

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: P510056

Luminaire Tested: **VERD-M-CA4-190-760-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-190-760-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 870mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24784 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

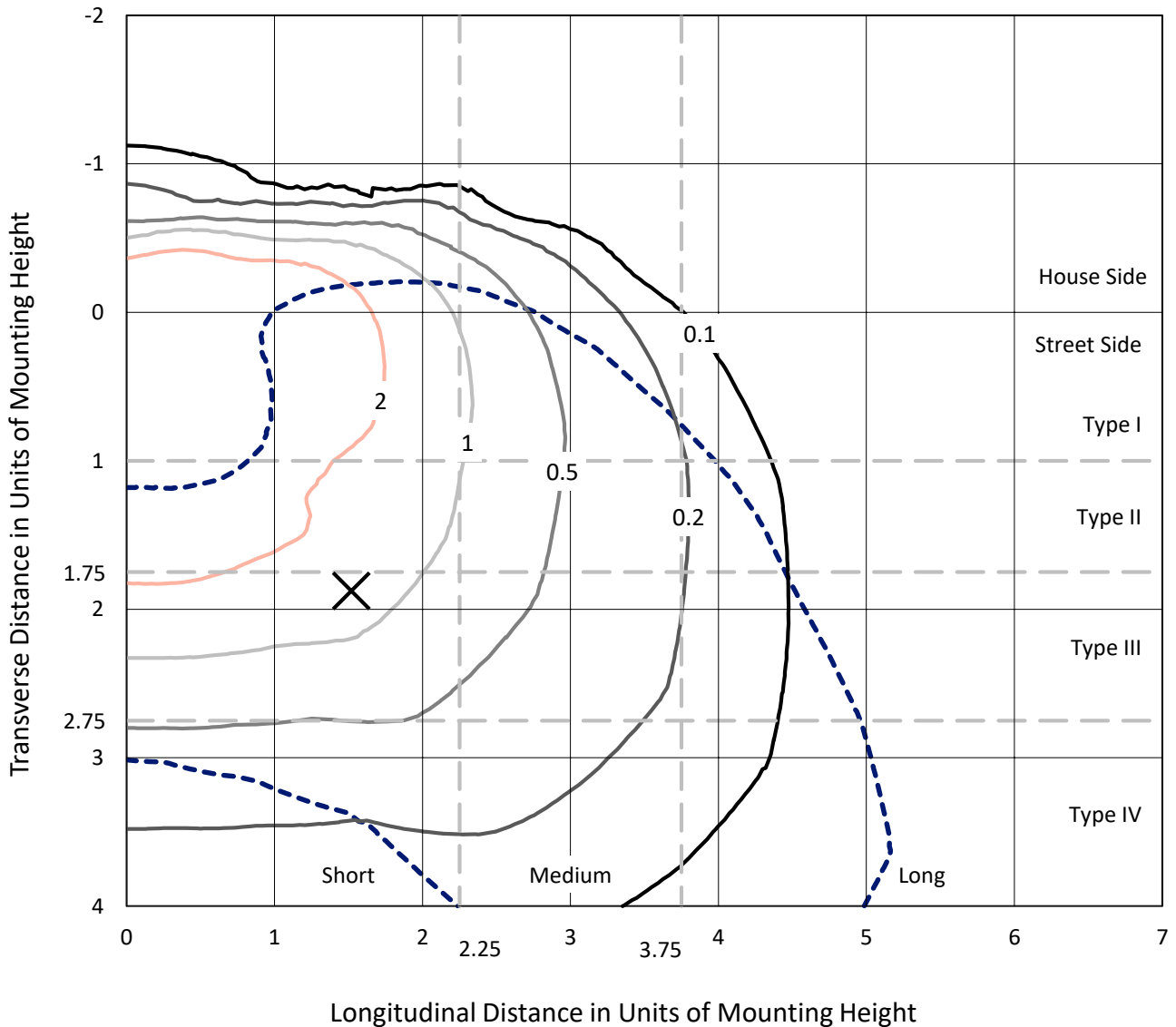
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

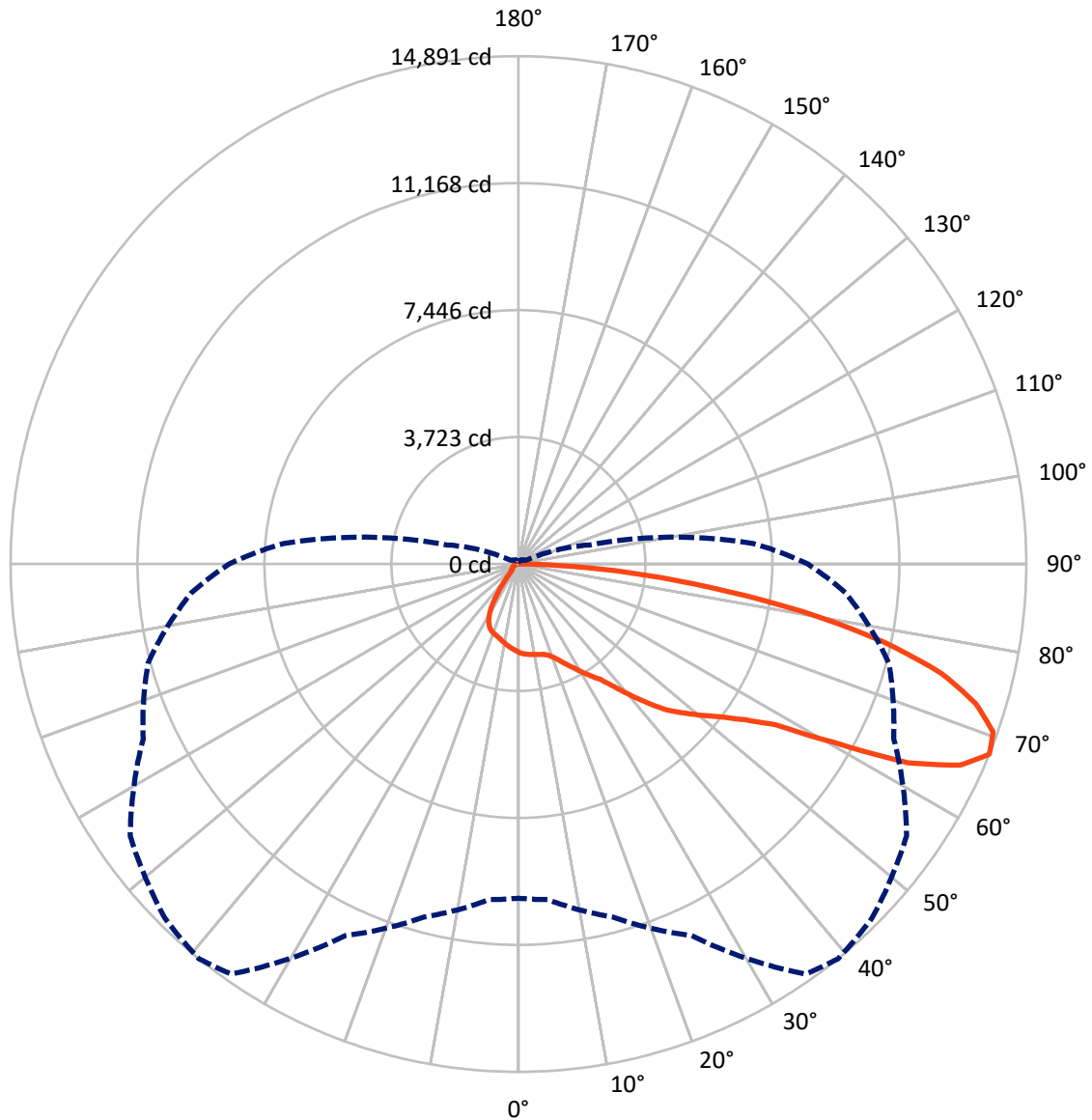
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3979.7	0.0	3979.7
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	20804.3	0.0	20804.3
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	24784.0	0.0	24784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.0	1.0
10°-20°	729.2	2.9
20°-30°	1291.9	5.2
30°-40°	2069.2	8.3
40°-50°	3319.4	13.4
50°-60°	4852.0	19.6
60°-70°	6465.5	26.1
70°-80°	4851.8	19.6
80°-90°	960.0	3.9
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°	24784.0	100.0
0°-180°	24784.0	100.0

**Coefficient of Utilization**



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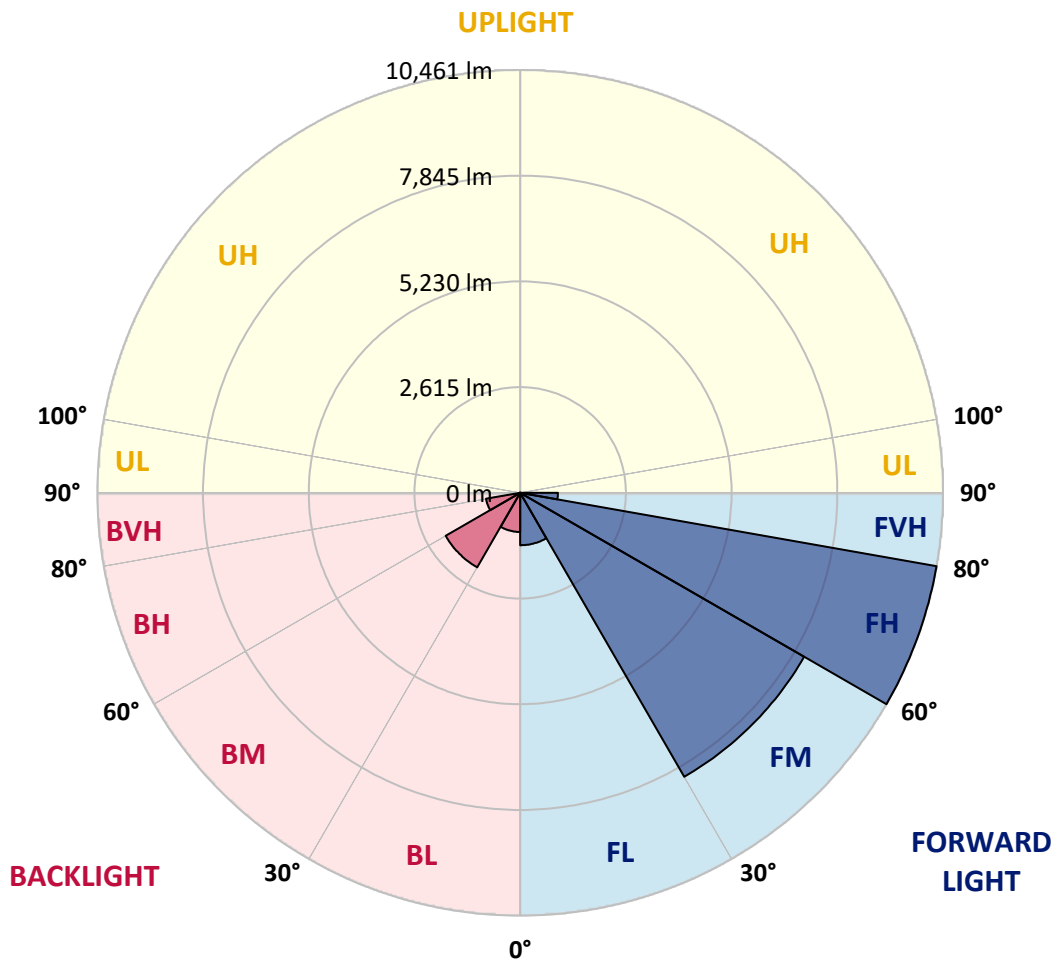
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.0	5.2			
FM (30°-60°)	8112.0	32.7			
FH (60°-80°)	10460.5	42.2			G4/12000
FVH (80°-90°)	934.8	3.8			G5
BL (0°-30°)	969.1	3.9	B2/1000		
BM (30°-60°)	2128.6	8.6	B2/2500		
BH (60°-80°)	856.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	25.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1
