

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: P478054

Luminaire Tested: **IFLD-S-SA6A-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478054  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

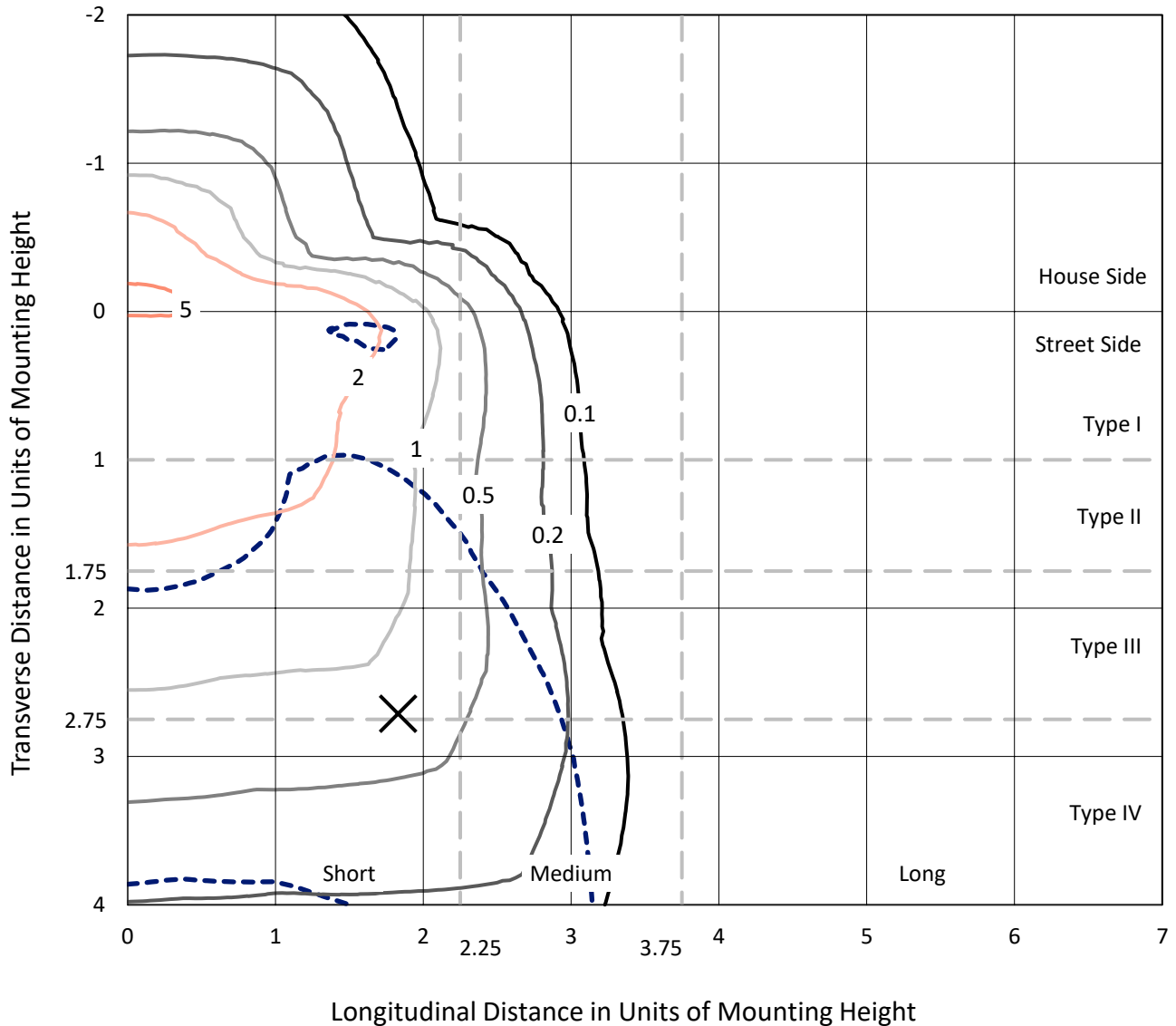
Lumens per Lamp: N/A  
Luminaire Lumens: 23124.5 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
Input Voltage (V): 120  
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

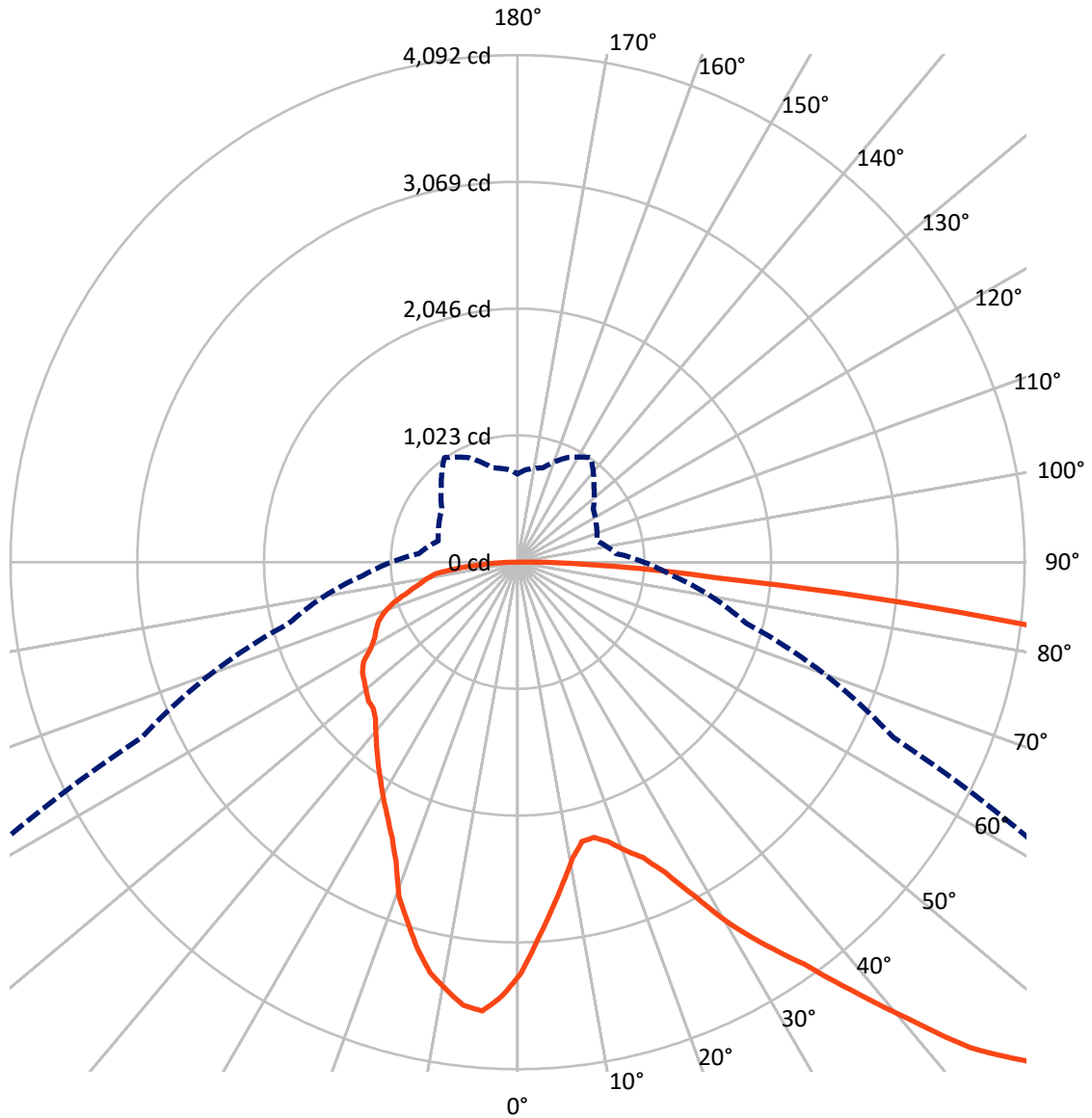
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4995.2	0.0	4995.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18129.3	0.0	18129.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	23124.5	0.0	23124.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.0	1.3
10°-20°	856.3	3.7
20°-30°	1409.4	6.1
30°-40°	2107.7	9.1
40°-50°	3124.6	13.5
50°-60°	4502.9	19.5
60°-70°	5746.3	24.8
70°-80°	4471.5	19.3
80°-90°	599.9	2.6
