

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: P509317

Luminaire Tested: **VERD-CA2-70-740-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509317  
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-CA2-70-740-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 980mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10457 lumens  
Efficiency: N/A  
Efficacy: 142.1 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

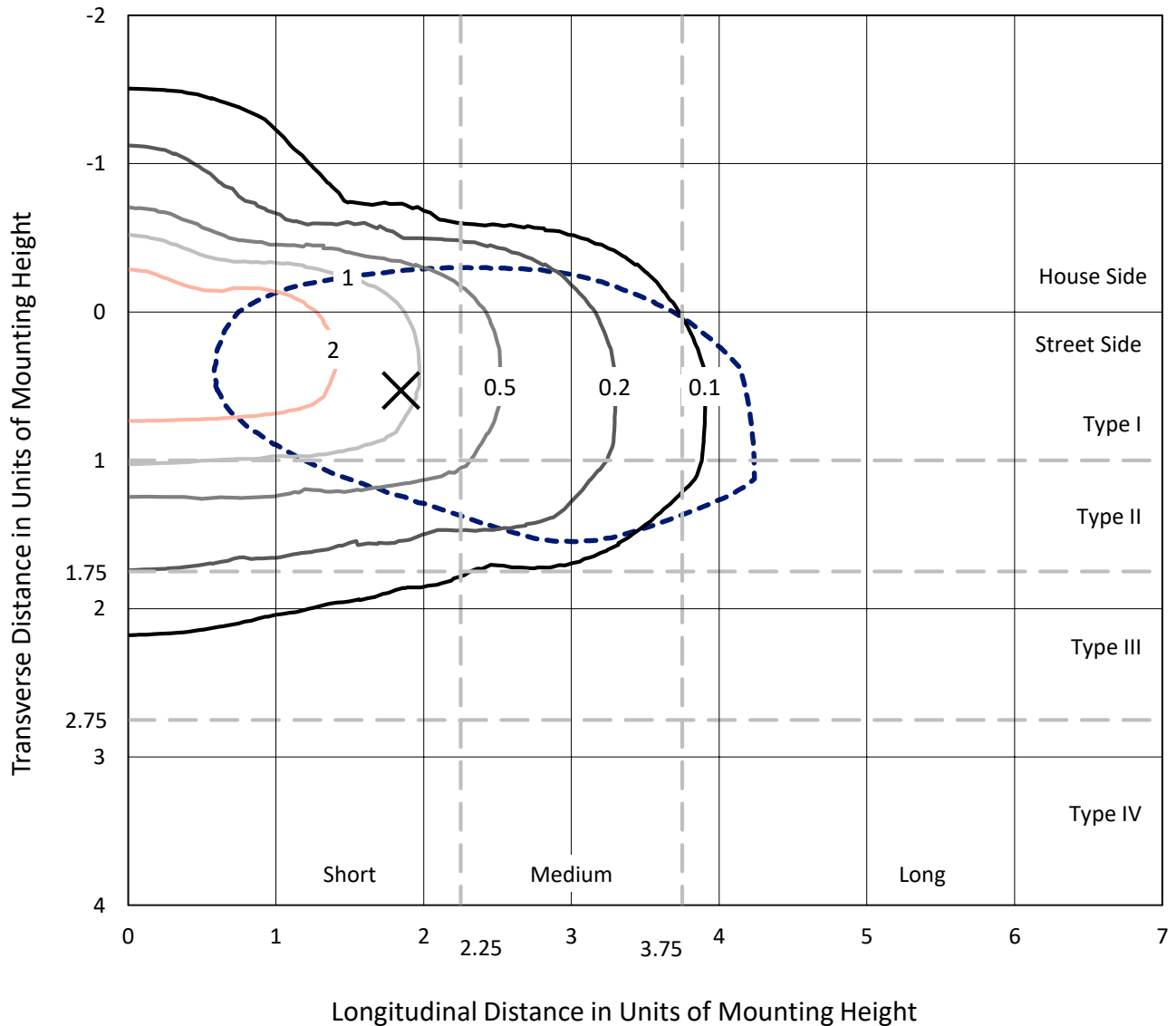
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

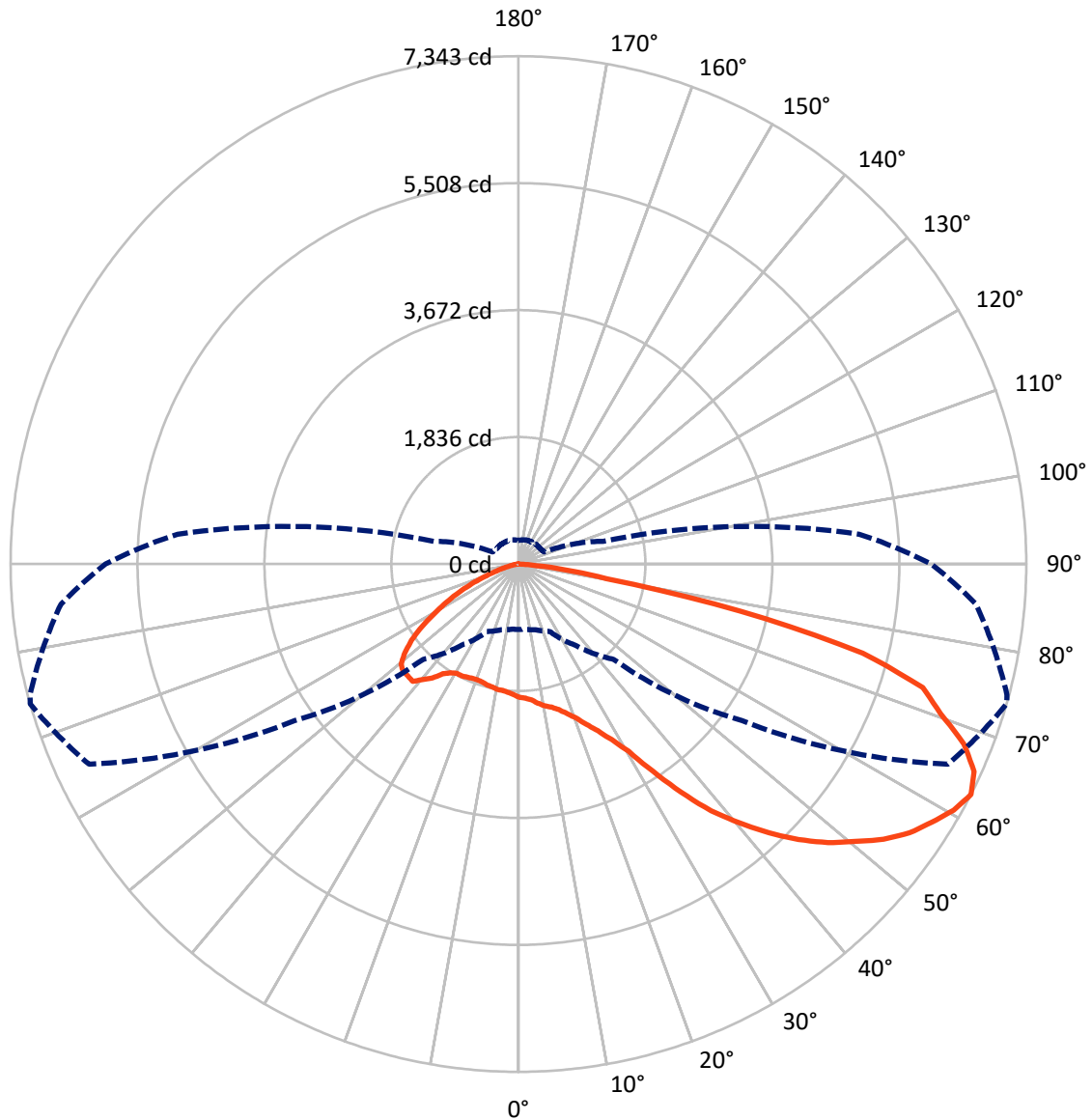
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	2700.1	0.0	2700.1
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	7756.9	0.0	7756.9
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	10457.0	0.0	10457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.3	1.8
10°-20°	564.9	5.4
20°-30°	952.5	9.1
30°-40°	1391.7	13.3
40°-50°	1853.1	17.7
50°-60°	2132.6	20.4
60°-70°	2060.8	19.7
70°-80°	1186.3	11.3
80°-90°	129.8	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°	10457.0	100.0
0°-180°	10457.0	100.0

**Coefficient of Utilization**



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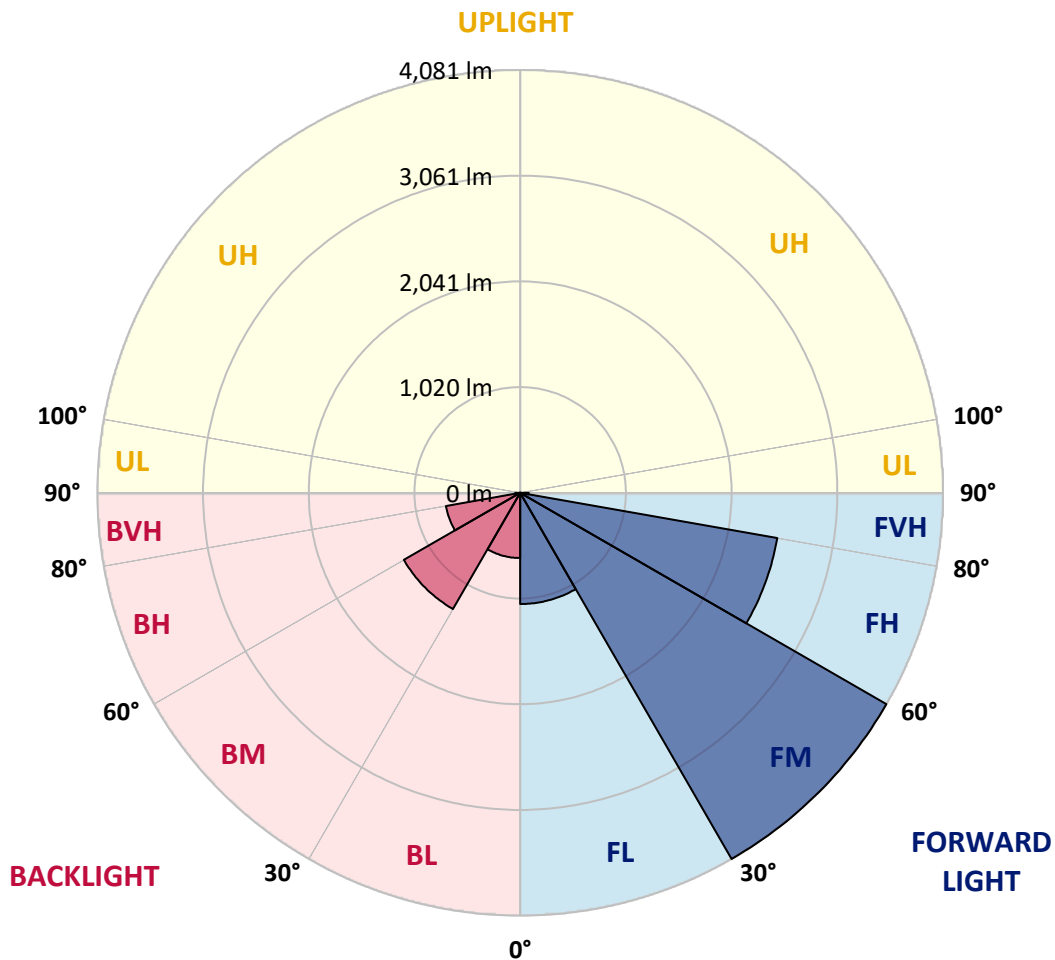
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.2	10.3			
FM (30°-60°)	4081.4	39.0			
FH (60°-80°)	2520.2	24.1			G2/5000
FVH (80°-90°)	82.1	0.8			G1/100
BL (0°-30°)	629.5	6.0	B2/1000		
