

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: P509061

Luminaire Tested: **VERD-CA2-100-727-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509061  
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-CA2-100-727-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11738 lumens  
Efficiency: N/A  
Efficacy: 113.5 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

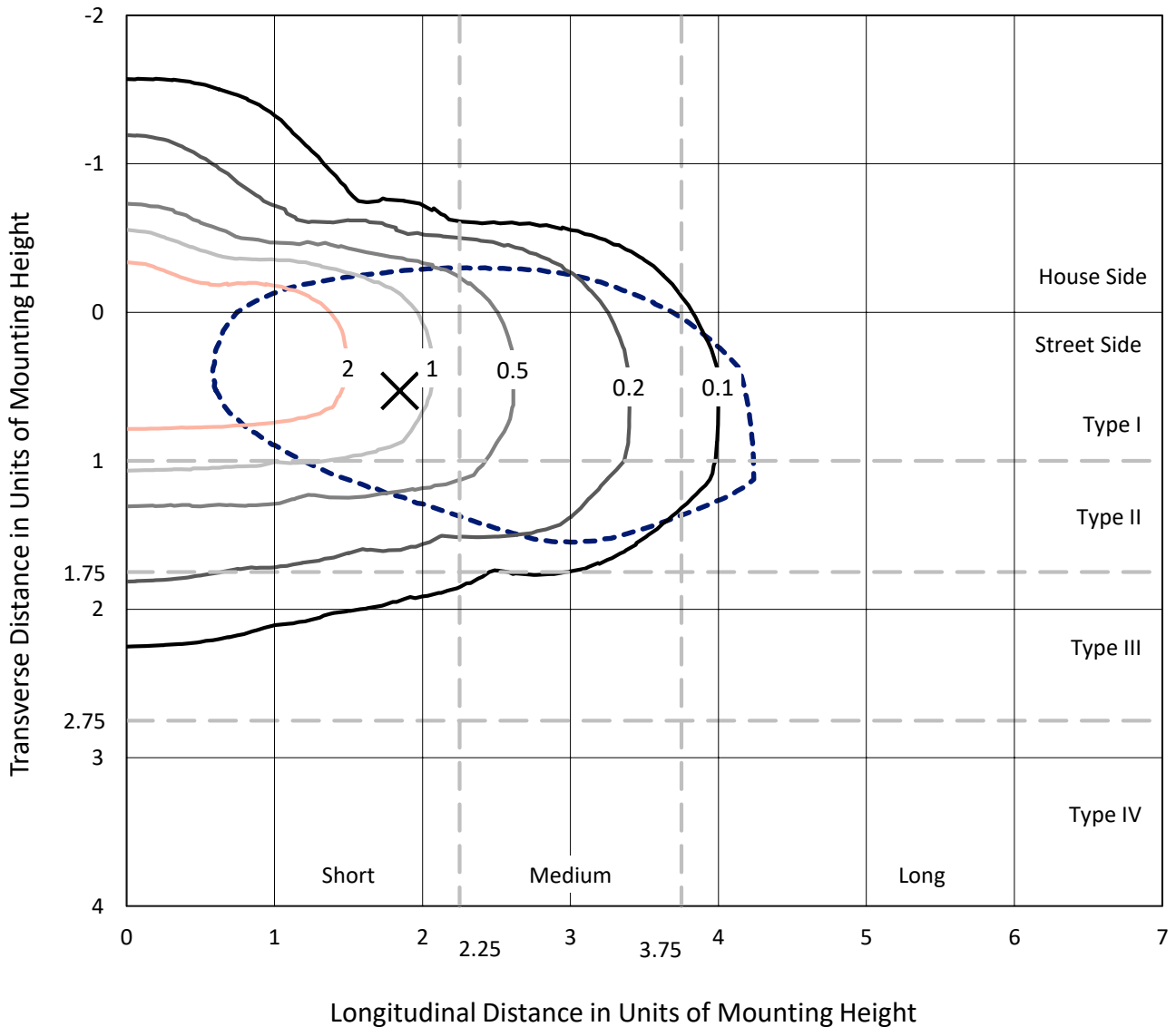
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

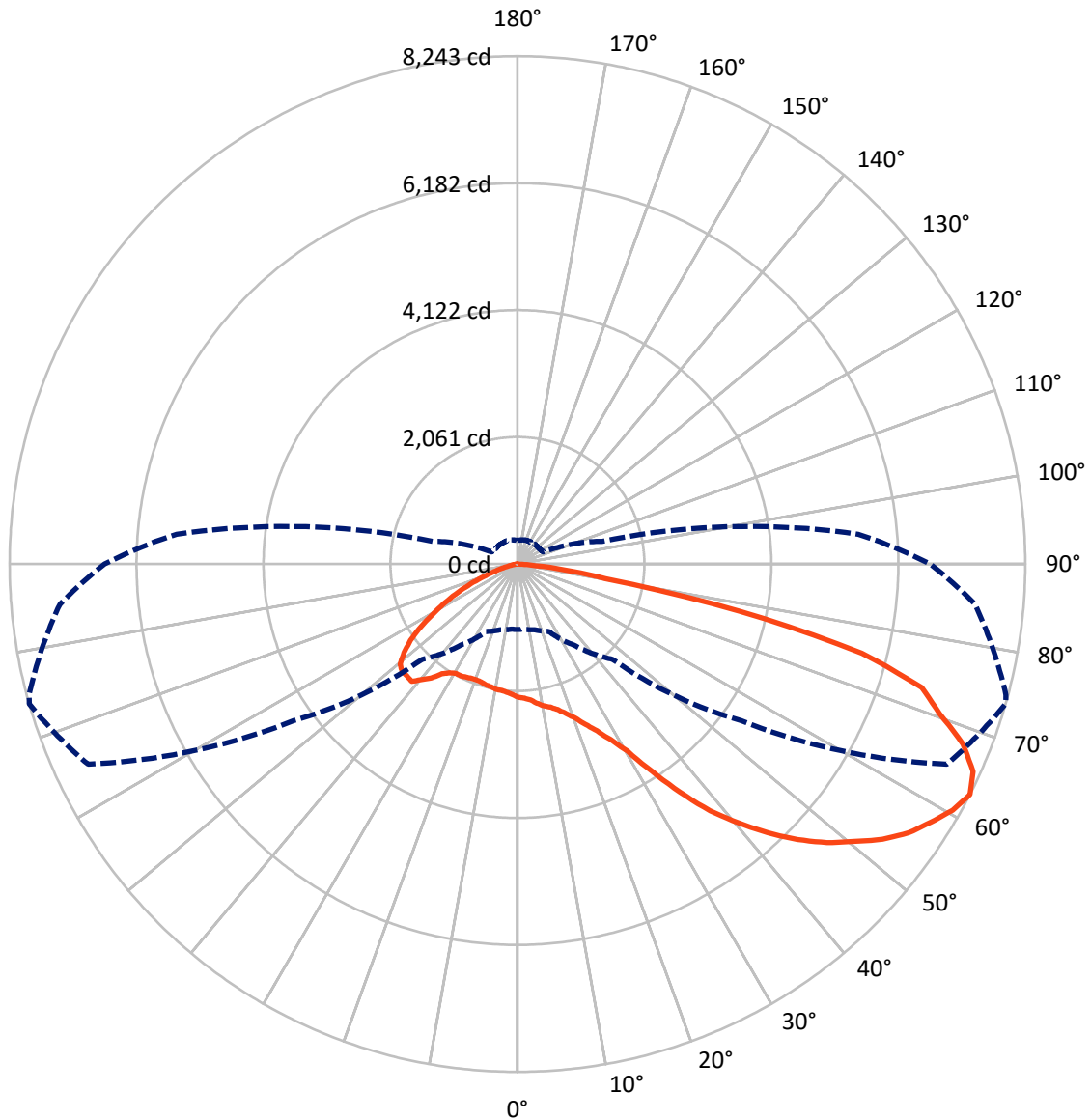
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	3030.8	0.0	3030.8
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	8707.2	0.0	8707.2
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	11738.0	0.0	11738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	1.8
10°-20°	634.1	5.4
20°-30°	1069.2	9.1
30°-40°	1562.2	13.3
40°-50°	2080.1	17.7
50°-60°	2393.8	20.4
60°-70°	2313.2	19.7
70°-80°	1331.7	11.3
80°-90°	145.7	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°	11738.0	100.0
0°-180°	11738.0	100.0

**Coefficient of Utilization**



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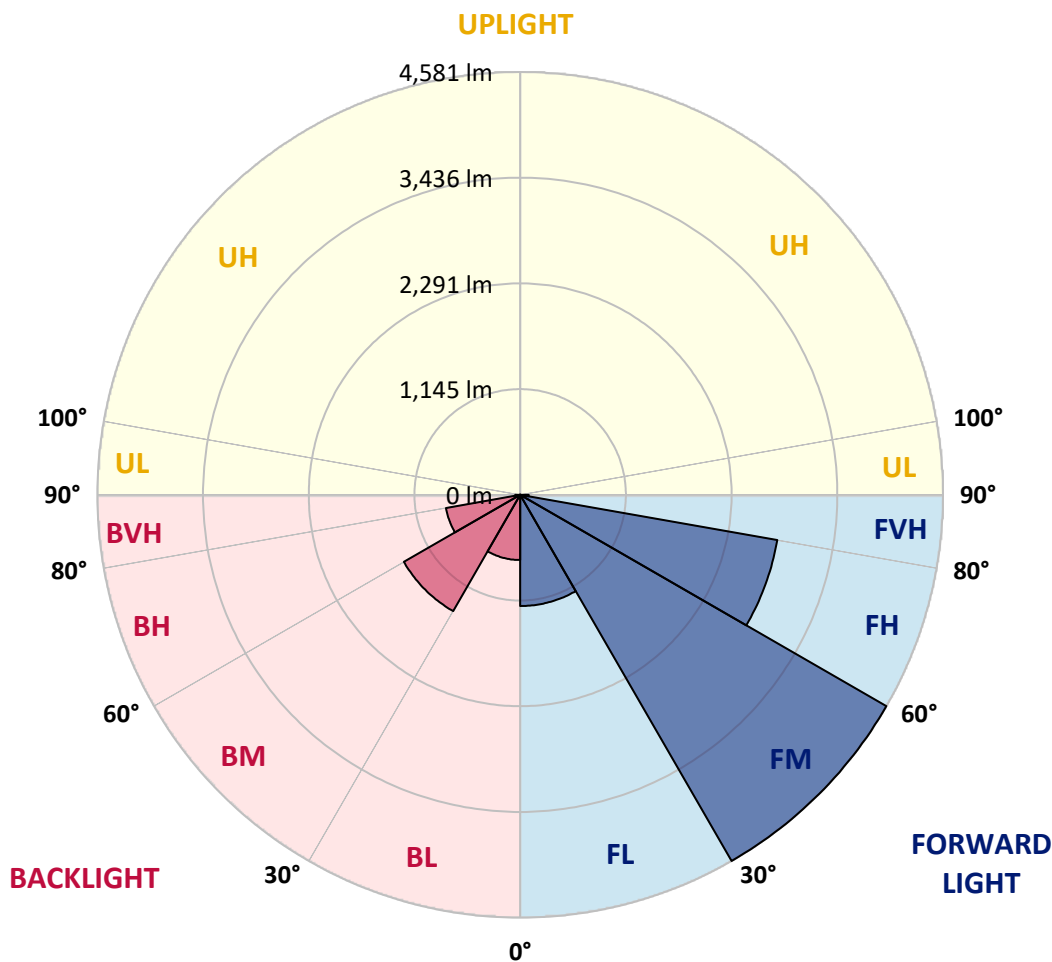
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.7	10.3			
FM (30°-60°)	4581.4	39.0			
FH (60°-80°)	2829.0	24.1			G2/5000
FVH (80°-90°)	92.1	0.8			G1/100
BL (0°-30°)	706.6	6.0	B2/1000		
BM (30°-60°)	1454.8	12.4	B2/2500		
