

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: P509095

Luminaire Tested: **VERD-CA2-100-760-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-100-760-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1370mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13912 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

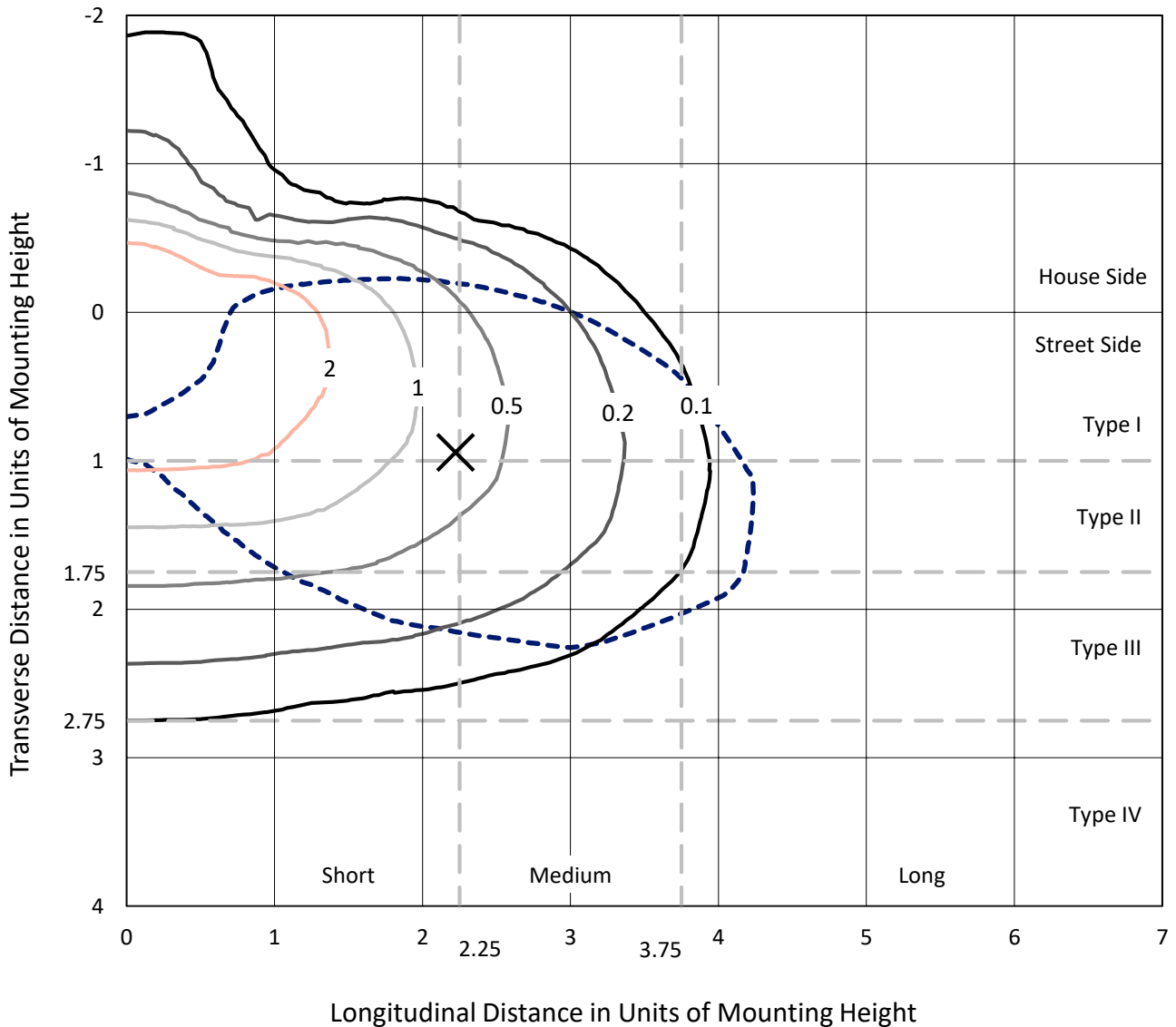
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

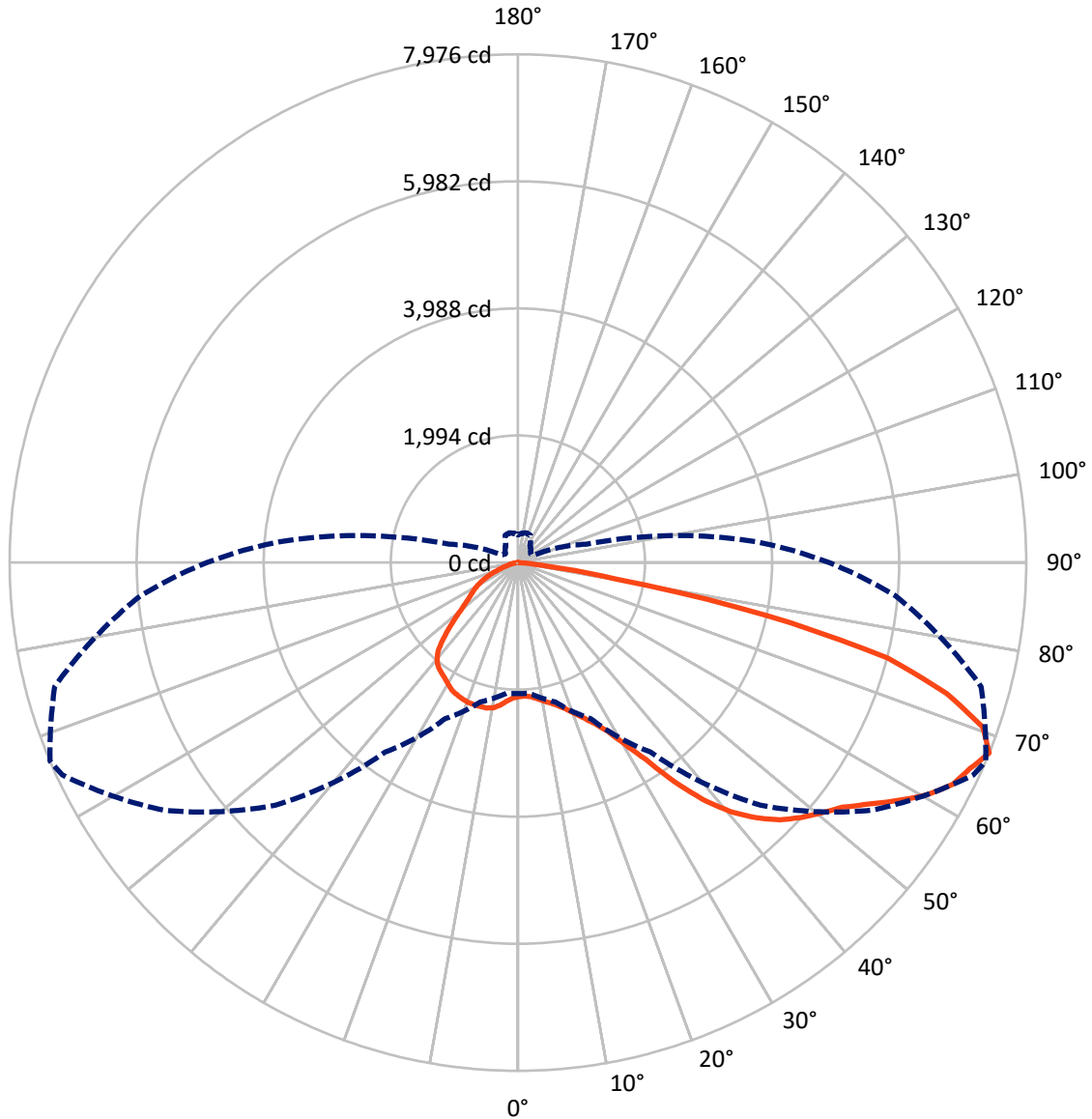
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3181.1	0.0	3181.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	10730.9	0.0	10730.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	13912.0	0.0	13912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.1	1.5
10°-20°	682.1	4.9
20°-30°	1178.7	8.5
30°-40°	1789.1	12.9
40°-50°	2431.1	17.5
50°-60°	2891.3	20.8
60°-70°	2974.8	21.4
70°-80°	1622.7	11.7
80°-90°	128.9	0.9
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°	13912.0	100.0
0°-180°	13912.0	100.0

**Coefficient of Utilization**



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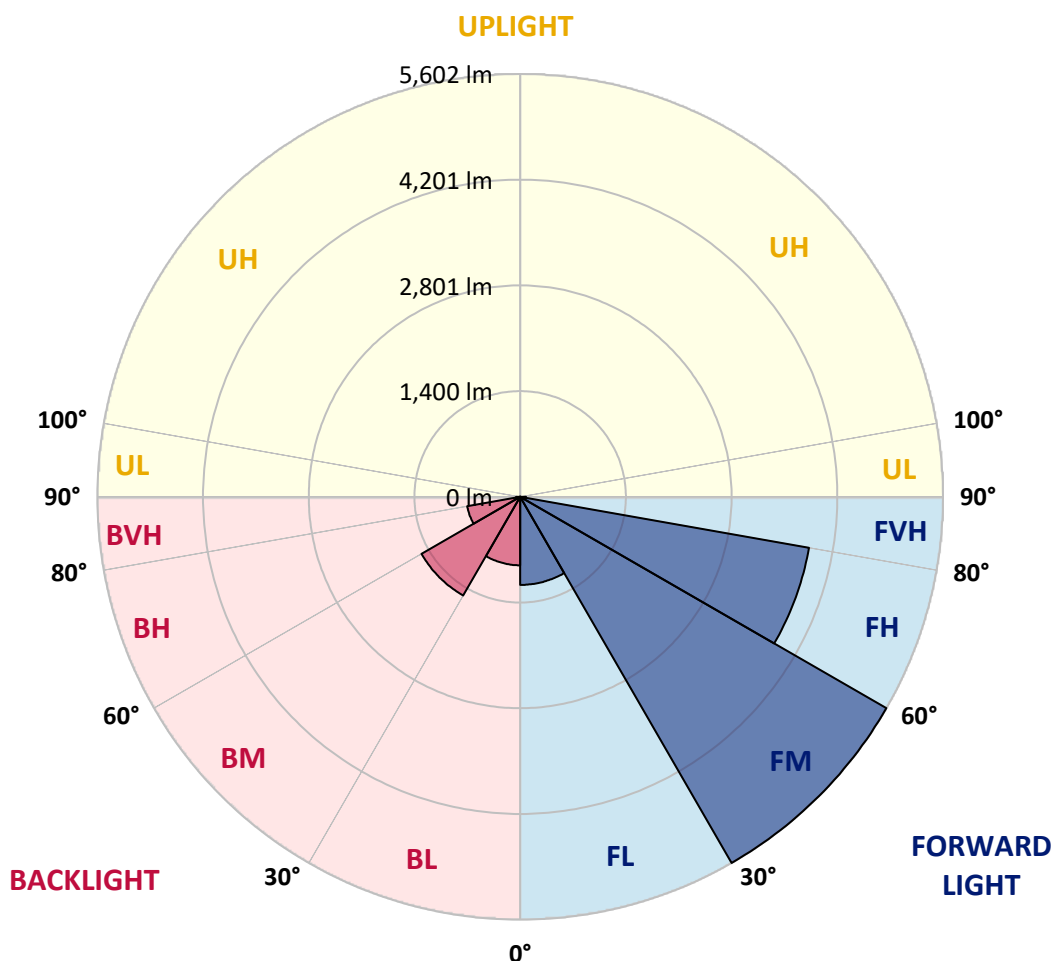
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.9	8.4			
FM (30°-60°)	5601.5	40.3			
FH (60°-80°)	3885.3	27.9			G2/5000
FVH (80°-90°)	77.2	0.6			G1/100
BL (0°-30°)	907.1	6.5	B2/1000		
BM (30°-60°)	1510.0	10.9	B2/2500		
BH (60°-80°)	712.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	51.8	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7
