

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: P509865

Luminaire Tested: **VERD-M-CA3-150-760-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-760-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22023 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

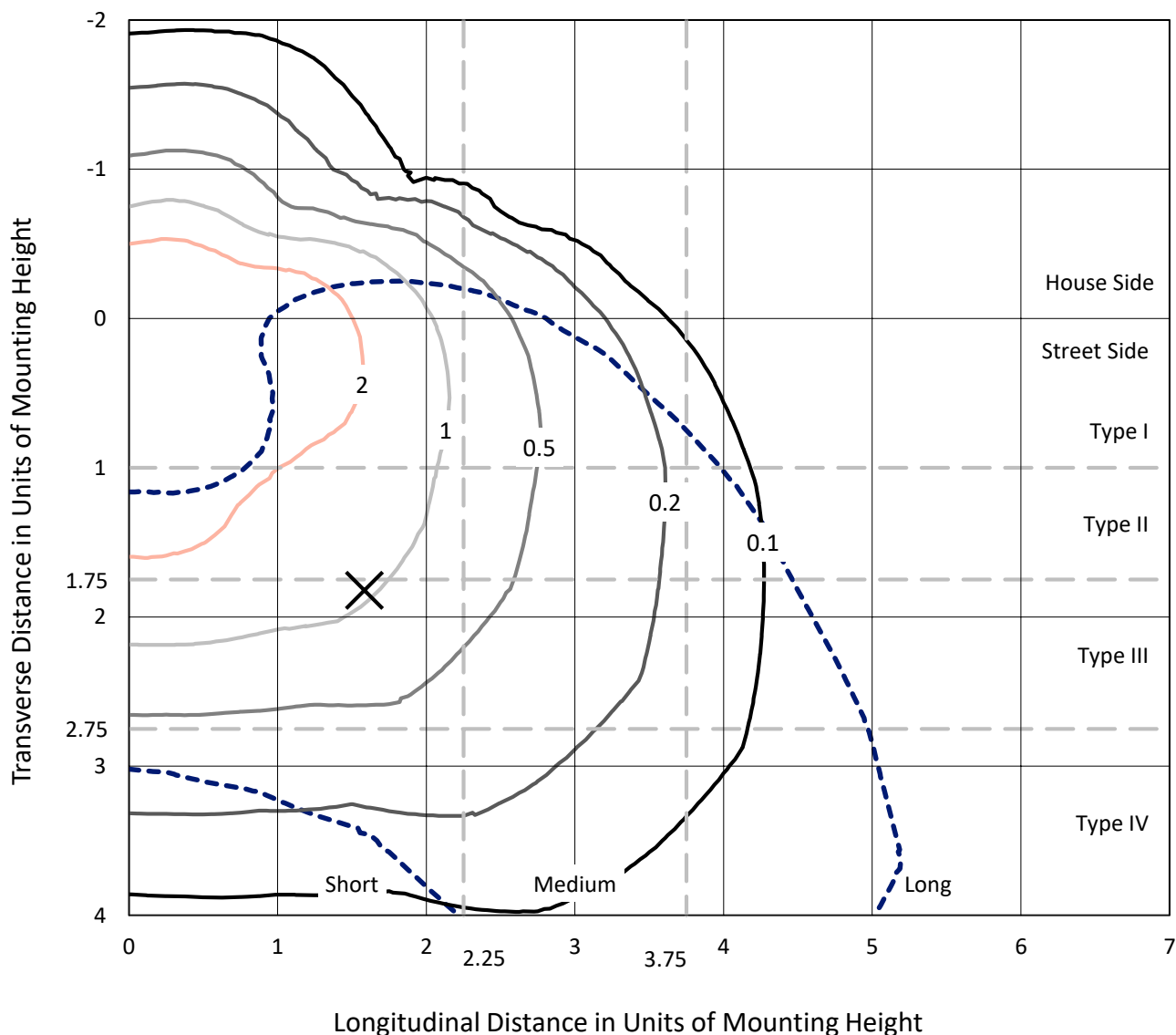
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

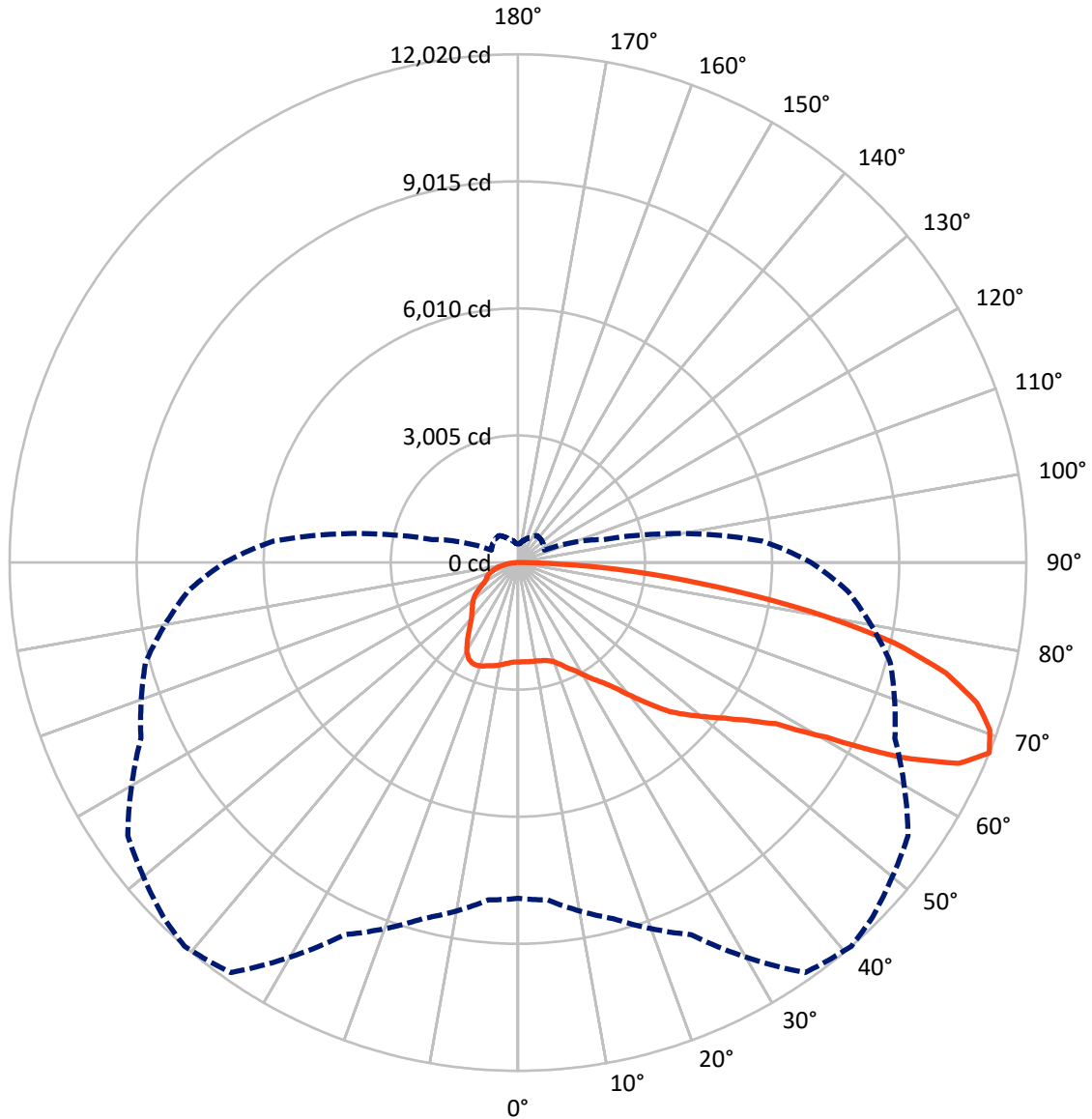
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4983.7	0.0	4983.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	17039.3	0.0	17039.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	22023.0	0.0	22023.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.2	1.0
10°-20°	704.7	3.2
20°-30°	1260.2	5.7
30°-40°	1975.9	9.0
40°-50°	3064.1	13.9
50°-60°	4319.7	19.6
60°-70°	5506.5	25.0
70°-80°	4120.7	18.7
80°-90°	844.0	3.8
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°	22023.0	100.0
0°-180°	22023.0	100.0

**Coefficient of Utilization**



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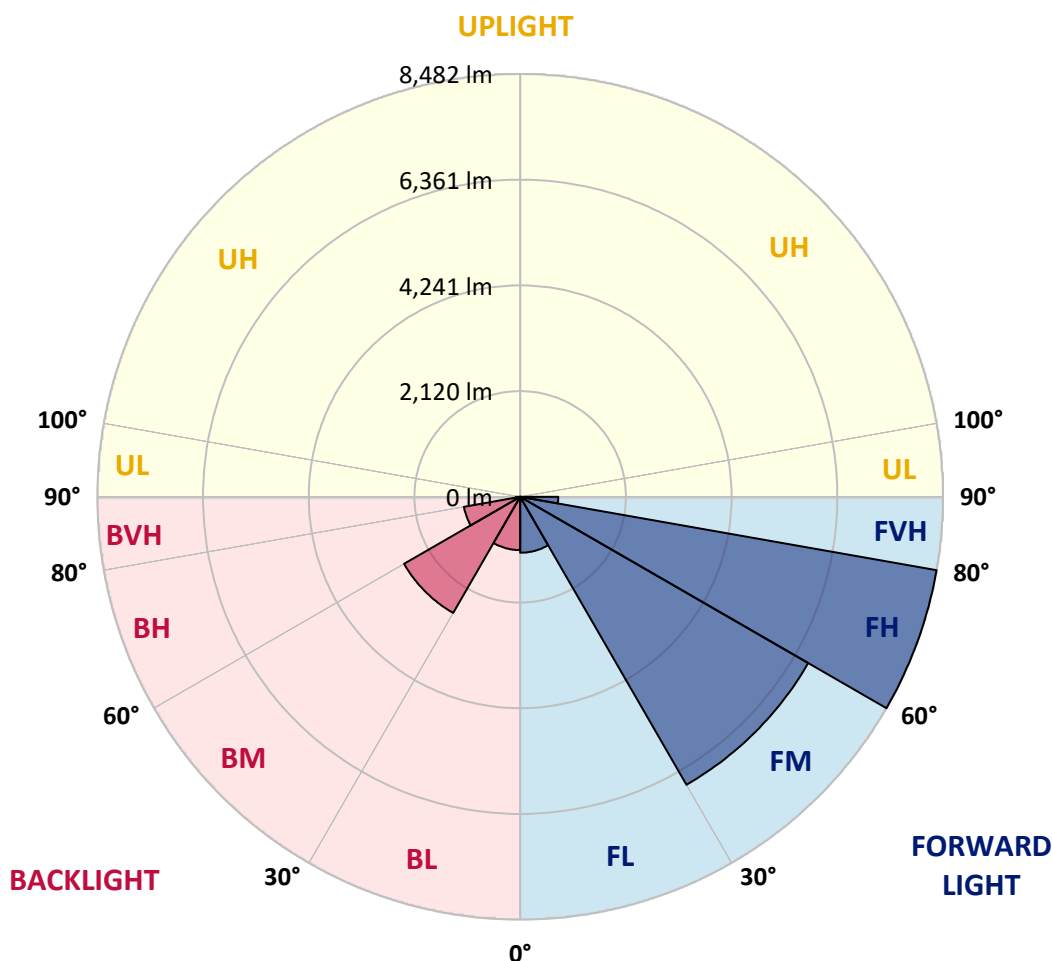
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.1	5.1			
FM	(30°-60°)	6670.6	30.3			
FH	(60°-80°)	8481.5	38.5			G4/12000
FVH	(80°-90°)	765.1	3.5			G5
BL	(0°-30°)	1070.0	4.9	B3/2500		
BM	(30°-60°)	2689.1	12.2	B3/5000		
BH	(60°-80°)	1145.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	78.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3
