

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: P233837

Luminaire Tested: **VERD-G-C028-D-U-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C028-D-U-T2-7030  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 885mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13161 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 103  
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: 28.75 FT

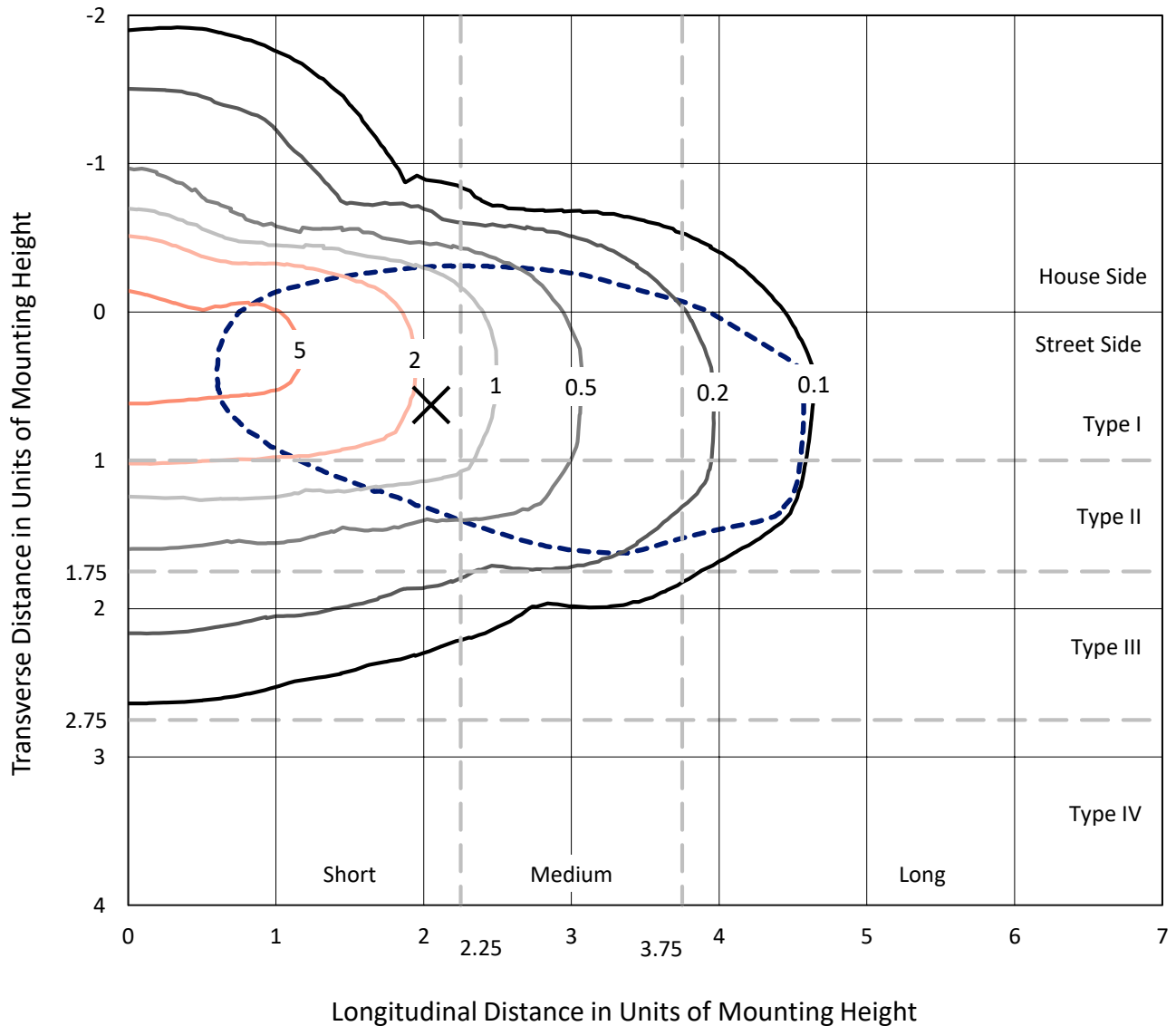


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### Iso-Footcandle Lines of Horizontal Illumination

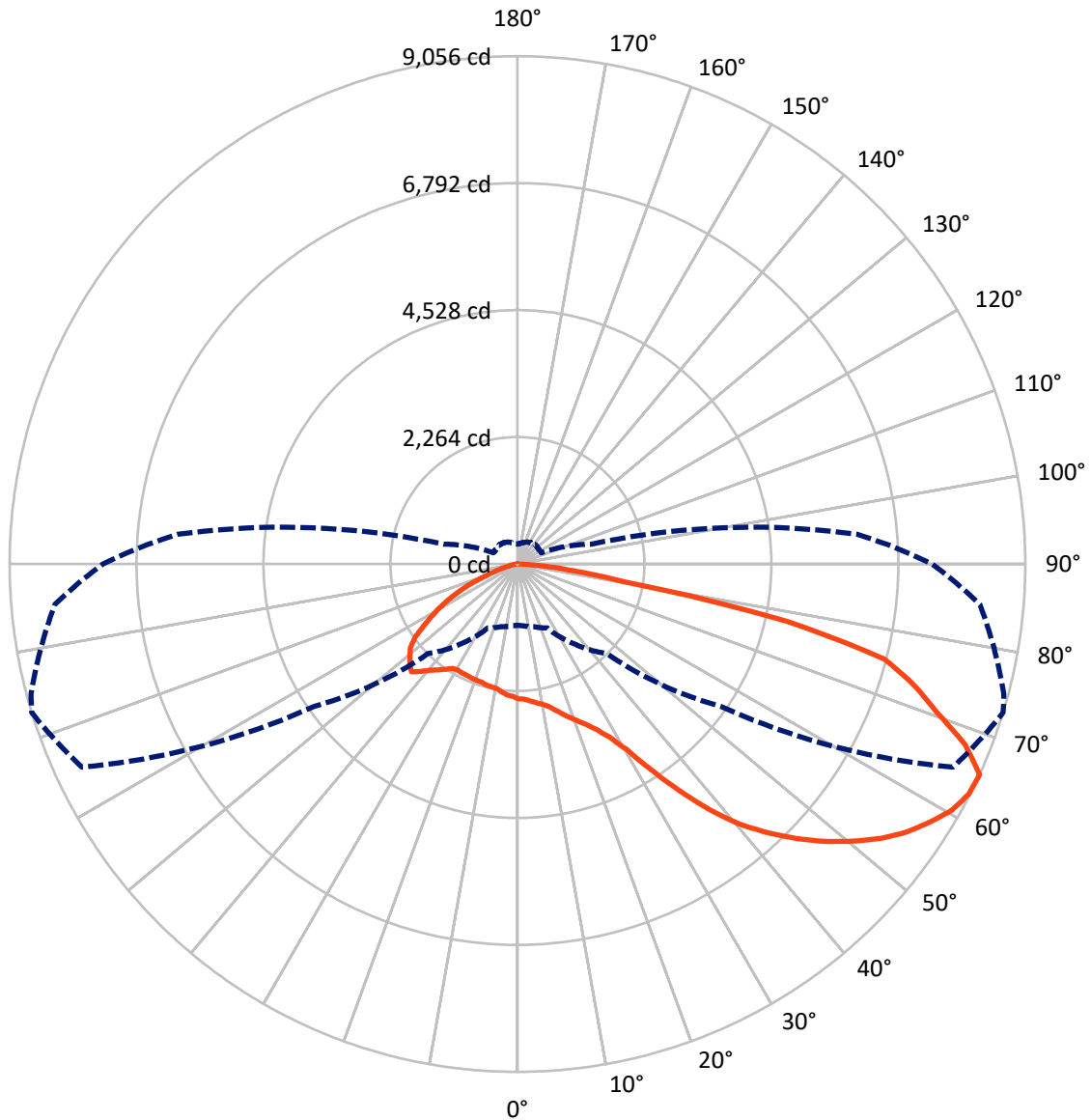
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3373.8	0.0	3373.8
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	9787.3	0.0	9787.3
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	13161.0	0.0	13161.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.6	1.7
10°-20°	694.4	5.3
20°-30°	1164.7	8.8
30°-40°	1708.0	13.0
40°-50°	2308.4	17.5
50°-60°	2674.2	20.3
60°-70°	2612.2	19.8
70°-80°	1568.6	11.9
80°-90°	200.9	1.5
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°	13161.0	100.0
0°-180°	13161.0	100.0



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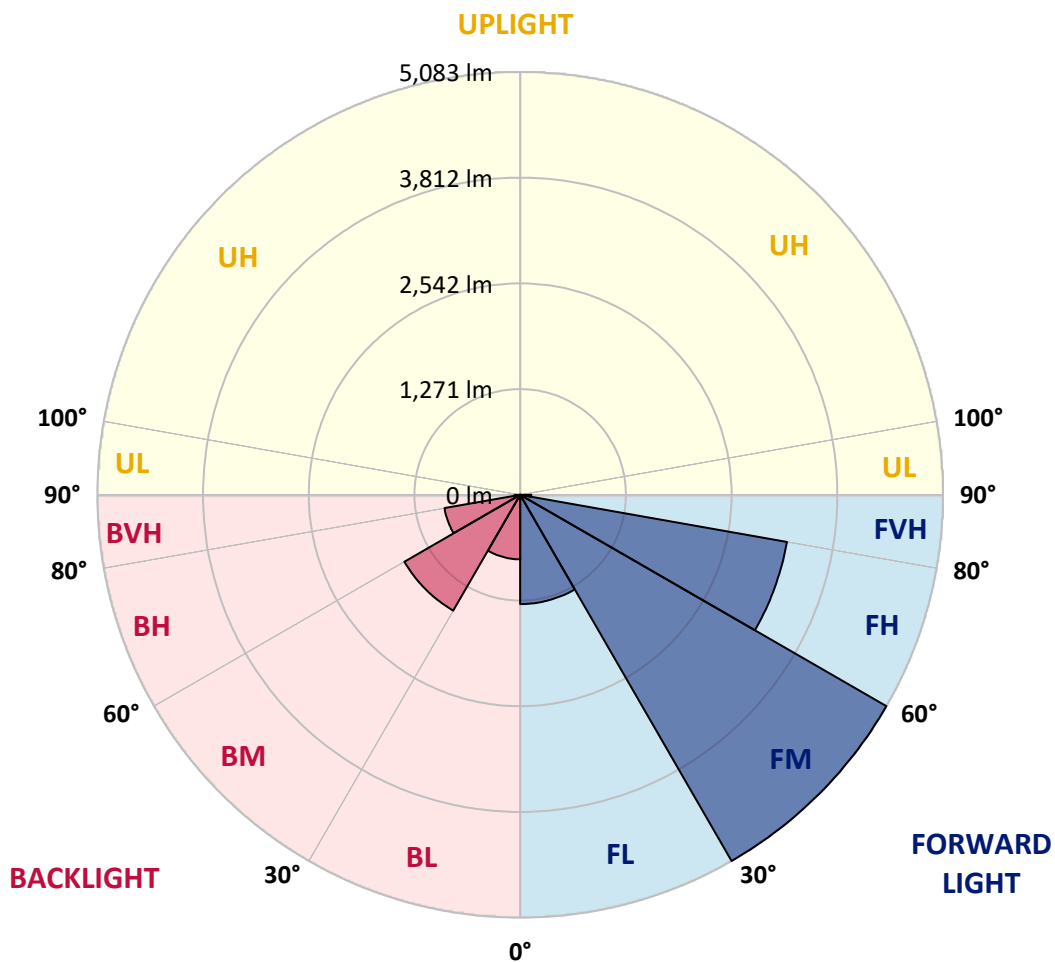
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.2	10.0			
FM (30°-60°)	5083.2	38.6			
FH (60°-80°)	3257.1	24.7			G2/5000
FVH (80°-90°)	133.8	1.0			G2/225
BL (0°-30°)	775.5	5.9	B2/1000		
BM (30°-60°)	1607.4	12.2	B2/2500		