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°	23124.5	100.0
0°-180°	23124.5	100.0

**Coefficient of Utilization**



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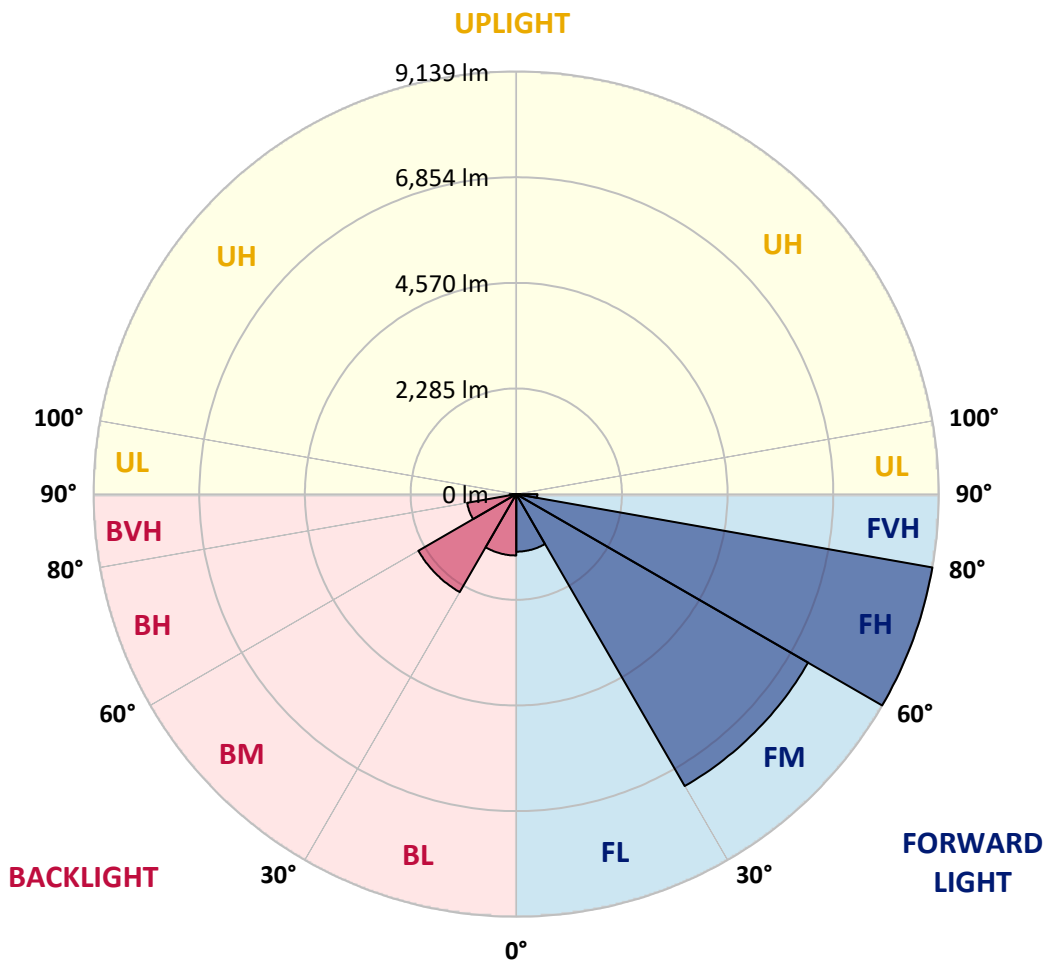
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1244.5	5.4			
FM (30°-60°)	7289.0	31.5			
FH (60°-80°)	9139.2	39.5			G4/12000
FVH (80°-90°)	456.6	2.0			G3/500
BL (0°-30°)	1327.2	5.7	B3/2500		
BM (30°-60°)	2446.2	10.6	B2/2500		
BH (60°-80°)	1078.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	143.3	0.6			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3
2.5°	2970.5	2980.3	3012.1	3019.4	3053.7	3034.1	3075.7	3149.0	3190.6	3251.7	3325.0
5°	2735.8	2694.3	2713.8	2789.6	2828.7	2838.5	2882.5	3007.2	3085.4	3175.9	3312.8
7.5°	2459.6	2452.2	2491.3	2540.2	2618.5	2625.8	2723.6	2833.6	2995.0	3195.5	3356.8
10°	2271.3	2303.1	2325.1	2376.4	2430.2	2430.2	2554.9	2745.6	2929.0	3122.1	3366.6
