

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: P509249

Luminaire Tested: **VERD-CA2-60-722-U-T4**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509249  
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-CA2-60-722-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 850mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7561 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

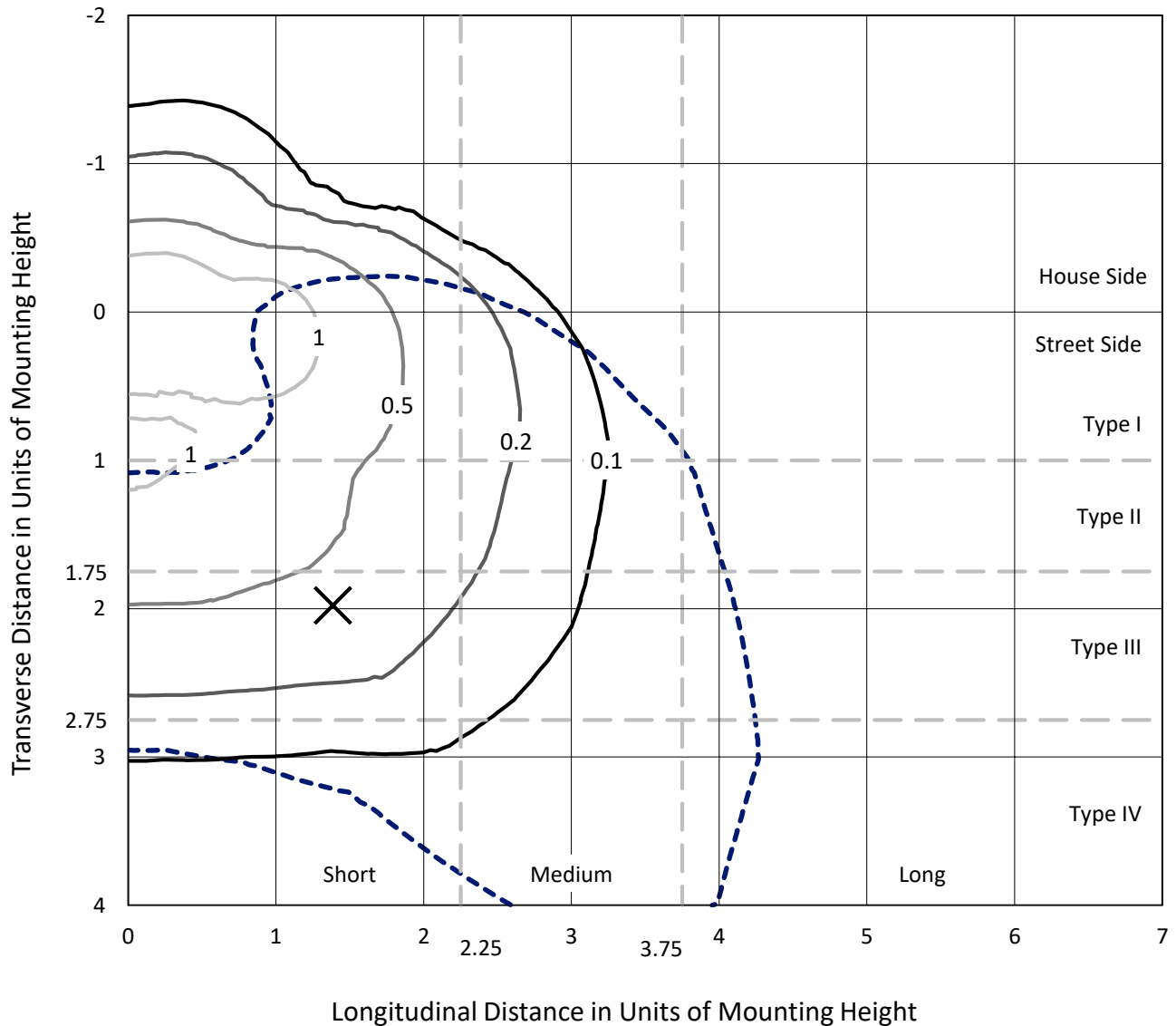
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

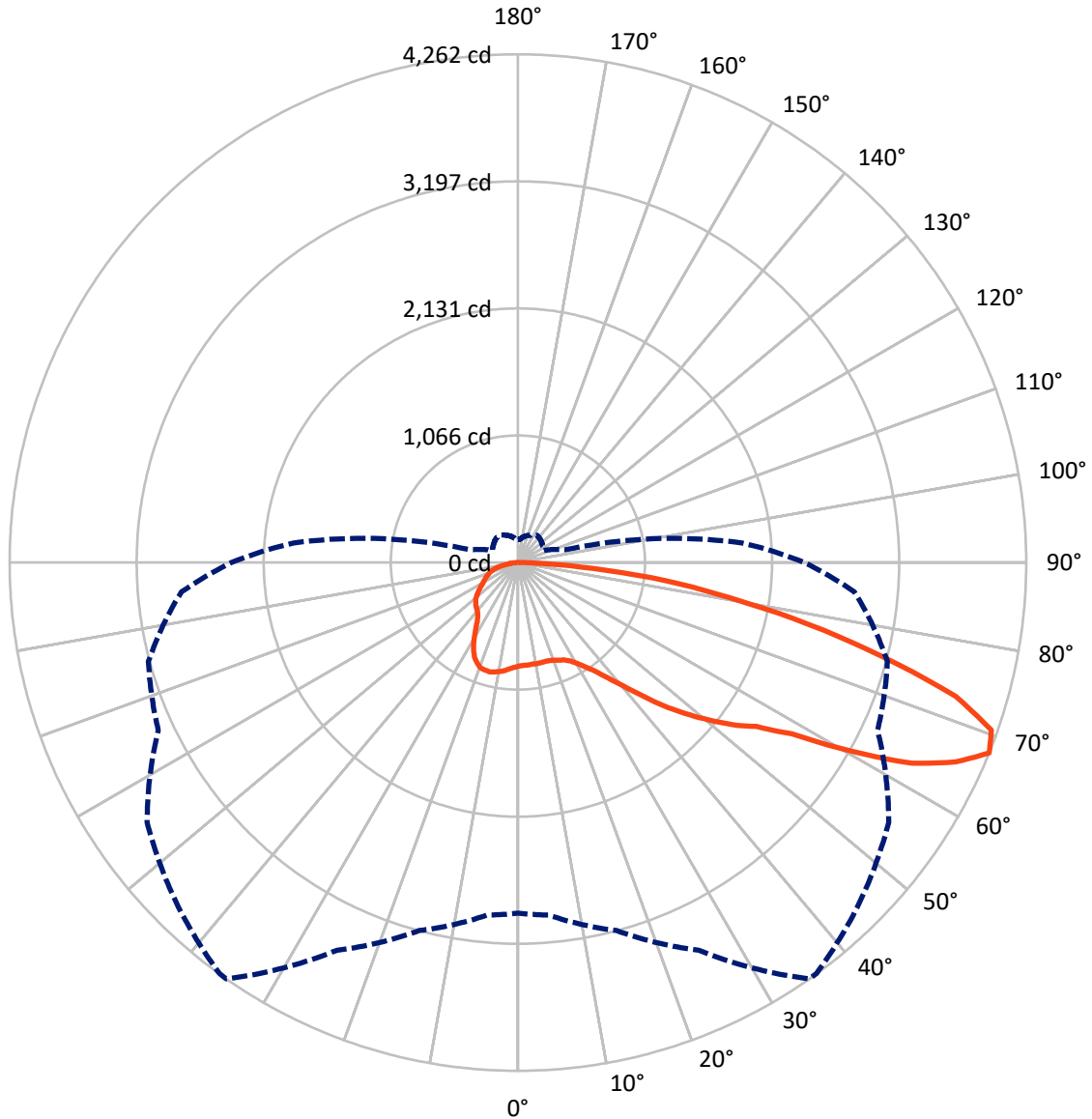
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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
<b>House Side</b>	Lumens	1722.6	0.0	1722.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	5838.4	0.0	5838.4
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	7561.0	0.0	7561.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	1.1
10°-20°	257.9	3.4
20°-30°	430.5	5.7
30°-40°	662.3	8.8
40°-50°	1091.4	14.4
50°-60°	1558.9	20.6
60°-70°	1940.9	25.7
70°-80°	1309.8	17.3
80°-90°	225.1	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°	7561.0	100.0
0°-180°	7561.0	100.0

**Coefficient of Utilization**



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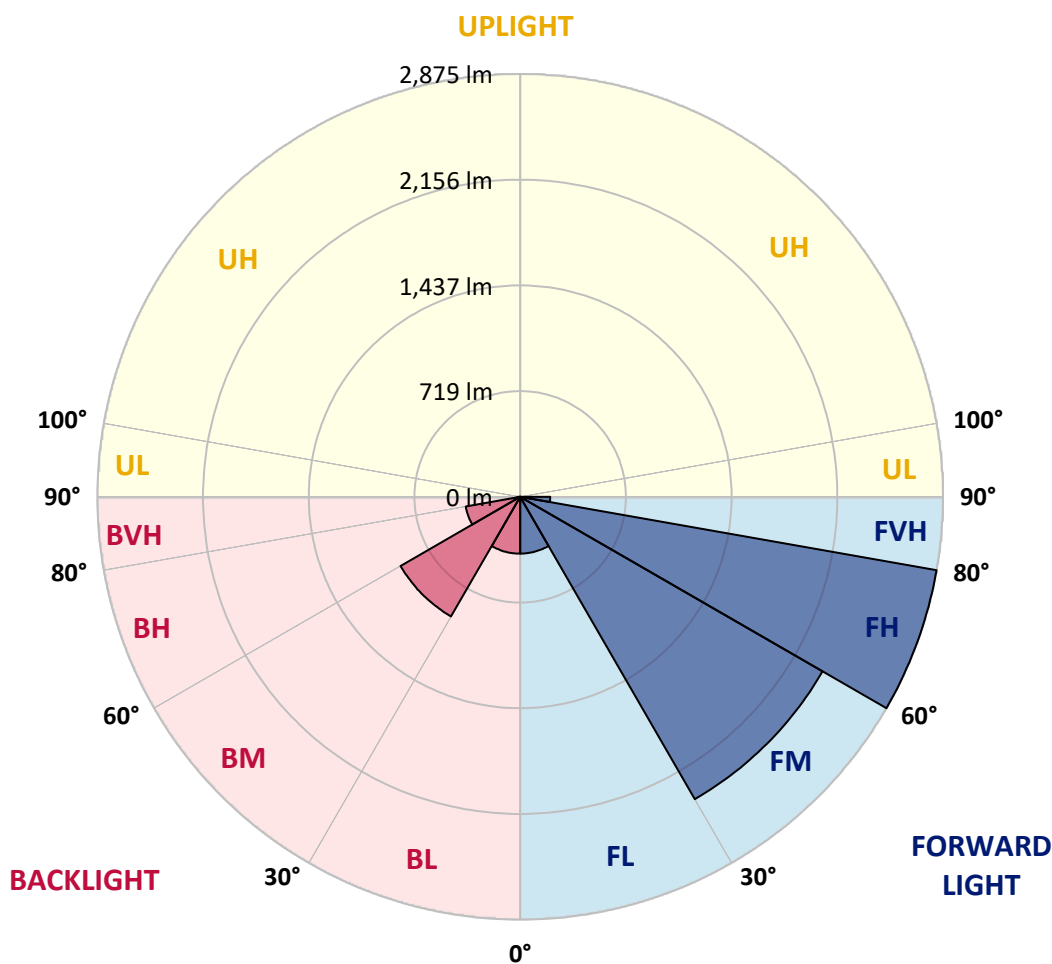
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.8	5.1			
FM	(30°-60°)	2373.5	31.4			
FH	(60°-80°)	2874.7	38.0			G2/5000