BM (30°-60°)	1296.0	12.4	B2/2500		
BH (60°-80°)	726.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	47.7	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°	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	2063.9	2049.1	2040.0	2029.7	2017.2	2012.6	1985.2	1961.3	1941.9	1943.0	1930.5
5°	2139.2	2123.2	2102.7	2099.3	2083.3	2079.9	2053.6	2016.0	1973.8	1968.1	1930.5
7.5°	2223.5	2214.4	2201.9	2185.9	2159.7	2142.6	2105.0	2075.3	2032.0	2026.3	1952.2
10°	2326.2	2319.3	2310.2	2310.2	2276.0	2239.5	2193.9	2119.8	2085.6	2079.9	1989.8
12.5°	2447.0	2426.5	2396.9	2379.8	2347.8	2325.0	2276.0	2197.3	2123.2	2120.9	2025.1
15°	2525.7	2508.6	2489.2	2482.4	2441.3	2403.7	2351.3	2288.5	2184.8	2176.8	2068.5
17.5°	2613.5	2597.6	2574.8	2562.2	2536.0	2492.7	2445.9	2363.8	2271.4	2263.5	2117.5
20°	2662.6	2645.5	2638.6	2640.9	2631.8	2610.1	2554.2	2480.1	2374.1	2363.8	2184.8
22.5°	2717.3	2705.9	2708.2	2725.3	2742.4	2734.4	2691.1	2609.0	2517.7	2501.8	2293.1
25°	2718.4	2709.3	2740.1	2806.2	2842.7	2861.0	2838.2	2770.9	2674.0	2659.1	2431.1
27.5°	2737.8	2724.1	2757.2	2826.8	2937.4	2975.0	2983.0	2957.9	2874.6	2856.4	2596.4
30°	2687.6	2678.5	2728.7	2849.6	2979.6	3105.0	3150.6	3189.4	3142.6	3143.8	2851.8
32.5°	2601.0	2585.0	2661.4	2809.7	3051.4	3222.4	3343.3	3499.5	3571.4	3564.5	3296.6
35°	2435.6	2444.8	2547.4	2774.3	3053.7	3342.2	3579.3	3858.7	4053.7	4049.1	3757.2
37.5°	2318.2	2313.6	2434.5	2675.1	3052.5	3448.2	3808.5	4273.8	4525.8	4518.9	4152.9