BH (60°-80°)	923.7	7.0	B2/1000		G2/1000
BVH (80°-90°)	67.1	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°	73°	75°	85°
0°	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5
2.5°	2554.6	2564.2	2553.4	2522.4	2506.8	2496.1	2463.8	2435.2	2412.5	2410.1	2388.6
5°	2652.6	2667.0	2649.0	2609.6	2594.1	2571.4	2535.5	2496.1	2455.5	2447.1	2404.1
7.5°	2776.9	2779.3	2769.7	2730.3	2698.0	2650.2	2588.1	2546.3	2499.7	2486.5	2418.4
10°	2882.0	2880.8	2868.9	2830.7	2798.4	2756.6	2669.4	2601.2	2546.3	2529.6	2435.2
12.5°	2982.4	2980.0	2968.1	2928.6	2888.0	2853.4	2787.6	2695.6	2621.6	2600.0	2483.0
15°	3106.7	3100.7	3081.6	3029.0	2996.7	2956.1	2908.3	2816.3	2731.5	2701.6	2552.3
17.5°	3202.3	3201.1	3186.7	3142.5	3104.3	3060.1	3015.9	2944.2	2852.2	2818.7	2620.4
20°	3257.2	3252.5	3248.9	3214.2	3204.7	3180.8	3117.4	3062.5	2970.5	2935.8	2696.8
22.5°	3315.8	3317.0	3318.2	3300.2	3327.7	3307.4	3260.8	3193.9	3100.7	3061.3	2804.4
25°	3328.9	3331.3	3355.2	3394.6	3428.1	3465.1	3431.7	3366.0	3265.6	3223.8	2951.3
27.5°	3291.9	3301.4	3373.1	3440.0	3558.3	3606.1	3600.2	3596.6	3493.8	3452.0	3153.3
30°	3325.3	3325.3	3374.3	3489.0	3638.4	3763.9	3791.3	3867.8	3836.7	3806.9	3492.6
32.5°	3225.0	3242.9	3330.1	3490.2	3726.8	3909.6	4033.9	4246.6	4369.7	4344.6	3973.0
35°	3036.2	3060.1	3187.9	3432.9	3771.0	4081.7	4303.9	4713.8	4951.6	4981.4	4551.3
37.5°	2890.4	2910.7	3070.8	3343.3	3787.8	4243.0	4615.8	5239.5	5546.6	5531.1	5041.2