FVH	(80°-90°)	204.4	2.7			G2/225
BL	(0°-30°)	386.6	5.1	B1/500		
BM	(30°-60°)	939.2	12.4	B1/1000		
BH	(60°-80°)	376.0	5.0	B1/500		G1/500
BVH	(80°-90°)	20.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9
2.5°	856.6	864.8	864.0	862.3	863.2	864.0	859.9	857.4	860.7	861.5	865.6
5°	855.8	862.3	861.5	861.5	864.0	863.2	856.6	851.7	857.4	861.5	865.6
7.5°	855.0	860.7	860.7	858.3	859.9	859.9	856.6	859.9	859.9	866.4	871.3
10°	854.2	859.1	859.1	859.9	862.3	863.2	863.2	865.6	874.6	877.0	886.8
12.5°	844.4	848.5	851.7	856.6	861.5	863.2	867.2	874.6	886.0	891.7	903.1
15°	836.3	842.0	847.7	852.6	859.9	861.5	870.5	882.7	894.9	907.2	924.3
17.5°	839.5	846.8	853.4	857.4	863.2	864.8	873.7	890.0	909.6	927.5	951.2
20°	846.8	855.0	861.5	866.4	873.7	875.4	882.7	898.2	923.5	951.2	978.1
22.5°	864.8	870.5	877.8	880.3	888.4	890.0	894.9	910.4	943.0	978.1	1012.3
25°	881.1	887.6	893.3	895.8	904.7	906.3	915.3	928.4	966.7	1006.6	1056.3
27.5°	902.3	908.8	916.1	918.6	934.1	935.7	939.8	959.3	997.6	1044.1	1106.0
30°	943.0	947.1	955.3	965.0	980.5	982.1	991.1	1011.5	1039.2	1096.3	1178.6
32.5°	1005.0	1010.7	1007.4	1020.5	1043.3	1043.3	1074.3	1108.5	1142.7	1182.7	1291.9
35°	1124.0	1120.7	1117.4	1106.0	1119.9	1124.8	1168.0	1225.9	1321.2	1433.7	1541.3
37.5°	1271.5	1270.7	1253.6	1227.5	1226.7	1228.3	1267.4	1365.2	1516.8	1767.1	1882.8
40°	1498.1	1504.6	1444.3	1390.5	1360.3	1353.8	1384.8	1507.9	1711.6	2045.0	2124.1
