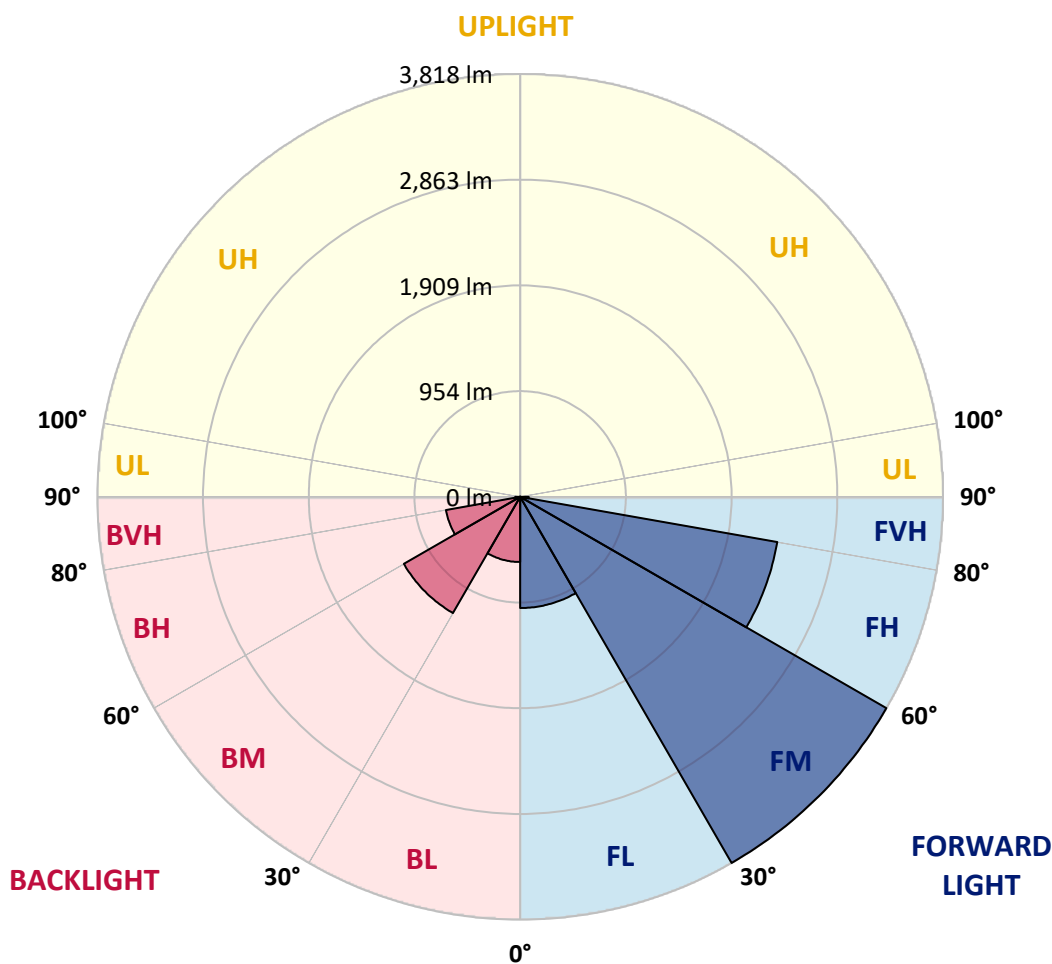
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.9	10.3			
FM (30°-60°)	3817.5	39.0			
FH (60°-80°)	2357.3	24.1			G2/5000
FVH (80°-90°)	76.8	0.8			G1/100
BL (0°-30°)	588.8	6.0	B2/1000		
BM (30°-60°)	1212.2	12.4	B2/2500		
BH (60°-80°)	679.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.6	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6
2.5°	1930.5	1916.6	1908.1	1898.5	1886.8	1882.5	1856.9	1834.5	1816.4	1817.4	1805.7
5°	2000.9	1985.9	1966.7	1963.6	1948.6	1945.4	1920.9	1885.7	1846.2	1840.9	1805.7
7.5°	2079.8	2071.3	2059.5	2044.6	2020.1	2004.1	1968.9	1941.2	1900.6	1895.3	1826.0
10°	2175.8	2169.4	2160.9	2160.9	2128.9	2094.7	2052.1	1982.7	1950.8	1945.4	1861.2
12.5°	2288.9	2269.7	2241.9	2225.9	2196.1	2174.7	2128.9	2055.3	1985.9	1983.8	1894.2
15°	2362.4	2346.4	2328.3	2321.9	2283.5	2248.3	2199.3	2140.6	2043.5	2036.1	1934.8
17.5°	2444.6	2429.6	2408.3	2396.6	2372.0	2331.5	2287.8	2211.0	2124.6	2117.1	1980.6
20°	2490.4	2474.4	2468.0	2470.2	2461.6	2441.4	2389.1	2319.8	2220.6	2211.0	2043.5
22.5°	2541.6	2531.0	2533.1	2549.1	2565.1	2557.6	2517.1	2440.3	2355.0	2340.0	2144.9
25°	2542.7	2534.2	2563.0	2624.8	2659.0	2676.0	2654.7	2591.8	2501.1	2487.2	2273.9
27.5°	2560.8	2548.0	2579.0	2644.0	2747.5	2782.7	2790.1	2766.7	2688.8	2671.8	2428.6
30°	2513.9	2505.4	2552.3	2665.4	2786.9	2904.3	2946.9	2983.2	2939.5	2940.5	2667.5
32.5°	2432.8	2417.9	2489.4	2628.0	2854.1	3014.1	3127.2	3273.3	3340.5	3334.1	3083.4
35°	2278.2	2286.7	2382.7	2595.0	2856.3	3126.1	3348.0	3609.3	3791.6	3787.4	3514.3
37.5°	2168.3	2164.1	2277.1	2502.2	2855.2	3225.3	3562.3	3997.5	4233.2	4226.8	3884.4
40°	2036.1	2037.1	2150.2	2387.0	2805.1	3287.2	3784.2	4365.5	4605.4	4595.8	4238.5
42.5°	1894.2	1898.5	2004.1	2246.2	2735.7	3334.1	3982.6	4737.7	4970.2	4978.7	4522.2
45°	1767.3	1769.4	1874.0	2095.8	2613.1	3339.4	4160.7	5089.7	5315.8	5295.5	4819.8
47.5°	1580.7	1582.8	1737.4	1952.9	2451.0	3295.7	4307.9	5424.6	5631.5	5588.8	5071.5