12.5°	2261.5	2242.0	2246.8	2273.7	2312.9	2361.8	2479.1	2650.3	2882.5	3107.4	3408.2
15°	2293.3	2300.6	2256.6	2290.9	2305.5	2322.6	2452.2	2645.4	2853.2	3158.8	3479.1
17.5°	2462.0	2420.4	2352.0	2320.2	2371.5	2371.5	2459.6	2611.1	2858.1	3185.7	3581.8
20°	2594.0	2594.0	2481.6	2447.3	2484.0	2476.7	2537.8	2650.3	2882.5	3239.5	3696.7
22.5°	2816.5	2848.3	2662.5	2591.6	2589.1	2608.7	2662.5	2757.8	2951.0	3315.3	3806.7
25°	3136.8	3144.1	2929.0	2855.6	2777.4	2809.2	2818.9	2914.3	3012.1	3403.3	3931.4
27.5°	3493.7	3488.8	3290.8	3107.4	3056.1	3063.4	3009.6	3073.2	3102.6	3430.2	4109.8
30°	3889.8	3845.8	3696.7	3437.5	3395.9	3349.5	3232.1	3229.7	3290.8	3581.8	4356.8
32.5°	4149.0	4092.7	3990.0	3804.2	3689.3	3694.2	3508.4	3506.0	3452.2	3748.0	4571.9
35°	4403.2	4317.7	4290.8	4100.1	3985.2	3997.4	3848.2	3828.7	3730.9	3999.8	4926.4
37.5°	4708.8	4633.1	4674.6	4530.4	4388.6	4329.9	4261.4	4237.0	4109.8	4354.3	5410.5