40°	2712.4	2748.2	2909.5	3236.9	3748.3	4380.4	4954.0	5722.3	6099.8	6028.1	5507.2
42.5°	2552.3	2583.3	2718.3	3067.2	3693.4	4458.1	5259.8	6219.3	6550.3	6493.0	5948.1
45°	2382.6	2410.1	2535.5	2864.1	3565.5	4496.3	5546.6	6694.9	6982.9	6918.3	6356.7
47.5°	2187.8	2224.9	2374.2	2672.9	3377.9	4472.4	5755.7	7108.3	7393.9	7346.1	6694.9
50°	1696.7	1735.0	2125.7	2493.7	3117.4	4373.2	5943.3	7521.7	7765.5	7720.1	6993.6
52.5°	1540.2	1556.9	1678.8	2288.2	2846.2	4177.3	6060.4	7862.3	8127.5	8082.1	7275.6
55°	1444.6	1456.6	1524.7	1868.8	2615.6	3861.8	6074.7	8216.0	8432.2	8372.5	7575.5
57.5°	1346.6	1359.8	1435.0	1611.9	2383.8	3368.4	5923.0	8515.9	8679.6	8615.1	7862.3
60°	1264.2	1271.3	1345.4	1467.3	2122.1	2878.5	5532.3	8720.2	8907.8	8824.2	8143.1
62.5°	1188.9	1198.5	1252.2	1363.4	1902.2	2511.6	4987.4	8721.4	9033.3	8981.9	8285.3
65°	1090.9	1105.3	1157.8	1258.2	1724.2	2260.7	4423.4	8569.6	9056.0	8979.5	8278.1
67.5°	977.4	995.3	1043.1	1123.2	1487.6	1993.1	3637.2	8370.1	8612.7	8599.5	7936.4
70°	863.9	863.9	917.7	982.2	1234.3	1706.3	2873.7	7659.2	7936.4	7956.7	7323.4
72.5°	728.9	731.3	773.1	829.2	994.1	1400.4	2093.4	6547.9	7398.7	7152.5	6605.3
75°	611.8	609.4	652.4	699.0	808.9	1102.9	1365.7	4810.6	6761.8	6816.8	5813.1
77.5°	325.0	313.1	368.0	405.1	474.4	613.0	757.6	2412.5	4896.6	5004.1	4654.0
80°	92.0	93.2	243.8	272.4	311.9	303.5	351.3	920.1	1936.9	2183.0	2713.6
82.5°	55.0	63.3	138.6	162.5	121.9	78.9	133.8	511.4	1002.5	1123.2	1346.6
85°	28.7	31.1	49.0	60.9	46.6	39.4	40.6	215.1	487.5	495.9	537.7