2.5°	2322.4	2349.3	2345.4	2340.4	2348.3	2349.3	2326.4	2335.4	2340.4	2348.3	2361.3
5°	2328.4	2355.3	2353.3	2344.4	2350.3	2353.3	2332.4	2348.3	2348.3	2351.3	2366.3
7.5°	2315.5	2341.4	2341.4	2338.4	2351.3	2363.3	2344.4	2358.3	2366.3	2374.3	2384.2
10°	2303.5	2325.4	2333.4	2331.4	2361.3	2364.3	2351.3	2385.2	2398.2	2406.2	2418.1
12.5°	2290.5	2317.4	2328.4	2339.4	2371.3	2382.2	2375.3	2410.1	2437.1	2451.0	2464.0
15°	2284.6	2314.5	2332.4	2348.3	2383.2	2403.2	2403.2	2456.0	2487.9	2505.8	2528.8
17.5°	2326.4	2357.3	2371.3	2384.2	2416.1	2443.0	2441.0	2502.8	2549.7	2577.6	2619.5
20°	2430.1	2467.0	2474.9	2479.9	2499.9	2509.8	2506.8	2573.6	2638.4	2691.2	2738.1
22.5°	2610.5	2632.4	2636.4	2616.5	2621.5	2629.4	2624.4	2661.3	2735.1	2796.9	2880.6
25°	2758.0	2792.9	2782.9	2754.0	2758.0	2769.0	2754.0	2810.8	2863.7	2944.4	3029.1
27.5°	2913.5	2939.4	2928.5	2910.5	2906.5	2898.6	2895.6	2968.3	3046.1	3109.9	3235.5
30°	3102.9	3116.8	3084.9	3077.0	3083.9	3088.9	3070.0	3162.7	3233.5	3325.2	3494.6
32.5°	3421.8	3434.8	3389.0	3266.4	3269.3	3292.3	3276.3	3392.9	3526.5	3638.1	3810.6
35°	3828.5	3828.5	3792.6	3620.2	3489.6	3490.6	3494.6	3659.1	3907.3	4157.4	4334.9
37.5°	4240.2	4254.1	4186.4	4028.9	3863.4	3775.7	3701.9	3913.2	4238.2	4796.4	5060.5
40°	4668.8	4690.7	4589.0	4444.5	4254.1	4154.5	4068.7	4197.3	4635.9	5429.3	5638.6
42.5°	5043.6	5074.5	4969.8	4817.3	4684.7	4572.1	4442.5	4494.3	5073.5	6030.3	6149.0
45°	5392.4	5409.4	5320.7	5195.1	5085.4	5023.6	4932.9	4992.7	5573.8	6618.4	6596.5
