

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: P509365

Luminaire Tested: **VERD-CA2-80-740-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509365  
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-CA2-80-740-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11550 lumens  
Efficiency: N/A  
Efficacy: 140.2 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

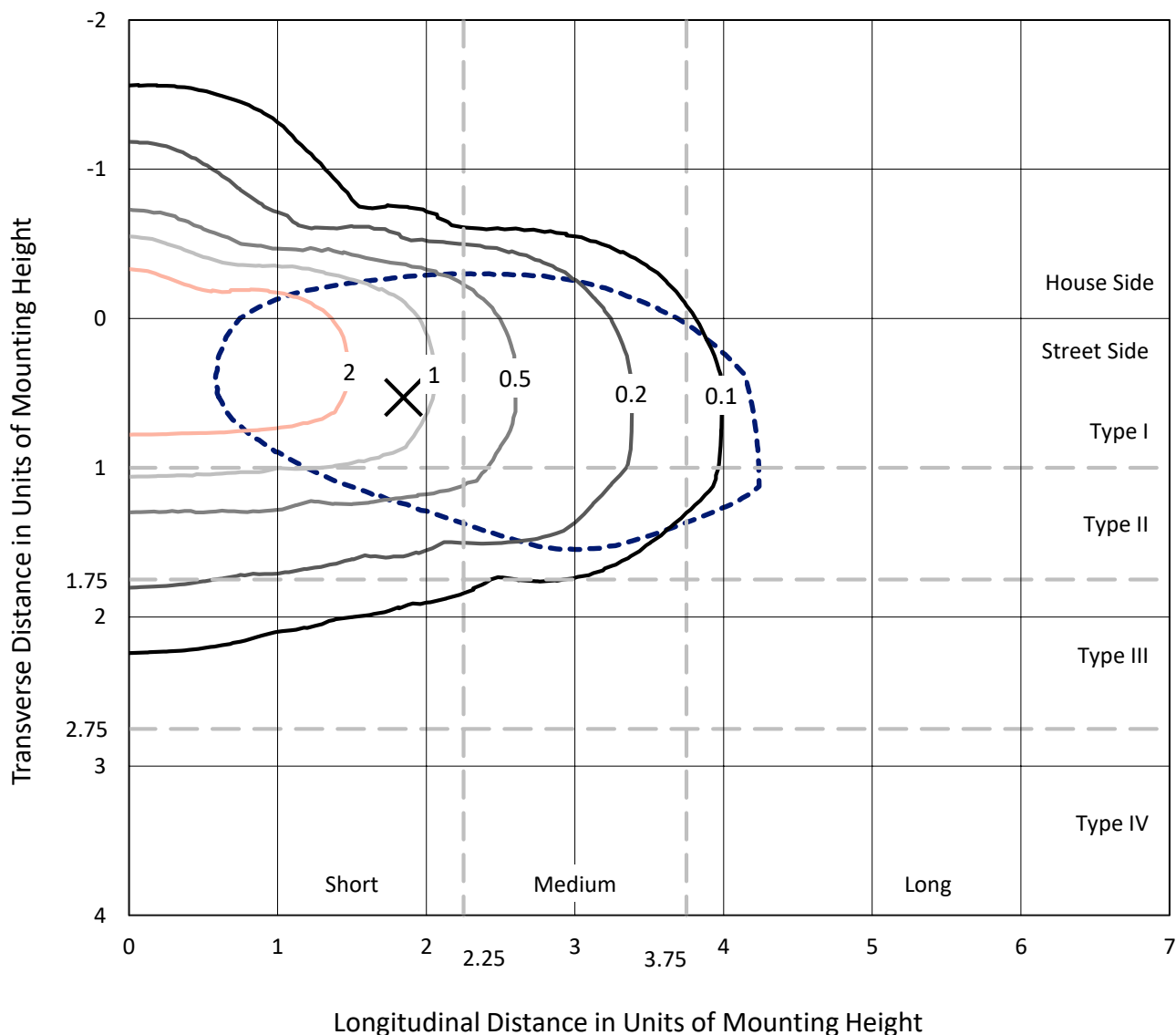
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

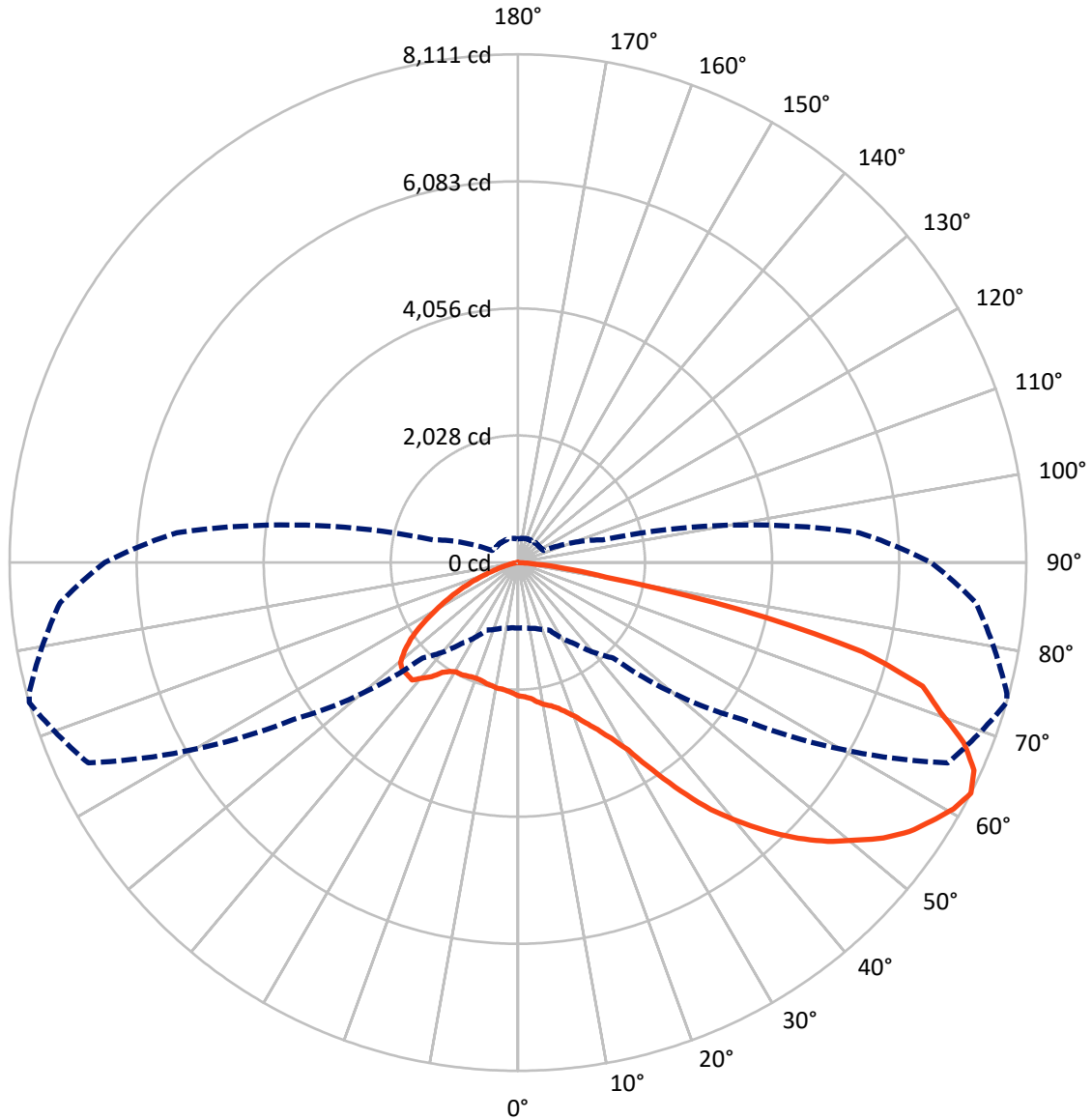
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2982.3	0.0	2982.3
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	8567.7	0.0	8567.7
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	11550.0	0.0	11550.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.7	1.8
10°-20°	623.9	5.4
20°-30°	1052.1	9.1
30°-40°	1537.2	13.3
40°-50°	2046.8	17.7
50°-60°	2355.5	20.4
60°-70°	2276.2	19.7
70°-80°	1310.3	11.3
80°-90°	143.4	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°	11550.0	100.0
0°-180°	11550.0	100.0

**Coefficient of Utilization**



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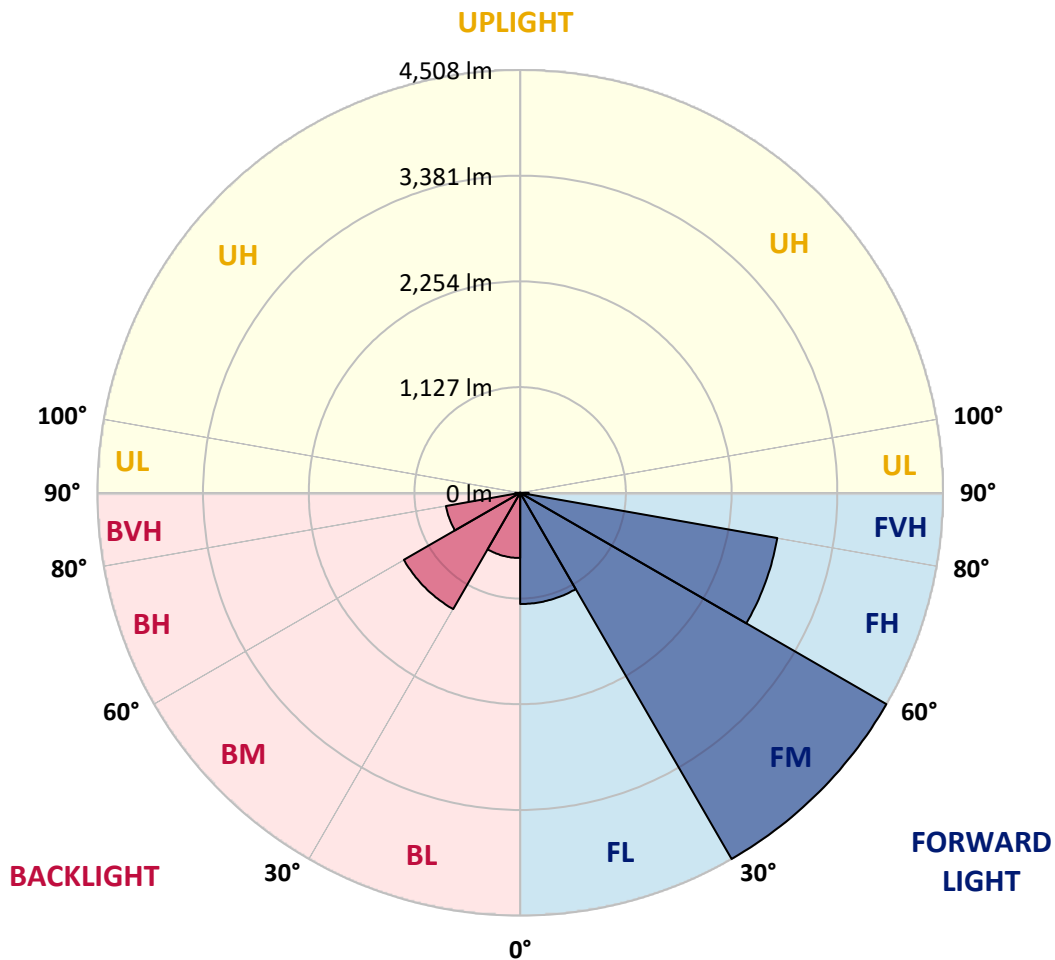
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.4	10.3			
FM (30°-60°)	4508.0	39.0			
FH (60°-80°)	2783.6	24.1			G2/5000
FVH (80°-90°)	90.7	0.8			G1/100
BL (0°-30°)	695.3	6.0	B2/1000		
BM (30°-60°)	1431.5	12.4	B2/2500		