2.5°	2116.7	2107.7	2095.6	2100.1	2091.1	2106.2	2100.1	2097.1	2097.1	2098.6	2106.2
5°	2164.9	2155.9	2146.8	2145.3	2127.3	2133.3	2124.2	2115.2	2115.2	2113.7	2116.7
7.5°	2249.3	2237.2	2226.7	2225.2	2202.6	2199.6	2172.5	2154.4	2154.4	2152.9	2157.4
10°	2360.8	2356.3	2335.2	2321.6	2294.5	2276.4	2243.3	2214.6	2208.6	2199.6	2211.6
12.5°	2467.7	2466.2	2446.6	2431.6	2393.9	2362.3	2308.0	2268.9	2261.3	2250.8	2259.8
15°	2601.8	2588.3	2567.2	2558.1	2503.9	2455.7	2393.9	2335.2	2327.6	2315.6	2323.1
17.5°	2749.5	2741.9	2708.8	2698.2	2630.4	2574.7	2497.9	2422.5	2410.5	2393.9	2392.4
20°	2927.2	2913.7	2888.1	2857.9	2791.6	2711.8	2622.9	2537.0	2526.5	2512.9	2484.3
22.5°	3118.6	3103.5	3077.9	3046.3	2961.9	2877.5	2766.0	2657.6	2651.5	2642.5	2589.8
25°	3300.9	3275.3	3278.3	3248.1	3172.8	3065.8	2934.8	2805.2	2802.2	2800.7	2716.3
27.5°	3495.2	3468.1	3459.1	3448.5	3377.7	3276.8	3129.1	3005.6	2995.0	2996.5	2868.5
30°	3677.5	3665.4	3657.9	3650.4	3615.7	3525.3	3383.7	3273.7	3306.9	3303.9	3127.6
32.5°	3819.1	3810.1	3841.7	3877.9	3868.8	3793.5	3695.6	3645.9	3679.0	3786.0	3632.3
35°	3944.2	3939.6	3999.9	4076.7	4131.0	4076.7	4066.2	4143.0	4219.9	4397.6	4308.7
37.5°	4079.8	4073.7	4124.9	4256.0	4350.9	4367.5	4447.4	4644.7	4718.5	4896.3	4709.5
40°	4078.2	4085.8	4209.3	4376.5	4549.8	4689.9	4854.1	5045.5	5140.4	5224.7	4935.5
42.5°	4012.0	4016.5	4171.7	4489.5	4741.1	5016.8	5163.0	5408.5	5473.3	5489.9	5202.1