47.5°	5649.6	5674.5	5593.8	5526.0	5413.4	5376.5	5375.5	5539.9	6137.0	7086.9	6985.2
50°	6067.2	6048.3	5866.9	5784.1	5715.4	5727.3	5756.2	6040.3	6798.8	7538.4	7312.2
52.5°	6767.9	6733.1	6330.4	6157.9	6073.2	6112.1	6127.0	6493.8	7466.7	7928.2	7582.3
55°	7674.0	7562.3	7269.3	6806.8	6540.7	6577.6	6560.6	6981.2	8000.9	8299.9	7782.6
57.5°	8273.0	8377.7	8237.1	7973.0	7312.2	7191.6	7151.7	7463.7	8495.3	8655.8	7990.0
60°	8793.3	8966.8	9190.0	9020.6	8842.2	8390.6	8018.9	8011.9	8930.9	8893.0	8073.7
62.5°	9342.5	9434.2	9778.1	9882.8	10213.7	10131.0	9632.6	8705.6	9366.5	9066.4	8122.5
65°	8787.4	8910.0	9535.9	10107.1	11332.1	11451.7	11289.2	9995.4	9668.5	9155.2	8052.7
67.5°	7942.1	8009.9	8718.6	9709.3	11838.4	12019.8	11856.3	11261.3	9835.9	9116.3	7837.5
70°	6858.6	6938.4	7615.2	8966.8	11812.5	11836.4	11772.6	11377.9	9769.2	8933.9	7295.2
72.5°	5560.9	5661.5	6256.6	7660.0	11246.3	11350.0	11249.3	11146.7	9581.8	8423.5	6361.3
75°	4207.3	4340.8	4872.1	6107.1	9938.6	10460.9	10473.9	10790.8	8854.1	7221.5	4616.9
77.5°	2869.6	2997.2	3500.6	4652.8	8250.1	9084.4	9301.7	9648.5	7397.9	5336.6	2518.8
80°	1615.7	1603.8	2242.7	3324.2	6292.5	7025.1	7298.2	7284.3	5195.1	2740.1	513.3
82.5°	746.6	748.6	1147.3	2122.1	4260.1	4743.5	4854.2	4225.2	1823.1	464.5	163.5
85°	371.8	375.8	552.2	1064.5	2405.2	2778.9	2641.4	1758.3	390.7	135.6	97.7
87.5°	147.5	141.5	218.3	437.6	868.2	920.0	803.4	351.9	70.8	47.8	32.9
