

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: P302918

Luminaire Tested: **GAA-AF-07-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-07-LED-U-T4W-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23848.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 226  
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

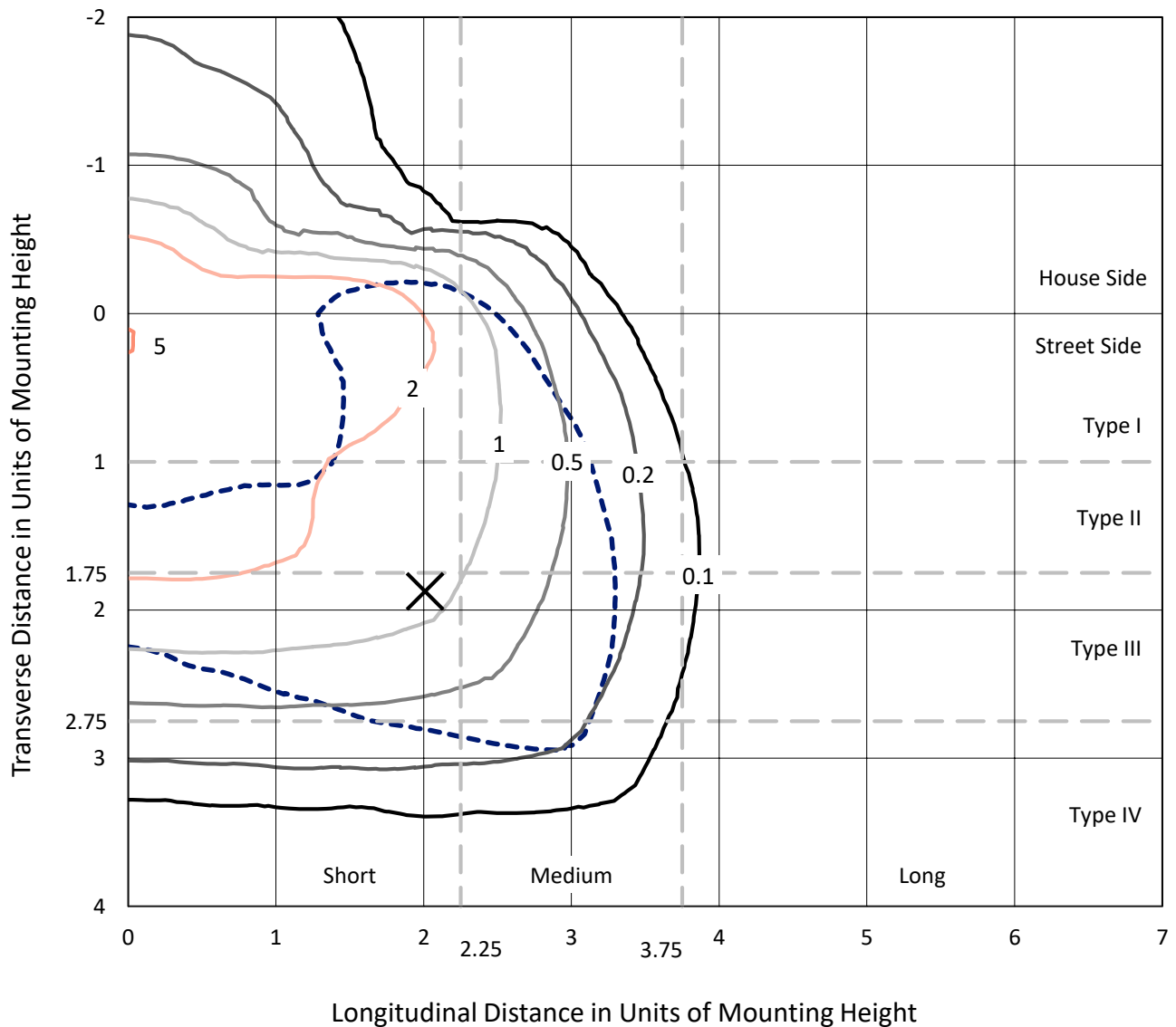


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

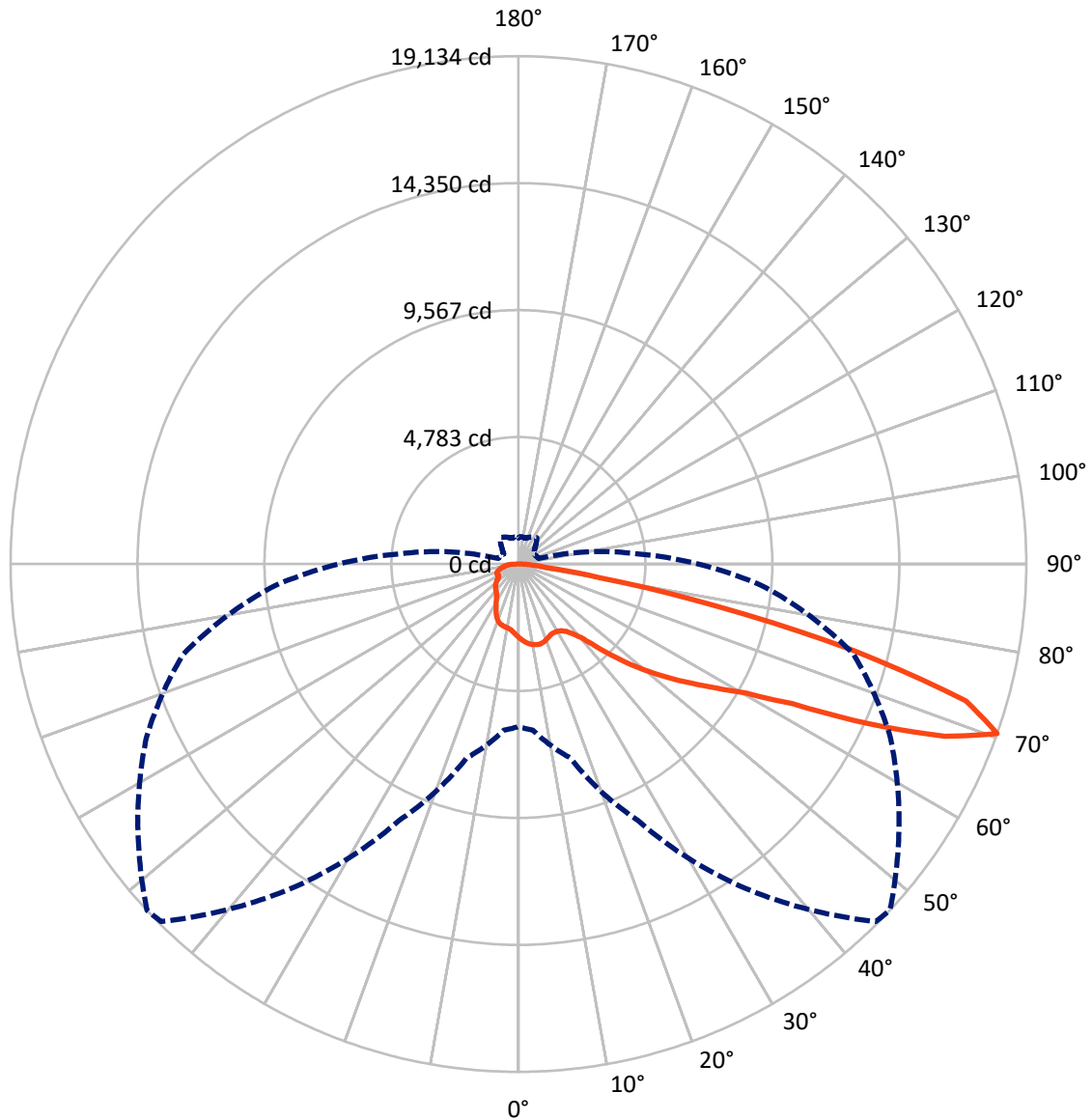


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4975.3	0.0	4975.3
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	18873.2	0.0	18873.2
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	23848.5	0.0	23848.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.1	1.1
10°-20°	777.9	3.3
20°-30°	1148.7	4.8
30°-40°	1669.6	7.0
40°-50°	3004.7	12.6
50°-60°	5205.3	21.8
60°-70°	7429.4	31.2
70°-80°	3813.9	16.0
80°-90°	533.9	2.2
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°	23848.5	100.0
0°-180°	23848.5	100.0



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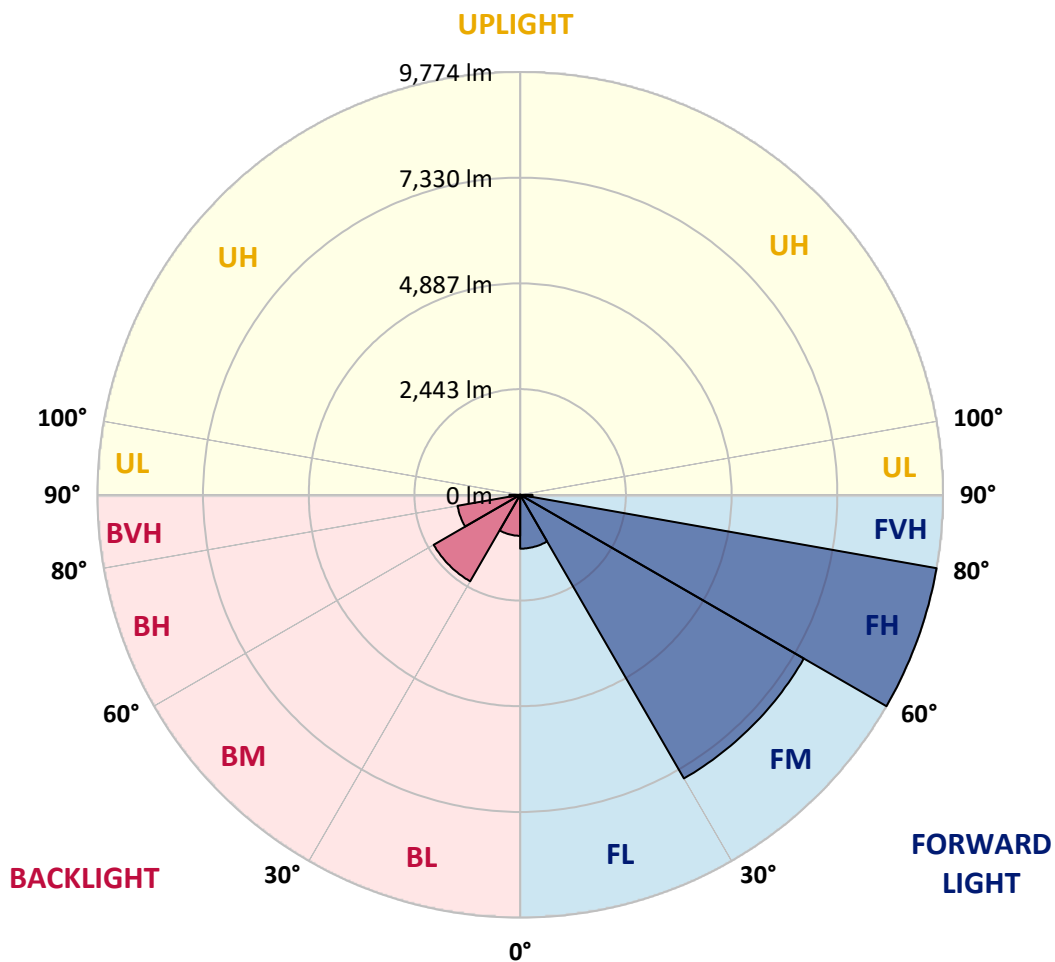
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.4	5.2			
FM	(30°-60°)	7570.2	31.7			
FH	(60°-80°)	9773.7	41.0			G4/12000
FVH	(80°-90°)	284.9	1.2			G3/500
BL	(0°-30°)	947.3	4.0	B2/1000		
BM	(30°-60°)	2309.4	9.7	B2/2500		
BH	(60°-80°)	1469.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	249.0	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1