2.5°	2597.6	2632.5	2632.5	2622.5	2628.8	2633.8	2596.4	2606.4	2602.6	2601.4	2608.8
5°	2617.6	2656.2	2653.7	2641.2	2646.2	2656.2	2621.3	2636.2	2631.3	2618.8	2621.3
7.5°	2617.6	2649.9	2657.4	2643.7	2667.4	2679.8	2642.5	2656.2	2662.4	2653.7	2645.0
10°	2607.6	2636.2	2646.2	2643.7	2674.8	2694.8	2658.7	2697.3	2702.2	2702.2	2688.5
12.5°	2603.9	2636.2	2649.9	2661.1	2697.3	2718.4	2697.3	2734.6	2759.5	2758.3	2749.6
15°	2606.4	2642.5	2663.6	2682.3	2720.9	2747.1	2738.4	2795.6	2825.5	2834.2	2834.2
17.5°	2668.6	2712.2	2722.2	2742.1	2768.2	2808.1	2796.9	2870.4	2917.7	2932.6	2953.8
20°	2843.0	2876.6	2889.0	2879.1	2890.3	2915.2	2892.8	2963.8	3034.7	3074.6	3109.4
22.5°	3065.9	3090.8	3079.6	3069.6	3063.4	3069.6	3042.2	3089.5	3169.2	3226.5	3286.3
25°	3235.2	3290.0	3281.3	3253.9	3245.2	3252.7	3217.8	3276.3	3349.8	3409.6	3499.2
27.5°	3440.7	3474.3	3450.7	3440.7	3446.9	3445.7	3424.5	3480.5	3547.8	3622.5	3754.5
30°	3663.6	3692.2	3668.6	3658.6	3669.8	3677.3	3653.6	3752.0	3823.0	3903.9	4074.5
32.5°	4029.7	4098.2	4033.4	3903.9	3906.4	3917.6	3920.1	4052.1	4181.6	4245.1	4470.5
35°	4551.5	4606.3	4520.3	4363.4	4167.9	4160.5	4180.4	4377.1	4637.4	4926.3	5190.3
37.5°	5038.4	5118.1	5040.9	4857.8	4620.0	4562.7	4459.3	4693.4	5103.1	5724.5	6053.3
40°	5622.4	5682.2	5529.0	5369.6	5131.8	5050.8	4885.2	5034.6	5596.3	6557.6	6784.2
42.5°	6091.9	6128.0	6001.0	5834.1	5627.4	5566.4	5395.8	5409.5	6123.0	7287.3	7433.0