45°	3944.2	3947.2	4115.9	4473.0	4900.8	5322.7	5485.4	5709.8	5759.6	5702.3	5382.9
47.5°	3846.2	3865.8	4048.1	4456.4	5037.9	5604.4	5735.5	5958.4	5978.0	5905.7	5533.6
50°	3730.2	3740.8	3950.2	4402.2	5128.3	5779.1	5934.3	6136.2	6173.9	6092.5	5720.4
52.5°	3588.6	3597.7	3825.1	4329.8	5178.0	5913.2	6086.5	6327.5	6378.8	6342.6	5884.6
55°	3425.9	3430.4	3662.4	4212.3	5164.5	5972.0	6219.1	6598.7	6684.6	6595.7	6021.7
57.5°	3222.5	3239.1	3502.7	4036.1	5062.0	6045.8	6458.6	6933.2	7043.1	6853.3	6124.1
60°	3013.1	3029.7	3269.2	3831.2	4890.3	6078.9	6705.7	7293.2	7389.7	7097.4	6187.4
62.5°	2778.1	2800.7	2999.6	3522.3	4582.9	6035.3	6888.0	7608.1	7662.3	7243.5	6170.8
65°	2436.1	2448.2	2665.1	3150.2	4182.2	5807.8	6880.4	7776.8	7794.9	7404.7	6098.5
67.5°	2056.4	2058.0	2262.8	2701.3	3630.8	5382.9	6775.0	7886.8	7975.7	7523.7	5940.3
70°	1563.8	1584.9	1744.6	2070.0	2967.9	4656.8	6427.0	7778.3	7736.2	7198.3	5486.9
72.5°	1116.4	1104.3	1185.7	1405.6	2077.5	3593.1	5541.1	7028.1	7037.1	6556.5	4774.3
75°	593.6	596.6	665.9	851.2	1060.6	2338.2	4432.3	5937.3	5991.6	5622.5	3736.3
77.5°	132.6	150.7	229.0	325.4	461.0	748.8	2404.5	3894.4	3996.9	3700.1	2047.4
80°	102.4	104.0	150.7	185.3	203.4	358.6	763.8	1413.1	1568.3	1480.9	769.8
82.5°	67.8	69.3	99.4	102.4	97.9	164.2	346.5	423.3	465.5	406.8	286.2
85°	36.2	37.7	45.2	49.7	39.2	48.2	45.2	36.2	37.7	33.1	33.1
87.5°	7.5	4.5	6.0	4.5	4.5	3.0	4.5	4.5	4.5	4.5	4.5