87.5°	13.1	13.1	17.9	19.1	11.9	7.2	4.8	3.6	3.6	2.4	2.4
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°	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5
2.5°	2371.8	2383.8	2363.5	2347.9	2336.0	2328.8	2320.4	2300.1	2306.1	2314.5	2313.3
5°	2383.8	2389.8	2353.9	2304.9	2259.5	2227.2	2205.7	2173.5	2173.5	2186.6	2186.6
7.5°	2394.5	2386.2	2313.3	2230.8	2179.5	2153.2	2118.5	2083.9	2077.9	2087.4	2088.6
10°	2400.5	2364.7	2263.1	2186.6	2119.7	2065.9	2021.7	1982.3	1981.1	1994.2	1996.6
12.5°	2426.8	2357.5	2259.5	2154.4	2054.0	1996.6	1944.1	1899.9	1884.3	1885.5	1887.9
15°	2467.4	2386.2	2254.7	2110.2	2001.4	1924.9	1848.5	1792.3	1778.0	1797.1	1804.3
17.5°	2516.4	2432.8	2232.0	2069.5	1936.9	1844.9	1768.4	1718.2	1672.8	1652.5	1648.9
20°	2580.9	2472.2	2244.0	2009.8	1874.8	1751.7	1656.1	1595.2	1556.9	1554.5	1552.1
22.5°	2665.8	2516.4	2246.4	1970.4	1776.8	1648.9	1530.6	1496.0	1427.9	1402.8	1413.5
25°	2778.1	2583.3	2240.4	1928.5	1701.5	1529.4	1387.3	1323.9	1298.8	1270.2	1272.5
27.5°	2922.7	2689.7	2255.9	1873.6	1578.4	1383.7	1224.7	1156.6	1118.4	1094.5	1098.1
30°	3216.6	2851.0	2254.7	1821.0	1464.9	1233.1	1053.9	1008.5	970.2	948.7	959.5
32.5°	3634.8	3201.1	2304.9	1750.5	1335.9	1031.2	910.5	859.1	826.9	803.0	808.9
35°	4152.2	3582.2	2434.0	1654.9	1188.9	877.0	794.6	731.3	691.8	682.3	678.7
37.5°	4632.5	3919.2	2555.8	1591.6	1020.4	792.2	688.2	624.9	590.3	602.2	602.2
40°	5061.5	4366.1	2693.3	1490.0	867.5	695.4	570.0	541.3	523.4	543.7	550.8