2.5°	2929.7	2923.9	2921.6	2917.0	2911.2	2881.9	2876.2	2855.3	2826.4	2796.0	2764.8
5°	3122.4	3121.2	3108.1	3085.0	3048.0	2984.0	2969.0	2918.2	2849.6	2783.3	2717.4
7.5°	3291.5	3281.1	3256.9	3210.2	3145.5	3058.4	3037.6	2966.7	2872.7	2782.1	2692.7
10°	3415.6	3409.8	3356.7	3292.7	3207.9	3111.6	3087.3	3008.3	2905.1	2790.2	2678.9
12.5°	3486.5	3475.0	3413.3	3337.0	3236.1	3142.0	3117.4	3037.6	2921.6	2790.2	2659.2
15°	3481.9	3473.8	3412.2	3328.5	3226.8	3144.3	3122.4	3042.2	2918.2	2778.7	2633.8
17.5°	3389.0	3392.5	3340.5	3258.0	3174.4	3111.6	3091.9	3018.0	2894.6	2755.5	2603.7
20°	3226.8	3243.0	3207.9	3135.1	3088.5	3045.7	3033.0	2970.2	2858.8	2722.0	2571.0
22.5°	3064.2	3079.2	3065.4	3003.7	2996.8	2971.3	2964.4	2919.3	2827.6	2701.2	2551.3
25°	2944.7	2958.6	2956.3	2902.7	2923.9	2922.8	2917.0	2894.6	2820.7	2701.2	2554.8
27.5°	2912.4	2917.0	2912.4	2863.4	2892.3	2915.8	2911.2	2907.4	2841.5	2734.7	2599.1
30°	3023.7	3016.8	2980.6	2881.9	2908.9	2941.3	2936.6	2939.0	2903.9	2823.0	2697.7
32.5°	3468.0	3436.4	3322.8	3045.7	2974.8	2992.1	2994.5	3033.0	3038.8	2958.6	2850.7
35°	4132.7	4098.1	3950.5	3484.2	3180.2	3120.1	3120.1	3177.9	3212.6	3153.6	3088.5
37.5°	4837.1	4798.6	4720.0	4092.3	3611.8	3341.6	3335.9	3376.3	3426.0	3440.3	3456.5
40°	5637.5	5597.0	5619.0	4774.3	4214.0	3725.4	3643.0	3614.1	3748.6	3838.0	3968.2
42.5°	6513.7	6494.8	6502.9	5534.2	4899.6	4300.0	4182.8	4032.9	4195.5	4354.3	4627.1
45°	7324.5	7340.7	7332.6	6347.6	5663.3	5000.5	4876.4	4586.3	4745.4	5017.9	5462.5