BH (60°-80°)	802.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	52.7	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°	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8
2.5°	2279.6	2263.3	2253.2	2241.9	2228.0	2223.0	2192.7	2166.3	2144.9	2146.1	2132.3
5°	2362.8	2345.1	2322.5	2318.7	2301.0	2297.3	2268.3	2226.7	2180.1	2173.8	2132.3
7.5°	2456.0	2445.9	2432.0	2414.4	2385.4	2366.5	2325.0	2292.2	2244.4	2238.1	2156.2
10°	2569.3	2561.8	2551.7	2551.7	2513.9	2473.6	2423.2	2341.3	2303.6	2297.3	2197.8
12.5°	2702.8	2680.1	2647.4	2628.5	2593.2	2568.1	2513.9	2427.0	2345.1	2342.6	2236.8
15°	2789.7	2770.8	2749.4	2741.9	2696.5	2655.0	2597.0	2527.8	2413.1	2404.3	2284.7
17.5°	2886.7	2869.1	2843.9	2830.0	2801.1	2753.2	2701.6	2610.9	2508.9	2500.0	2338.8
20°	2940.9	2922.0	2914.4	2916.9	2906.9	2882.9	2821.2	2739.3	2622.2	2610.9	2413.1
22.5°	3001.3	2988.7	2991.2	3010.1	3029.0	3020.2	2972.3	2881.7	2780.9	2763.3	2532.8
25°	3002.6	2992.5	3026.5	3099.5	3139.9	3160.0	3134.8	3060.5	2953.5	2937.1	2685.2
27.5°	3024.0	3008.9	3045.4	3122.2	3244.4	3286.0	3294.8	3267.1	3175.1	3155.0	2867.8
30°	2968.6	2958.5	3013.9	3147.4	3291.0	3429.5	3479.9	3522.7	3471.1	3472.4	3149.9
32.5°	2872.8	2855.2	2939.6	3103.3	3370.3	3559.3	3692.8	3865.3	3944.7	3937.1	3641.1
35°	2690.2	2700.3	2813.7	3064.3	3372.9	3691.5	3953.5	4262.0	4477.4	4472.4	4149.9
37.5°	2560.5	2555.5	2689.0	2954.7	3371.6	3808.6	4206.6	4720.5	4998.8	4991.3	4587.0
40°	2404.3	2405.6	2539.1	2818.7	3312.4	3881.7	4468.6	5155.0	5438.4	5427.0	5005.1