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°	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3	2351.3
2.5°	2358.3	2360.3	2369.3	2351.3	2356.3	2352.3	2349.3	2365.3	2364.3	2367.3	2362.3
5°	2365.3	2370.3	2379.2	2371.3	2379.2	2375.3	2378.2	2400.2	2403.2	2402.2	2402.2
7.5°	2384.2	2389.2	2406.2	2396.2	2414.1	2409.1	2410.1	2431.1	2435.1	2429.1	2427.1
10°	2424.1	2428.1	2452.0	2450.0	2457.0	2453.0	2449.0	2458.0	2456.0	2447.0	2443.0
12.5°	2469.9	2480.9	2507.8	2508.8	2517.8	2497.9	2476.9	2473.9	2468.0	2454.0	2451.0
15°	2538.7	2551.7	2592.5	2582.6	2576.6	2533.7	2498.9	2470.9	2447.0	2435.1	2424.1
17.5°	2637.4	2659.3	2716.1	2685.2	2641.4	2578.6	2517.8	2457.0	2406.2	2363.3	2346.4
20°	2763.0	2787.9	2835.8	2794.9	2728.1	2634.4	2535.7	2426.1	2315.5	2220.8	2206.8
22.5°	2912.5	2952.4	2987.3	2893.6	2794.9	2676.3	2535.7	2378.2	2194.8	2053.3	2018.4
25°	3086.9	3117.8	3106.9	2975.3	2832.8	2683.3	2507.8	2293.5	2034.4	1869.9	1842.0
27.5°	3276.3	3290.3	3205.6	3014.2	2836.8	2642.4	2429.1	2143.0	1847.0	1717.4	1690.5
30°	3509.6	3467.7	3306.2	3038.1	2796.9	2551.7	2288.5	1922.7	1694.5	1580.8	1549.9
32.5°	3760.7	3684.0	3378.0	3021.2	2709.2	2400.2	2071.2	1767.2	1592.8	1454.3	1428.3
35°	4239.2	4020.9	3482.6	2970.3	2556.7	2197.8	1860.9	1647.6	1485.2	1336.6	1312.7
37.5°	4885.1	4505.3	3629.2	2899.5	2376.3	2001.5	1704.4	1520.0	1379.5	1226.0	1188.1
40°	5387.4	4994.7	3864.4	2823.8	2209.8	1815.1	1590.8	1453.3	1309.7	1146.3	1113.4