47.5°	8034.7	7967.2	8071.6	7236.2	6518.4	5785.1	5631.7	5243.3	5404.3	5740.7	6492.5
50°	8896.6	8887.4	8734.4	8422.3	7551.8	6572.7	6371.9	5921.9	6172.3	6640.1	7791.1
52.5°	9803.0	9634.6	9494.3	9344.4	8648.5	7380.4	7134.1	6598.1	7075.2	7663.2	9373.7
55°	9988.3	9913.2	10087.0	10339.0	9705.5	8219.2	7932.5	7446.2	8091.7	8833.1	11198.6
57.5°	10385.2	10384.0	10744.0	11192.9	10793.7	9109.0	8820.0	8470.9	9234.2	10172.9	13136.1
60°	10653.4	10728.5	11397.1	12268.3	11862.2	10137.0	9871.2	9653.1	10533.9	11670.7	14941.4
62.5°	10793.7	10895.8	11807.9	12704.5	13372.7	11848.3	11582.8	11268.4	12253.3	13313.8	15997.2
65°	10210.3	10410.6	11743.9	13081.8	14695.6	14622.4	14502.9	13950.7	14403.1	14612.0	15615.8
67.5°	8594.9	8800.3	10352.8	12730.0	15640.0	17298.1	17323.6	16380.3	15726.0	14723.3	13129.2
70°	6123.8	6284.8	7569.6	10673.1	14920.6	19046.4	19133.5	17499.7	15462.4	13057.1	9172.9
72.5°	2907.4	3006.0	4222.1	6946.5	11840.2	17451.1	17619.5	16070.5	13147.7	9666.9	5004.0
75°	1068.5	1098.6	1426.9	2955.1	6867.5	12869.5	13067.9	11520.0	8715.5	4812.9	1906.3
77.5°	640.4	660.1	800.7	1247.3	2701.2	7356.1	7649.3	6265.2	3809.1	1791.4	937.5
80°	447.8	461.6	574.2	776.1	1276.2	2803.3	3064.2	2557.1	1517.5	1133.7	682.0
82.5°	302.9	309.8	403.8	524.4	848.1	1001.1	1080.1	1137.1	1023.5	843.5	432.7
85°	198.4	205.4	274.0	345.6	539.5	517.5	529.1	669.3	747.2	573.0	240.1
87.5°	113.7	118.3	164.9	184.6	264.7	219.3	221.6	352.6	478.2	386.5	146.0