42.5°	1724.7	1710.8	1661.9	1574.7	1524.2	1520.1	1525.8	1633.4	1900.7	2269.9	2298.5
45°	1925.2	1935.8	1859.2	1806.2	1713.3	1714.9	1689.6	1788.2	2088.2	2428.9	2433.8
47.5°	2129.8	2137.9	2042.5	1982.2	1893.4	1893.4	1853.5	1931.7	2255.3	2580.5	2570.7
50°	2348.2	2366.9	2247.1	2155.8	2074.3	2071.1	2058.8	2107.7	2419.9	2708.5	2669.3
52.5°	2643.2	2578.9	2465.6	2341.7	2261.0	2251.2	2239.8	2274.8	2609.0	2812.8	2732.9
55°	2948.1	2860.9	2745.1	2578.9	2426.4	2440.3	2411.8	2451.7	2782.6	2937.5	2816.0
57.5°	3133.1	3165.7	3102.9	2960.3	2709.3	2706.8	2599.2	2620.4	2938.3	3042.6	2904.1
60°	3327.9	3373.5	3415.9	3331.2	3212.2	3158.4	2882.1	2799.7	3113.5	3119.2	2894.3
62.5°	3429.8	3420.8	3605.0	3614.8	3706.9	3713.4	3443.6	3032.0	3217.0	3183.6	2928.5
65°	3248.0	3252.9	3556.1	3714.2	4031.3	4050.0	3951.4	3440.4	3304.3	3213.8	2889.4
67.5°	2939.9	2967.6	3195.0	3586.3	4262.0	4258.7	4045.2	3795.7	3327.1	3207.3	2832.3
70°	2404.4	2433.8	2666.9	3235.0	4211.4	4184.5	4005.2	3824.3	3307.5	3148.6	2547.9
72.5°	1844.5	1840.4	2081.7	2583.7	3839.8	3865.8	3800.6	3622.9	3213.8	2897.5	2087.4
75°	1300.0	1279.6	1494.0	1958.6	3166.5	3262.7	3485.2	3436.3	2859.2	2384.9	1395.4
77.5°	853.4	884.3	1055.5	1448.4	2490.0	2570.7	2878.0	2781.0	2115.9	1521.7	503.7
80°	542.0	569.7	708.3	1034.3	1810.3	1846.9	2098.0	1768.7	1130.5	502.1	70.1
82.5°	329.3	333.4	456.4	699.3	1248.7	1248.7	1321.2	988.7	442.6	65.2	45.6