40°	2176.8	2177.9	2298.8	2551.9	2998.9	3514.3	4045.7	4667.2	4923.7	4913.5	4531.5
42.5°	2025.1	2029.7	2142.6	2401.4	2924.8	3564.5	4257.8	5065.1	5313.7	5322.8	4834.8
45°	1889.4	1891.7	2003.5	2240.7	2793.7	3570.2	4448.2	5441.4	5683.2	5661.5	5152.9
47.5°	1689.9	1692.2	1857.5	2087.9	2620.4	3523.5	4605.6	5799.5	6020.7	5975.1	5422.0
50°	1323.9	1328.4	1524.6	1929.4	2409.4	3416.3	4729.9	6135.9	6306.9	6287.5	5698.0
52.5°	1222.4	1219.0	1301.1	1740.1	2220.1	3222.4	4808.6	6438.0	6611.4	6609.1	5926.0
55°	1171.1	1167.6	1195.0	1410.5	2034.3	2935.1	4806.3	6672.9	6863.4	6816.6	6134.7
57.5°	1079.8	1073.0	1143.7	1249.7	1826.7	2577.0	4692.3	6883.9	7045.8	7032.1	6322.9
60°	1014.9	1009.1	1057.0	1155.1	1605.5	2213.3	4399.2	6993.3	7229.4	7235.1	6481.4
62.5°	947.6	944.2	985.2	1076.4	1432.2	1947.6	3947.7	6849.7	7343.4	7312.6	6639.9
65°	871.2	868.9	907.7	981.8	1260.0	1745.8	3505.2	6593.1	7240.8	7276.1	6660.4
67.5°	780.0	778.8	816.4	867.8	1071.9	1542.8	2827.9	6290.9	6947.7	6909.0	6397.0
70°	668.2	663.6	710.4	758.3	897.4	1312.5	2200.7	5753.9	6471.1	6611.4	5872.4
72.5°	562.2	559.9	604.3	639.7	743.5	1071.9	1605.5	4976.2	6114.2	5912.4	5290.9
75°	440.1	428.7	475.5	508.6	586.1	852.9	1094.7	3323.9	5146.1	5103.9	4444.8
77.5°	177.9	206.4	246.3	275.9	327.3	483.5	572.4	1577.0	3282.9	3427.7	3091.3
80°	68.4	73.0	175.6	198.4	220.1	278.2	220.1	664.8	1295.4	1412.8	1790.2
82.5°	38.8	43.3	86.7	83.2	82.1	70.7	82.1	326.1	676.2	741.2	864.3