BH (60°-80°)	815.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	53.5	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°	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4
2.5°	2316.7	2300.1	2289.9	2278.3	2264.3	2259.1	2228.4	2201.5	2179.8	2181.1	2167.0
5°	2401.2	2383.3	2360.3	2356.4	2338.5	2334.7	2305.2	2263.0	2215.6	2209.2	2167.0
7.5°	2495.9	2485.7	2471.6	2453.7	2424.3	2405.1	2362.8	2329.5	2280.9	2274.5	2191.3
10°	2611.1	2603.5	2593.2	2593.2	2554.8	2513.9	2462.7	2379.5	2341.1	2334.7	2233.5
12.5°	2746.8	2723.8	2690.5	2671.3	2635.5	2609.9	2554.8	2466.5	2383.3	2380.7	2273.2
15°	2835.1	2815.9	2794.2	2786.5	2740.4	2698.2	2639.3	2568.9	2452.4	2443.5	2321.9
17.5°	2933.7	2915.8	2890.2	2876.1	2846.6	2798.0	2745.5	2653.4	2549.7	2540.7	2376.9
20°	2988.7	2969.5	2961.8	2964.4	2954.2	2929.8	2867.1	2783.9	2664.9	2653.4	2452.4
22.5°	3050.2	3037.4	3039.9	3059.1	3078.3	3069.4	3020.7	2928.6	2826.2	2808.2	2574.0
25°	3051.4	3041.2	3075.8	3150.0	3191.0	3211.4	3185.8	3110.3	3001.5	2984.9	2728.9
27.5°	3073.2	3057.8	3095.0	3173.0	3297.2	3339.4	3348.4	3320.2	3226.8	3206.3	2914.5
30°	3016.9	3006.6	3063.0	3198.6	3344.6	3485.4	3536.6	3580.1	3527.6	3528.9	3201.2
32.5°	2919.6	2901.7	2987.4	3153.8	3425.2	3617.2	3752.9	3928.2	4008.9	4001.2	3700.4
35°	2734.0	2744.3	2859.4	3114.2	3427.8	3751.6	4017.8	4331.4	4550.3	4545.2	4217.5
37.5°	2602.2	2597.1	2732.7	3002.8	3426.5	3870.6	4275.1	4797.3	5080.2	5072.5	4661.6
40°	2443.5	2444.7	2580.4	2864.6	3366.3	3944.9	4541.3	5238.9	5526.9	5515.4	5086.6