85°	175.2	185.0	246.1	377.4	629.2	676.5	599.1	377.4	85.6	35.9	27.7
87.5°	55.4	56.2	80.7	145.9	135.3	139.4	46.5	19.6	9.8	6.5	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°	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9	868.9
2.5°	867.2	868.0	872.9	875.4	876.2	873.7	879.5	887.6	885.2	894.1	890.9
5°	867.2	871.3	877.8	877.0	883.5	886.8	893.3	901.5	899.0	912.1	907.2
7.5°	873.7	880.3	885.2	894.9	899.8	898.2	912.9	919.4	916.1	925.9	921.0
10°	890.0	897.4	903.9	914.5	921.8	918.6	926.7	930.8	925.1	934.9	932.4
12.5°	908.8	916.9	930.0	937.3	943.0	937.3	937.3	934.9	926.7	935.7	930.0
15°	930.0	940.6	958.5	966.7	965.0	955.3	946.3	929.2	907.2	911.2	903.1
17.5°	958.5	971.6	991.9	996.8	990.3	966.7	943.0	912.1	872.9	863.2	856.6
20°	989.5	1004.2	1032.7	1030.2	1015.6	974.0	936.5	888.4	827.3	799.6	786.5
22.5°	1031.9	1046.5	1073.4	1058.8	1028.6	974.0	910.4	843.6	771.0	730.3	721.3
25°	1078.3	1098.7	1110.1	1077.5	1025.3	952.0	875.4	787.3	694.4	650.4	641.5
27.5°	1135.4	1149.2	1137.8	1080.0	1009.0	915.3	818.3	712.4	623.5	586.0	573.0
30°	1202.2	1203.8	1159.0	1075.1	972.4	863.2	748.2	636.6	568.1	533.1	524.9
32.5°	1291.1	1274.8	1177.8	1052.2	922.6	791.4	670.0	586.0	529.0	485.0	473.6
35°	1522.5	1448.4	1219.3	1026.2	862.3	711.5	602.3	540.4	492.3	442.6	433.6
37.5°	1822.5	1691.3	1292.7	999.3	793.9	638.2	557.5	513.5	472.7	417.3	405.1
40°	2047.4	1895.8	1406.0	969.9	731.1	586.0	533.1	502.9	458.1	407.5	394.5