85°	21.7	23.9	35.3	38.8	33.1	28.5	25.1	85.5	168.8	159.6	179.0
87.5°	3.4	4.6	5.7	5.7	3.4	3.4	3.4	4.6	4.6	4.6	5.7
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°	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	1918.0	1905.4	1892.9	1878.0	1859.8	1848.4	1843.8	1849.5	1865.5	1846.1	1830.2
5°	1911.1	1894.0	1865.5	1837.0	1814.2	1794.8	1768.6	1766.3	1770.9	1762.9	1742.4
7.5°	1925.9	1900.8	1842.7	1823.3	1775.4	1729.8	1715.0	1709.3	1695.6	1679.6	1660.2
10°	1955.6	1904.3	1845.0	1788.0	1743.5	1694.5	1637.4	1638.6	1632.9	1614.6	1596.4
12.5°	1970.4	1910.0	1823.3	1762.9	1694.5	1634.0	1578.1	1553.1	1563.3	1548.5	1529.1
15°	1997.8	1933.9	1815.3	1726.4	1632.9	1564.5	1522.3	1485.8	1463.0	1466.4	1455.0
17.5°	2049.1	1955.6	1794.8	1686.5	1585.0	1504.0	1423.1	1419.7	1385.4	1366.1	1349.0
20°	2102.7	1994.4	1792.5	1643.1	1507.5	1407.1	1342.1	1305.6	1285.1	1269.1	1256.6
22.5°	2172.2	2047.9	1800.5	1618.1	1437.9	1325.0	1241.8	1192.7	1159.7	1148.3	1139.1
25°	2270.3	2115.2	1822.2	1573.6	1364.9	1234.9	1122.0	1070.7	1033.1	1024.0	1017.1
27.5°	2404.9	2200.7	1843.8	1525.7	1279.4	1108.4	988.6	938.5	896.3	895.1	882.6
30°	2616.9	2331.9	1851.8	1483.5	1188.2	972.7	852.9	806.2	774.3	761.7	770.8
32.5°	3012.6	2621.5	1902.0	1418.5	1073.0	840.4	738.9	701.3	665.9	652.2	661.4
35°	3440.2	2968.2	1986.4	1374.0	946.4	715.0	645.4	600.9	557.6	550.8	547.3
37.5°	3753.8	3284.0	2146.0	1301.1	826.7	638.6	547.3	510.8	485.8	472.1	484.6
40°	4109.6	3546.3	2266.9	1223.5	704.7	557.6	456.1	444.7	433.3	424.2	437.9