42.5°	2236.8	2241.9	2366.5	2652.4	3230.5	3937.1	4702.9	5594.6	5869.1	5879.2	5340.1
45°	2086.9	2089.5	2212.9	2474.9	3085.7	3943.4	4913.2	6010.2	6277.2	6253.3	5691.5
47.5°	1866.5	1869.0	2051.7	2306.1	2894.3	3891.8	5087.0	6405.7	6650.0	6599.6	5988.8
50°	1462.2	1467.3	1683.9	2131.0	2661.3	3773.4	5224.3	6777.2	6966.1	6944.7	6293.6
52.5°	1350.1	1346.4	1437.1	1921.9	2452.2	3559.3	5311.2	7111.0	7302.4	7299.9	6545.5
55°	1293.5	1289.7	1319.9	1558.0	2246.9	3241.9	5308.7	7370.4	7580.7	7529.1	6775.9
57.5°	1192.7	1185.2	1263.2	1380.4	2017.7	2846.4	5182.7	7603.4	7782.2	7767.1	6983.7
60°	1120.9	1114.6	1167.5	1275.8	1773.3	2444.6	4859.0	7724.3	7985.0	7991.3	7158.8
62.5°	1046.6	1042.8	1088.2	1188.9	1581.9	2151.2	4360.3	7565.6	8111.0	8077.0	7333.9
65°	962.2	959.7	1002.5	1084.4	1391.7	1928.2	3871.6	7282.2	7997.6	8036.7	7356.5
67.5°	861.5	860.2	901.8	958.5	1183.9	1704.1	3123.5	6948.5	7673.9	7631.1	7065.6
70°	738.0	733.0	784.6	837.5	991.2	1449.6	2430.8	6355.3	7147.5	7302.4	6486.3
72.5°	620.9	618.4	667.5	706.6	821.2	1183.9	1773.3	5496.3	6753.3	6530.3	5843.9
75°	486.2	473.6	525.2	561.7	647.4	942.1	1209.1	3671.3	5684.0	5637.4	4909.4
77.5°	196.5	228.0	272.0	304.8	361.5	534.0	632.3	1741.8	3626.0	3786.0	3414.4
80°	75.6	80.6	194.0	219.1	243.1	307.3	243.1	734.3	1430.8	1560.5	1977.4
82.5°	42.8	47.9	95.7	91.9	90.7	78.1	90.7	360.2	746.9	818.7	954.7
85°	23.9	26.4	39.0	42.8	36.5	31.5	27.7	94.5	186.4	176.3	197.7