45°	6526.5	6565.1	6460.5	6318.5	6187.8	6114.3	5989.8	6057.0	6740.7	8056.9	7968.5
47.5°	6856.5	6895.1	6811.6	6710.8	6575.0	6525.2	6527.7	6769.3	7496.5	8672.1	8449.2
50°	7396.9	7382.0	7164.1	7054.5	6948.6	6974.8	7002.2	7345.9	8258.7	9200.1	8893.7
52.5°	8339.6	8266.1	7816.6	7530.2	7399.4	7444.2	7489.1	7946.1	9124.1	9682.0	9234.9
55°	9405.5	9330.8	8948.5	8335.9	7989.7	8061.9	8023.3	8540.1	9851.4	10145.2	9516.4
57.5°	10197.5	10320.8	10175.1	9841.4	8974.7	8880.0	8794.1	9140.3	10439.1	10608.5	9786.6
60°	10886.2	11058.0	11318.3	11227.4	10858.8	10612.2	9824.0	9841.4	11004.5	10929.8	9893.7
62.5°	11558.6	11659.5	12105.3	12203.7	12660.7	12837.5	12036.8	10748.0	11551.2	11152.7	9965.9
65°	10886.2	11015.7	11791.5	12507.5	13984.4	14221.0	13939.6	12389.2	11953.4	11284.7	9882.5
67.5°	9799.1	9877.5	10715.6	12018.1	14676.8	14891.0	14671.8	13896.0	12141.4	11244.8	9623.5
70°	8378.2	8501.5	9324.6	11070.5	14651.9	14766.4	14575.9	14077.8	12070.4	11015.7	8969.7
72.5°	6928.7	6998.4	7695.8	9437.9	13935.9	14031.7	13930.9	13798.9	11831.3	10376.9	7713.2
75°	5207.7	5222.7	5937.5	7453.0	12322.0	12822.6	12945.9	13318.2	10916.1	8895.0	5704.6
77.5°	3491.7	3639.9	4326.1	5695.9	10115.4	10916.1	11500.1	11771.6	9120.4	6638.6	3033.5
80°	1874.1	1911.5	2651.2	4042.2	7687.1	8452.9	9007.1	9012.0	6378.3	3288.8	677.4
82.5°	868.0	831.8	1334.9	2557.8	5324.8	5666.0	6037.1	5057.1	2554.1	561.6	173.1
85°	384.8	406.0	604.0	1246.5	2955.0	3297.5	3250.2	2239.0	448.3	151.9	105.8