50°	1238.3	1242.6	1426.0	1804.6	2253.7	3195.4	4424.1	5739.2	5899.2	5881.1	5329.6
52.5°	1143.4	1140.2	1217.0	1627.6	2076.6	3014.1	4497.7	6021.8	6184.0	6181.8	5542.9
55°	1095.4	1092.2	1117.8	1319.3	1902.8	2745.3	4495.6	6241.6	6419.7	6375.9	5738.1
57.5°	1010.0	1003.6	1069.8	1169.0	1708.6	2410.4	4388.9	6438.9	6590.3	6577.5	5914.1
60°	949.2	943.9	988.7	1080.4	1501.7	2070.2	4114.8	6541.3	6762.0	6767.4	6062.4
62.5°	886.3	883.1	921.5	1006.8	1339.6	1821.7	3692.5	6406.9	6868.7	6839.9	6210.6
65°	814.9	812.7	849.0	918.3	1178.6	1632.9	3278.6	6166.9	6772.7	6805.8	6229.8
67.5°	729.5	728.5	763.7	811.7	1002.6	1443.1	2645.1	5884.3	6498.6	6462.3	5983.4
70°	625.0	620.7	664.5	709.3	839.4	1227.6	2058.5	5381.9	6052.8	6184.0	5492.8
72.5°	525.8	523.7	565.3	598.3	695.4	1002.6	1501.7	4654.5	5718.9	5530.2	4948.9
75°	411.7	401.0	444.8	475.7	548.2	797.8	1023.9	3109.0	4813.4	4774.0	4157.5
77.5°	166.4	193.0	230.4	258.1	306.1	452.2	535.4	1475.1	3070.6	3206.1	2891.5
80°	64.0	68.3	164.3	185.6	205.8	260.2	205.8	621.8	1211.6	1321.5	1674.5
82.5°	36.3	40.5	81.1	77.9	76.8	66.1	76.8	305.0	632.5	693.3	808.5
85°	20.3	22.4	33.1	36.3	30.9	26.7	23.5	80.0	157.9	149.3	167.5
87.5°	3.2	4.3	5.3	5.3	3.2	3.2	3.2	4.3	4.3	4.3	5.3
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°	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6
2.5°	1794.0	1782.2	1770.5	1756.6	1739.6	1728.9	1724.6	1730.0	1744.9	1726.8	1711.8
5°	1787.6	1771.6	1744.9	1718.2	1696.9	1678.8	1654.2	1652.1	1656.4	1648.9	1629.7
7.5°	1801.4	1778.0	1723.6	1705.4	1660.6	1618.0	1604.1	1598.8	1586.0	1571.1	1552.9
10°	1829.2	1781.2	1725.7	1672.4	1630.8	1584.9	1531.6	1532.7	1527.3	1510.3	1493.2
12.5°	1843.0	1786.5	1705.4	1648.9	1584.9	1528.4	1476.1	1452.7	1462.3	1448.4	1430.3
15°	1868.6	1808.9	1698.0	1614.8	1527.3	1463.3	1423.9	1389.7	1368.4	1371.6	1360.9
17.5°	1916.6	1829.2	1678.8	1577.5	1482.5	1406.8	1331.1	1327.9	1295.9	1277.7	1261.7
20°	1966.7	1865.4	1676.6	1536.9	1410.0	1316.1	1255.3	1221.2	1202.0	1187.1	1175.4
22.5°	2031.8	1915.6	1684.1	1513.5	1344.9	1239.4	1161.5	1115.6	1084.7	1074.0	1065.5