42.5°	2273.2	2278.3	2405.1	2695.6	3283.1	4001.2	4779.4	5685.6	5964.7	5974.9	5427.1
45°	2120.9	2123.5	2248.9	2515.1	3135.9	4007.6	4993.2	6108.0	6379.4	6355.0	5784.2
47.5°	1896.9	1899.5	2085.1	2343.6	2941.4	3955.1	5169.8	6509.9	6758.2	6707.0	6086.2
50°	1486.0	1491.2	1711.3	2165.7	2704.6	3834.8	5309.3	6887.5	7079.5	7057.7	6396.0
52.5°	1372.1	1368.3	1460.4	1953.2	2492.1	3617.2	5397.6	7226.7	7421.3	7418.7	6652.0
55°	1314.5	1310.7	1341.4	1583.3	2283.5	3294.6	5395.1	7490.4	7704.1	7651.6	6886.2
57.5°	1212.1	1204.4	1283.8	1402.8	2050.5	2892.7	5267.1	7727.2	7908.9	7893.6	7097.4
60°	1139.2	1132.8	1186.5	1296.6	1802.2	2484.4	4938.1	7850.0	8115.0	8121.4	7275.3
62.5°	1063.7	1059.8	1105.9	1208.3	1607.6	2186.2	4431.2	7688.8	8243.0	8208.4	7453.3
65°	977.9	975.3	1018.9	1102.1	1414.4	1959.6	3934.6	7400.8	8127.8	8167.5	7476.3
67.5°	875.5	874.2	916.5	974.1	1203.2	1731.8	3174.3	7061.6	7798.8	7755.3	7180.6
70°	750.1	744.9	797.4	851.2	1007.3	1473.2	2470.3	6458.7	7263.8	7421.3	6591.8
72.5°	631.0	628.5	678.4	718.1	834.5	1203.2	1802.2	5585.8	6863.2	6636.6	5939.1
75°	494.1	481.3	533.7	570.9	657.9	957.4	1228.8	3731.1	5776.5	5729.1	4989.3
77.5°	199.7	231.7	276.5	309.8	367.4	542.7	642.5	1770.2	3685.0	3847.6	3470.0
80°	76.8	81.9	197.1	222.7	247.0	312.3	247.0	746.2	1454.0	1585.9	2009.5
82.5°	43.5	48.6	97.3	93.4	92.2	79.4	92.2	366.1	759.0	832.0	970.2
85°	24.3	26.9	39.7	43.5	37.1	32.0	28.2	96.0	189.4	179.2	201.0