87.5°	3.8	5.0	6.3	6.3	3.8	3.8	3.8	5.0	5.0	5.0	6.3
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°	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8	2129.8
2.5°	2118.4	2104.6	2090.7	2074.3	2054.2	2041.6	2036.6	2042.9	2060.5	2039.1	2021.4
5°	2110.9	2092.0	2060.5	2029.0	2003.8	1982.4	1953.4	1950.9	1956.0	1947.1	1924.5
7.5°	2127.2	2099.5	2035.3	2013.9	1961.0	1910.6	1894.2	1887.9	1872.8	1855.2	1833.8
10°	2160.0	2103.3	2037.8	1974.8	1925.7	1871.6	1808.6	1809.9	1803.6	1783.4	1763.3
12.5°	2176.4	2109.6	2013.9	1947.1	1871.6	1804.8	1743.1	1715.4	1726.7	1710.4	1688.9
15°	2206.6	2136.1	2005.1	1906.8	1803.6	1728.0	1681.4	1641.1	1615.9	1619.7	1607.1
17.5°	2263.3	2160.0	1982.4	1862.8	1750.7	1661.2	1571.8	1568.0	1530.3	1508.8	1489.9
20°	2322.5	2202.8	1979.9	1814.9	1665.0	1554.2	1482.4	1442.1	1419.4	1401.8	1387.9
22.5°	2399.3	2262.0	1988.7	1787.2	1588.2	1463.5	1371.6	1317.4	1280.9	1268.3	1258.2
25°	2507.6	2336.3	2012.6	1738.1	1507.6	1364.0	1239.3	1182.6	1141.1	1131.0	1123.4
27.5°	2656.2	2430.8	2036.6	1685.2	1413.1	1224.2	1092.0	1036.5	989.9	988.7	974.8
30°	2890.5	2575.6	2045.4	1638.6	1312.4	1074.3	942.1	890.4	855.2	841.3	851.4
32.5°	3327.5	2895.5	2100.8	1566.8	1185.2	928.2	816.1	774.6	735.5	720.4	730.5
35°	3799.8	3278.4	2194.0	1517.7	1045.4	789.7	712.9	663.7	615.9	608.3	604.5
37.5°	4146.2	3627.3	2370.3	1437.1	913.1	705.3	604.5	564.2	536.5	521.4	535.3
40°	4539.1	3916.9	2503.8	1351.4	778.4	615.9	503.8	491.2	478.6	468.5	483.6