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°	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1	2767.1
2.5°	2756.7	2741.7	2708.1	2687.0	2667.3	2662.7	2654.6	2653.4	2652.3	2652.3	2648.8
5°	2695.0	2669.6	2617.6	2588.3	2564.0	2561.7	2560.6	2566.3	2568.7	2571.0	2567.5
7.5°	2655.7	2621.1	2555.9	2514.3	2485.4	2478.1	2490.0	2516.6	2534.0	2540.9	2537.4
10°	2631.5	2588.3	2513.2	2467.7	2443.4	2440.0	2455.0	2486.6	2522.4	2536.3	2535.1
12.5°	2603.7	2554.8	2474.6	2427.2	2413.4	2420.3	2440.0	2468.9	2506.2	2528.2	2529.3
15°	2575.6	2518.9	2436.5	2394.9	2389.1	2398.3	2416.8	2438.8	2467.7	2490.0	2492.4
17.5°	2542.1	2482.7	2400.6	2357.5	2352.9	2357.5	2358.6	2370.2	2389.1	2409.9	2415.7
20°	2506.2	2445.7	2359.8	2317.0	2296.2	2277.7	2256.5	2258.8	2264.6	2285.8	2290.4
22.5°	2480.4	2420.3	2328.6	2269.2	2213.8	2157.9	2116.3	2110.5	2112.8	2130.1	2135.9
25°	2482.7	2419.1	2320.5	2218.4	2096.6	2007.2	1951.3	1942.1	1940.9	1953.7	1962.1
27.5°	2528.2	2464.2	2350.6	2166.0	1969.1	1836.5	1777.6	1770.6	1761.4	1764.8	1774.1
30°	2629.2	2569.8	2423.8	2112.8	1830.7	1669.7	1608.0	1601.1	1588.4	1582.6	1589.5
32.5°	2793.7	2745.1	2530.5	2061.6	1692.8	1526.7	1464.3	1449.3	1441.2	1434.2	1440.0
35°	3067.7	3046.9	2673.1	2006.1	1571.0	1416.5	1359.9	1336.7	1325.2	1337.9	1347.1
37.5°	3496.9	3508.5	2860.0	1919.0	1477.0	1343.7	1295.9	1269.3	1252.0	1262.4	1272.8
40°	4105.0	4113.1	3066.5	1796.1	1395.7	1300.5	1249.6	1225.4	1200.7	1182.2	1181.1
42.5°	4903.0	4820.9	3269.6	1662.7	1301.7	1273.9	1217.3	1186.8	1149.8	1098.6	1088.2