42.5°	5385.3	4795.0	2879.7	1356.2	743.2	580.7	487.5	507.8	515.0	529.3	525.7
45°	5786.8	5040.0	3063.7	1231.9	634.5	483.9	470.8	512.6	529.3	542.5	536.5
47.5°	6156.0	5230.0	3026.6	1002.5	534.1	468.4	479.1	512.6	541.3	562.8	559.2
50°	6473.8	5467.8	2956.1	779.1	512.6	482.7	487.5	499.5	542.5	556.8	556.8
52.5°	6672.2	5703.1	2868.9	629.7	528.1	500.7	492.3	491.1	519.8	530.5	521.0
55°	6911.2	5946.9	2643.1	584.3	534.1	512.6	505.4	494.7	503.0	494.7	499.5
57.5°	7176.4	6187.1	2296.6	571.2	530.5	509.0	547.3	489.9	485.1	455.2	448.1
60°	7409.4	6281.5	1993.1	541.3	511.4	499.5	509.0	483.9	460.0	420.6	405.1
62.5°	7496.7	6273.1	1684.8	510.2	482.7	485.1	483.9	466.0	444.5	405.1	395.5
65°	7391.5	6081.9	1365.7	473.2	460.0	469.6	457.6	431.4	395.5	363.2	354.9
67.5°	7035.4	5594.4	1014.4	424.2	423.0	440.9	432.5	396.7	357.3	332.2	332.2
70°	6354.3	4994.6	657.2	352.5	378.8	409.8	409.8	371.6	320.2	298.7	304.7
72.5°	5608.7	4298.0	425.4	261.7	298.7	371.6	369.2	342.9	295.1	267.7	268.8
75°	4858.4	3410.2	274.8	180.4	193.6	316.6	327.4	279.6	229.4	196.0	190.0
77.5°	3693.4	2565.4	174.5	105.1	123.1	193.6	248.5	233.0	234.2	285.6	283.2
80°	2271.5	1546.2	126.7	51.4	60.9	126.7	200.7	222.2	311.9	205.5	188.8
82.5°	1137.5	722.9	66.9	31.1	34.7	56.2	119.5	266.5	227.0	136.2	129.0
85°	425.4	194.8	20.3	15.5	19.1	28.7	49.0	243.8	144.6	108.7	106.3
87.5°	2.4	3.6	3.6	4.8	7.2	8.4	17.9	115.9	72.9	52.6	50.2
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)