42.5°	4850.2	4215.4	2662.5	1238.1	670.0	522.7	448.4	458.4	464.7	459.7	461.0
45°	5136.1	4437.1	2672.6	1065.5	571.8	453.4	432.0	452.1	467.3	464.7	463.5
47.5°	5415.7	4701.6	2696.5	882.9	501.3	435.8	433.3	448.4	468.5	472.3	472.3
50°	5704.1	4903.1	2660.0	710.3	474.8	438.3	437.0	435.8	461.0	462.2	466.0
52.5°	5920.8	5066.8	2487.4	586.9	473.6	445.9	443.3	430.7	442.1	450.9	444.6
55°	6150.0	5270.9	2269.6	540.3	471.0	448.4	458.4	437.0	429.5	421.9	429.5
57.5°	6367.9	5413.2	1983.7	512.6	461.0	444.6	464.7	435.8	419.4	398.0	390.4
60°	6535.4	5445.9	1665.0	483.6	448.4	435.8	437.0	427.0	405.5	379.1	367.8
62.5°	6592.1	5464.8	1400.5	455.9	423.2	421.9	411.8	408.1	399.3	382.9	377.8
65°	6544.2	5250.7	1118.4	421.9	401.8	403.0	387.9	375.3	355.2	328.7	326.2
67.5°	6215.5	4874.1	857.7	379.1	369.0	381.6	365.2	343.8	321.2	303.5	306.1
70°	5652.5	4428.3	602.0	319.9	331.2	353.9	347.6	319.9	294.7	279.6	282.1
72.5°	5026.5	3752.0	409.3	249.4	269.5	317.4	317.4	298.5	273.3	253.2	248.1
75°	3964.8	2947.2	264.5	165.0	177.6	259.5	280.9	251.9	224.2	211.6	206.6
77.5°	2691.5	1919.4	168.8	94.5	118.4	170.0	221.7	225.4	265.7	267.0	255.7
80°	1581.9	1098.3	103.3	55.4	59.2	98.2	177.6	222.9	282.1	199.0	182.6
82.5°	787.2	468.5	46.6	34.0	35.3	49.1	95.7	255.7	217.9	124.7	119.6
85°	175.1	76.8	18.9	17.6	20.2	25.2	49.1	211.6	133.5	100.8	98.2
87.5°	6.3	5.0	5.0	5.0	3.8	3.8	10.1	69.3	52.9	44.1	41.6
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)