87.5°	3.8	5.1	6.4	6.4	3.8	3.8	3.8	5.1	5.1	5.1	6.4
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°	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4
2.5°	2152.9	2138.8	2124.7	2108.1	2087.6	2074.8	2069.7	2076.1	2094.0	2072.3	2054.3
5°	2145.2	2126.0	2094.0	2062.0	2036.4	2014.7	1985.2	1982.7	1987.8	1978.8	1955.8
7.5°	2161.9	2133.7	2068.4	2046.7	1992.9	1941.7	1925.1	1918.7	1903.3	1885.4	1863.6
10°	2195.1	2137.5	2071.0	2007.0	1957.1	1902.0	1838.0	1839.3	1832.9	1812.4	1792.0
12.5°	2211.8	2143.9	2046.7	1978.8	1902.0	1834.2	1771.5	1743.3	1754.8	1738.2	1716.4
15°	2242.5	2170.8	2037.7	1937.9	1832.9	1756.1	1708.8	1667.8	1642.2	1646.0	1633.2
17.5°	2300.1	2195.1	2014.7	1893.1	1779.2	1688.3	1597.4	1593.6	1555.2	1533.4	1514.2
20°	2360.3	2238.7	2012.1	1844.4	1692.1	1579.5	1506.5	1465.6	1442.5	1424.6	1410.5
22.5°	2438.3	2298.8	2021.1	1816.3	1614.0	1487.3	1393.9	1338.8	1301.7	1288.9	1278.7
25°	2548.4	2374.3	2045.4	1766.4	1532.1	1386.2	1259.5	1201.9	1159.7	1149.4	1141.7
27.5°	2699.5	2470.3	2069.7	1712.6	1436.1	1244.1	1109.7	1053.4	1006.1	1004.8	990.7
30°	2937.5	2617.5	2078.7	1665.2	1333.7	1091.8	957.4	904.9	869.1	855.0	865.3
32.5°	3381.7	2942.6	2135.0	1592.3	1204.4	943.3	829.4	787.2	747.5	732.1	742.4
35°	3861.7	3331.8	2229.7	1542.4	1062.4	802.5	724.5	674.5	625.9	618.2	614.4
37.5°	4213.7	3686.3	2408.9	1460.4	928.0	716.8	614.4	573.4	545.3	529.9	544.0
40°	4613.0	3980.7	2544.6	1373.4	791.0	625.9	512.0	499.2	486.4	476.1	491.5