87.5°	143.2	150.7	234.1	503.1	1054.7	1150.6	1034.8	430.9	58.5	53.5	32.4
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°	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1
2.5°	2600.1	2600.1	2597.6	2564.0	2556.5	2540.4	2526.7	2536.6	2525.4	2532.9	2525.4
5°	2611.3	2605.1	2590.2	2550.3	2531.6	2495.5	2468.1	2474.4	2459.4	2459.4	2458.2
7.5°	2637.5	2625.0	2598.9	2535.4	2500.5	2448.2	2405.9	2392.2	2377.2	2359.8	2357.3
10°	2679.8	2662.4	2627.5	2540.4	2473.1	2403.4	2329.9	2301.3	2263.9	2236.5	2231.5
12.5°	2738.4	2712.2	2664.9	2559.0	2470.6	2359.8	2261.4	2205.4	2160.5	2120.7	2112.0
15°	2823.0	2796.9	2740.8	2596.4	2471.9	2318.7	2189.2	2095.8	2018.6	1981.2	1982.5
17.5°	2946.3	2927.6	2841.7	2674.8	2495.5	2297.5	2129.4	1981.2	1861.7	1799.4	1790.7
20°	3104.5	3092.0	2987.4	2778.2	2550.3	2301.3	2064.7	1859.2	1683.6	1547.9	1518.0
22.5°	3288.8	3270.1	3141.8	2867.9	2592.7	2291.3	1993.7	1724.7	1460.7	1283.9	1249.0
25°	3494.2	3484.3	3283.8	2946.3	2597.6	2249.0	1891.6	1550.4	1219.1	1029.8	1000.0
27.5°	3757.0	3698.5	3412.0	2988.7	2586.4	2165.5	1745.9	1311.3	968.8	838.1	805.7
30°	4044.6	3926.3	3536.6	3021.0	2531.6	2032.3	1537.9	1034.8	721.0	605.2	589.0
32.5°	4363.4	4186.6	3653.6	3018.5	2434.5	1826.8	1267.7	718.5	486.9	439.6	423.4
35°	4940.0	4639.9	3794.3	2977.4	2271.4	1582.7	895.4	468.2	361.1	332.5	328.8
37.5°	5740.7	5231.4	3983.6	2899.0	2060.9	1298.8	584.0	320.0	308.8	310.1	308.8