42.5°	5865.9	5442.3	4153.5	2739.1	2038.4	1685.5	1541.0	1438.3	1290.8	1124.3	1093.4
45°	6288.5	5804.1	4402.6	2654.3	1845.0	1565.9	1504.1	1409.4	1263.9	1096.4	1066.5
47.5°	6630.4	6115.1	4618.9	2562.6	1669.6	1475.2	1456.3	1356.6	1212.0	1039.6	1003.7
50°	6939.4	6378.2	4768.5	2465.0	1498.1	1401.4	1377.5	1259.9	1109.4	956.9	934.0
52.5°	7129.8	6556.6	4858.2	2480.9	1335.6	1318.7	1279.8	1159.2	1019.7	889.1	859.2
55°	7329.1	6725.1	4857.2	2391.2	1200.1	1194.1	1157.2	1064.5	954.9	845.2	827.3
57.5°	7410.8	6740.0	4766.5	1969.6	1080.5	1042.6	1034.6	985.8	890.1	786.4	766.5
60°	7465.7	6674.2	4595.0	1344.6	930.0	903.1	941.9	909.0	822.3	713.7	693.7
62.5°	7411.8	6602.5	4145.5	970.8	815.3	830.3	867.2	831.3	740.6	641.9	625.0
65°	7283.3	6328.4	3273.3	756.5	764.5	797.4	826.3	766.5	600.0	502.4	492.4
67.5°	6932.4	5807.1	2106.1	693.7	735.6	769.5	779.5	648.9	543.2	449.5	438.6
70°	6193.8	4661.8	811.4	653.9	706.7	721.6	680.8	595.1	499.4	418.6	408.7
72.5°	4845.2	3061.0	468.5	598.1	644.9	630.9	631.9	534.3	450.5	373.8	365.8
75°	3011.2	1108.4	416.6	532.3	546.2	572.1	539.2	463.5	387.7	341.9	331.9
77.5°	995.8	315.0	385.7	458.5	489.4	470.5	451.5	395.7	331.9	296.0	291.1
80°	241.2	236.2	345.9	358.8	383.7	351.9	349.9	328.9	280.1	259.2	254.2
82.5°	148.5	169.4	275.1	223.3	256.2	259.2	295.0	271.1	204.3	212.3	205.3
85°	91.7	130.6	144.5	107.6	108.6	145.5	176.4	163.5	122.6	115.6	114.6
87.5°	30.9	26.9	30.9	22.9	30.9	52.8	79.7	75.8	50.8	34.9	32.9
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)