42.5°	4929.2	4284.1	2705.9	1258.2	680.9	531.2	455.7	465.9	472.3	467.2	468.5
45°	5219.7	4509.3	2716.1	1082.9	581.1	460.8	439.0	459.5	474.9	472.3	471.0
47.5°	5503.9	4778.1	2740.4	897.3	509.4	442.9	440.3	455.7	476.1	480.0	480.0
50°	5797.0	4982.9	2703.3	721.9	482.5	445.4	444.1	442.9	468.5	469.7	473.6
52.5°	6017.1	5149.3	2527.9	596.5	481.3	453.1	450.5	437.7	449.3	458.2	451.8
55°	6250.1	5356.7	2306.5	549.1	478.7	455.7	465.9	444.1	436.5	428.8	436.5
57.5°	6471.5	5501.3	2015.9	520.9	468.5	451.8	472.3	442.9	426.2	404.5	396.8
60°	6641.8	5534.6	1692.1	491.5	455.7	442.9	444.1	433.9	412.1	385.3	373.8
62.5°	6699.4	5553.8	1423.3	463.3	430.1	428.8	418.5	414.7	405.7	389.1	384.0
65°	6650.7	5336.2	1136.6	428.8	408.3	409.6	394.2	381.4	361.0	334.1	331.5
67.5°	6316.6	4953.5	871.7	385.3	375.0	387.8	371.2	349.4	326.4	308.5	311.0
70°	5744.5	4500.4	611.8	325.1	336.6	359.7	353.3	325.1	299.5	284.2	286.7
72.5°	5108.4	3813.0	416.0	253.4	273.9	322.6	322.6	303.4	277.8	257.3	252.2
75°	4029.3	2995.1	268.8	167.7	180.5	263.7	285.4	256.0	227.8	215.0	209.9
77.5°	2735.3	1950.7	171.5	96.0	120.3	172.8	225.3	229.1	270.1	271.4	259.8
80°	1607.6	1116.1	105.0	56.3	60.2	99.8	180.5	226.6	286.7	202.2	185.6
82.5°	800.0	476.1	47.4	34.6	35.8	49.9	97.3	259.8	221.4	126.7	121.6
85°	177.9	78.1	19.2	17.9	20.5	25.6	49.9	215.0	135.7	102.4	99.8
87.5°	6.4	5.1	5.1	5.1	3.8	3.8	10.2	70.4	53.8	44.8	42.2
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)