25°	2123.5	1978.5	1704.4	1471.9	1276.7	1155.1	1049.5	1001.5	966.3	957.8	951.4
27.5°	2249.4	2058.5	1724.6	1427.1	1196.7	1036.7	924.7	877.8	838.3	837.3	825.5
30°	2447.8	2181.1	1732.1	1387.6	1111.4	909.8	797.8	754.1	724.2	712.5	721.0
32.5°	2817.9	2452.0	1779.0	1326.8	1003.6	786.1	691.1	655.9	622.9	610.1	618.6
35°	3217.8	2776.3	1858.0	1285.2	885.3	668.7	603.7	562.1	521.6	515.2	512.0
37.5°	3511.1	3071.7	2007.3	1217.0	773.3	597.3	512.0	477.8	454.4	441.6	453.3
40°	3843.9	3317.0	2120.3	1144.4	659.1	521.6	426.6	416.0	405.3	396.8	409.6
42.5°	4107.4	3569.8	2254.7	1048.4	567.4	442.6	379.7	388.2	393.6	389.3	390.4
45°	4349.5	3757.5	2263.3	902.3	484.2	384.0	365.8	382.9	395.7	393.6	392.5
47.5°	4586.2	3981.5	2283.5	747.7	424.5	369.0	366.9	379.7	396.8	400.0	400.0
50°	4830.5	4152.1	2252.6	601.5	402.1	371.2	370.1	369.0	390.4	391.4	394.6
52.5°	5013.9	4290.8	2106.5	497.0	401.0	377.6	375.4	364.8	374.4	381.8	376.5
55°	5208.0	4463.6	1922.0	457.6	398.9	379.7	388.2	370.1	363.7	357.3	363.7
57.5°	5392.6	4584.1	1679.8	434.1	390.4	376.5	393.6	369.0	355.2	337.0	330.6
60°	5534.4	4611.8	1410.0	409.6	379.7	369.0	370.1	361.6	343.4	321.0	311.4
62.5°	5582.4	4627.8	1186.0	386.1	358.4	357.3	348.8	345.6	338.1	324.2	320.0
65°	5541.9	4446.5	947.1	357.3	340.2	341.3	328.5	317.8	300.8	278.4	276.2
67.5°	5263.5	4127.6	726.3	321.0	312.5	323.2	309.3	291.2	272.0	257.0	259.2
70°	4786.8	3750.1	509.8	270.9	280.5	299.7	294.4	270.9	249.6	236.8	238.9
72.5°	4256.7	3177.3	346.6	211.2	228.2	268.8	268.8	252.8	231.4	214.4	210.1
75°	3357.6	2495.8	224.0	139.7	150.4	219.7	237.8	213.3	189.8	179.2	174.9
77.5°	2279.3	1625.4	142.9	80.0	100.3	144.0	187.7	190.9	225.0	226.1	216.5
80°	1339.6	930.0	87.5	46.9	50.1	83.2	150.4	188.8	238.9	168.5	154.7
82.5°	666.6	396.8	39.5	28.8	29.9	41.6	81.1	216.5	184.5	105.6	101.3
85°	148.3	65.1	16.0	14.9	17.1	21.3	41.6	179.2	113.1	85.3	83.2
87.5°	5.3	4.3	4.3	4.3	3.2	3.2	8.5	58.7	44.8	37.3	35.2
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)