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°	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7
2.5°	2106.2	2109.2	2116.7	2128.8	2134.8	2148.3	2157.4	2180.0	2211.6	2201.1	2187.5
5°	2118.2	2127.3	2152.9	2184.5	2208.6	2244.8	2262.8	2306.5	2342.7	2339.7	2315.6
7.5°	2163.4	2183.0	2214.6	2261.3	2302.0	2338.2	2363.8	2410.5	2443.6	2430.1	2407.5
10°	2220.7	2240.2	2274.9	2317.1	2347.2	2386.4	2403.0	2440.6	2461.7	2445.1	2425.6
12.5°	2273.4	2283.9	2308.0	2339.7	2356.3	2381.9	2389.4	2416.5	2436.1	2428.6	2404.5
15°	2324.6	2323.1	2327.6	2336.7	2342.7	2348.7	2350.2	2369.8	2383.4	2368.3	2351.7
17.5°	2381.9	2366.8	2347.2	2332.1	2309.5	2299.0	2279.4	2288.5	2287.0	2274.9	2261.3
20°	2454.2	2427.1	2366.8	2320.1	2261.3	2214.6	2174.0	2166.4	2166.4	2133.3	2131.8
22.5°	2540.1	2494.9	2393.9	2291.5	2196.6	2122.7	2047.4	2003.7	1972.1	1948.0	1937.4
25°	2651.5	2568.7	2418.0	2252.3	2112.2	1978.1	1865.1	1804.9	1744.6	1705.4	1699.4
27.5°	2770.6	2680.2	2433.1	2217.6	1996.2	1812.4	1655.7	1532.2	1476.4	1450.8	1426.7
30°	2964.9	2805.2	2460.2	2143.8	1850.0	1609.0	1401.1	1256.5	1202.2	1184.2	1169.1
32.5°	3436.5	3129.1	2485.8	2068.5	1693.4	1384.5	1110.3	988.3	941.6	959.7	965.7
35°	4027.0	3611.2	2607.8	1981.1	1530.7	1129.9	854.2	772.9	775.9	803.0	812.0
37.5°	4427.8	4036.1	2856.4	1871.1	1297.1	837.6	661.4	635.8	658.4	682.5	687.0
40°	4662.8	4230.4	3031.2	1735.6	1021.4	626.7	497.2	479.1	527.3	581.5	614.7