45°	5849.8	5561.2	3423.7	1509.4	1196.1	1241.6	1181.1	1139.4	1081.3	1025.8	1020.0
47.5°	6940.7	6355.7	3499.2	1350.6	1097.4	1193.8	1137.1	1070.9	997.6	969.9	966.4
50°	8272.4	7299.0	3535.1	1196.1	1011.9	1131.3	1073.2	995.3	934.1	928.3	924.8
52.5°	9789.1	8433.9	3547.0	1069.7	941.0	1050.0	1021.1	945.6	896.7	901.7	901.7
55°	11376.3	9605.7	3389.0	978.0	875.9	966.4	986.1	926.0	885.1	904.0	910.9
57.5°	12833.2	10644.2	2892.3	907.5	814.6	902.8	973.4	944.5	916.7	991.9	996.5
60°	13951.9	11257.6	2160.2	843.5	769.1	880.5	1007.3	1015.4	1022.3	1201.9	1226.5
62.5°	14186.2	11053.8	1485.1	793.8	748.3	899.4	1068.5	1069.7	1061.6	1186.8	1201.9
65°	13110.7	9762.1	1080.1	765.7	731.0	932.9	1120.9	1096.3	1043.1	1138.3	1110.2
67.5°	10411.8	7354.9	899.4	744.9	705.6	930.6	1176.4	1120.9	1032.7	1115.2	1069.7
70°	6758.4	4447.2	800.7	727.5	675.1	886.3	1208.8	1118.6	1002.3	1037.3	983.8
72.5°	3297.3	1988.7	734.5	702.1	643.9	825.0	1207.6	1097.4	971.0	968.7	939.8
75°	1290.1	910.9	674.0	663.5	590.7	755.3	1175.3	1067.4	934.1	896.7	886.3
77.5°	755.3	649.7	597.7	606.9	526.8	685.5	1127.9	1015.4	882.8	838.9	827.3
80°	549.9	486.3	509.4	524.4	450.1	616.2	1063.9	951.4	826.2	848.1	831.9
82.5°	352.6	313.3	413.1	428.1	374.9	545.3	994.2	884.0	746.0	677.4	661.2
85°	180.0	198.4	307.5	326.0	289.0	447.8	909.8	794.9	655.5	563.7	573.0
87.5°	101.0	135.6	196.1	219.3	204.2	344.5	737.9	655.5	534.8	435.0	383.0
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)