42.5°	4391.2	3816.5	2410.6	1120.9	606.6	473.2	405.9	415.1	420.8	416.2	417.3
45°	4650.1	4017.2	2419.7	964.7	517.7	410.5	391.1	409.4	423.0	420.8	419.6
47.5°	4903.2	4256.7	2441.3	799.3	453.8	394.5	392.3	405.9	424.2	427.6	427.6
50°	5164.3	4439.1	2408.3	643.1	429.9	396.8	395.7	394.5	417.3	418.5	421.9
52.5°	5360.5	4587.4	2252.1	531.4	428.7	403.7	401.4	390.0	400.2	408.2	402.5
55°	5568.0	4772.1	2054.8	489.2	426.5	405.9	415.1	395.7	388.8	382.0	388.8
57.5°	5765.3	4900.9	1795.9	464.1	417.3	402.5	420.8	394.5	379.7	360.3	353.5
60°	5916.9	4930.6	1507.5	437.9	405.9	394.5	395.7	386.6	367.2	343.2	333.0
62.5°	5968.2	4947.7	1268.0	412.8	383.1	382.0	372.9	369.5	361.5	346.6	342.1
65°	5924.9	4753.8	1012.6	382.0	363.7	364.9	351.2	339.8	321.6	297.6	295.3
67.5°	5627.3	4412.9	776.5	343.2	334.1	345.5	330.7	311.3	290.8	274.8	277.1
70°	5117.6	4009.2	545.1	289.6	299.9	320.4	314.7	289.6	266.8	253.1	255.4
72.5°	4550.9	3396.9	370.6	225.8	244.0	287.4	287.4	270.2	247.4	229.2	224.6
75°	3589.6	2668.3	239.5	149.4	160.8	234.9	254.3	228.1	203.0	191.6	187.0
77.5°	2436.8	1737.8	152.8	85.5	107.2	153.9	200.7	204.1	240.6	241.7	231.5
80°	1432.2	994.3	93.5	50.2	53.6	88.9	160.8	201.8	255.4	180.2	165.3
82.5°	712.7	424.2	42.2	30.8	31.9	44.5	86.7	231.5	197.3	112.9	108.3
85°	158.5	69.6	17.1	16.0	18.2	22.8	44.5	191.6	120.9	91.2	88.9
87.5°	5.7	4.6	4.6	4.6	3.4	3.4	9.1	62.7	47.9	39.9	37.6
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)