42.5°	4912.9	4396.1	3121.6	1559.3	717.1	453.5	381.2	394.7	471.6	518.3	539.3
45°	5047.0	4525.7	3080.9	1307.7	488.1	352.5	342.0	379.7	456.5	498.7	504.7
47.5°	5191.6	4655.3	2983.0	1045.5	373.6	334.5	336.0	381.2	459.5	504.7	504.7
50°	5316.6	4762.2	2808.2	819.6	355.5	322.4	337.5	388.7	464.0	503.2	501.7
52.5°	5461.3	4810.4	2559.6	662.9	337.5	311.9	339.0	394.7	456.5	479.1	476.1
55°	5506.5	4775.8	2440.6	554.4	323.9	305.8	345.0	403.8	453.5	458.0	450.5
57.5°	5506.5	4682.4	2305.0	473.1	311.9	305.8	348.0	402.3	470.0	498.7	495.7
60°	5482.4	4584.4	2097.1	423.3	295.3	302.8	349.5	424.8	558.9	590.6	589.1
62.5°	5405.5	4426.3	1841.0	373.6	278.7	304.3	345.0	456.5	638.8	625.2	592.1
65°	5223.2	4128.0	1493.0	328.4	260.6	304.3	339.0	501.7	568.0	542.4	530.3
67.5°	4879.7	3752.8	1110.3	281.7	239.5	284.7	329.9	470.0	482.1	453.5	435.4
70°	4426.3	3178.8	712.6	238.0	216.9	268.2	323.9	441.4	465.5	430.9	408.3
72.5°	3688.0	2525.0	412.8	194.3	183.8	247.1	311.9	427.9	458.0	411.3	379.7
75°	2601.8	1593.9	271.2	143.1	147.6	210.9	289.3	400.7	429.4	372.1	326.9
77.5°	1325.8	598.1	192.8	105.5	99.4	161.2	250.1	369.1	423.3	375.1	320.9
80°	468.5	301.3	126.6	69.3	64.8	99.4	191.3	313.4	397.7	366.1	355.5
82.5°	200.4	150.7	69.3	43.7	39.2	49.7	108.5	247.1	349.5	331.4	400.7
85°	28.6	25.6	19.6	16.6	16.6	22.6	34.7	122.0	236.5	269.7	326.9
87.5°	4.5	4.5	4.5	3.0	3.0	3.0	1.5	18.1	78.3	117.5	162.7
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)