40°	6397.0	5891.4	4246.4	2780.7	1795.7	927.7	349.9	285.2	291.4	295.1	296.4
42.5°	7039.5	6429.3	4571.4	2632.5	1518.0	602.7	283.9	272.7	267.7	274.0	276.5
45°	7556.3	6898.8	4877.7	2459.4	1193.0	356.1	275.2	252.8	244.1	246.6	250.3
47.5°	7969.7	7272.4	5062.0	2257.7	871.7	269.0	267.7	235.4	222.9	220.4	219.2
50°	8359.5	7592.4	5180.3	2013.6	555.4	259.0	247.8	215.4	200.5	198.0	198.0
52.5°	8624.8	7801.6	5220.2	1724.7	331.2	252.8	234.1	199.2	179.3	183.1	185.5
55°	8883.8	8013.3	5138.0	1348.6	254.0	236.6	219.2	179.3	163.1	178.1	183.1
57.5°	9007.1	8044.5	4952.5	937.7	246.6	214.2	198.0	160.6	148.2	156.9	156.9
60°	9106.7	8023.3	4693.4	594.0	240.3	199.2	180.6	145.7	130.8	125.8	122.0
62.5°	9040.7	7938.6	4172.9	387.3	222.9	181.8	164.4	134.5	113.3	99.6	98.4
65°	8900.0	7639.8	3331.1	305.1	206.7	173.1	149.4	120.8	99.6	83.4	82.2
67.5°	8485.3	6912.5	2155.6	252.8	198.0	166.9	138.2	112.1	88.4	72.2	71.0
70°	7491.6	5583.8	661.2	226.6	205.5	160.6	135.7	102.1	78.5	63.5	61.0
72.5°	5923.8	3730.8	245.3	188.0	176.8	154.4	132.0	92.2	67.2	53.5	51.1
75°	3815.5	1219.1	208.0	145.7	150.7	146.9	122.0	84.7	57.3	43.6	42.3
77.5°	1080.9	255.3	189.3	107.1	133.2	142.0	107.1	71.0	51.1	37.4	36.1
80°	226.6	181.8	173.1	76.0	99.6	92.2	72.2	54.8	48.6	32.4	32.4
82.5°	148.2	144.5	148.2	52.3	66.0	67.2	57.3	47.3	42.3	29.9	29.9
85°	104.6	132.0	71.0	37.4	31.1	28.6	33.6	41.1	37.4	24.9	24.9
87.5°	36.1	21.2	14.9	14.9	13.7	13.7	16.2	18.7	19.9	19.9	18.7
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)