42.5°	2219.4	2066.2	1522.5	937.3	672.4	545.3	515.9	495.6	452.4	405.1	394.5
45°	2338.4	2185.2	1622.8	899.0	597.4	510.2	502.9	483.3	441.8	396.1	385.5
47.5°	2459.0	2269.1	1679.0	859.1	534.7	490.7	484.1	462.1	423.8	380.6	372.5
50°	2564.2	2364.5	1727.1	818.3	485.0	467.0	463.0	433.6	396.9	356.2	345.6
52.5°	2594.3	2387.3	1707.6	815.9	440.1	441.8	433.6	410.0	375.7	331.7	321.1
55°	2662.8	2450.9	1660.3	740.9	396.9	402.6	401.0	388.8	357.0	316.2	308.1
57.5°	2692.1	2402.8	1591.8	551.0	352.1	357.0	370.9	370.9	343.1	306.5	299.1
60°	2688.1	2404.4	1469.6	385.5	308.1	321.1	340.7	340.7	318.7	282.8	273.9
62.5°	2657.1	2342.5	1266.6	294.2	280.4	299.1	321.9	307.3	287.7	247.8	241.3
65°	2605.8	2172.1	877.8	258.4	264.9	286.9	298.3	280.4	256.7	220.9	216.8
67.5°	2400.4	1886.9	408.3	236.4	251.9	269.0	278.8	253.5	229.0	196.4	191.5
70°	2043.4	1380.7	176.1	219.3	236.4	248.6	258.4	232.3	206.2	177.7	176.1
72.5°	1485.9	736.8	146.7	192.4	210.3	223.3	235.6	209.5	184.2	150.8	150.8
75°	715.6	122.3	126.3	159.8	176.1	202.1	207.8	171.2	142.6	114.9	112.5
77.5°	88.0	79.1	109.2	127.1	141.0	154.9	168.7	148.3	123.1	94.5	89.7
80°	55.4	55.4	86.4	88.8	96.2	110.8	123.9	115.7	97.0	54.6	50.5
82.5°	40.8	44.0	57.1	42.4	50.5	63.6	72.5	82.3	70.1	38.3	35.9
85°	26.1	28.5	26.9	21.2	27.7	42.4	57.9	57.1	47.3	28.5	26.9
87.5°	5.7	5.7	5.7	4.9	5.7	7.3	13.9	26.9	19.6	15.5	14.7
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)