40°	5046.2	5021.8	4994.9	4924.0	4838.4	4843.3	4770.0	4745.5	4557.3	4782.2	5875.1
42.5°	5501.0	5408.1	5268.7	5315.2	5359.2	5405.6	5381.2	5317.6	5122.0	5217.4	6393.4
45°	5923.9	5801.7	5545.0	5559.7	5740.6	5777.3	6073.1	6065.8	5672.1	5769.9	6982.6
47.5°	6210.0	6153.8	5999.7	5982.6	6241.8	6239.3	6772.3	6772.3	6251.6	6320.0	7615.8
50°	6635.4	6488.7	6422.7	6508.3	6640.3	6730.8	7486.2	7532.7	6821.2	6894.6	8444.6
52.5°	7134.2	6950.8	6784.5	7004.6	7239.3	7298.0	8192.8	8173.2	7258.9	7562.0	9415.2
55°	7547.4	7454.4	7339.5	7466.7	7850.5	7923.9	8901.8	8720.9	7696.5	8114.6	9882.2
57.5°	8029.0	8085.2	8109.7	8077.9	8535.1	8650.0	9711.1	9192.8	8073.0	8486.2	10156.0
60°	8755.1	8789.4	8821.1	8896.9	9381.0	9542.4	10351.6	9784.4	8310.2	8701.3	10178.0
62.5°	9860.2	9728.2	9799.1	10060.7	10449.4	10632.8	11295.4	10200.0	8491.1	8830.9	9459.2
65°	11124.2	10945.7	10872.4	11209.8	12217.1	12070.4	12473.8	10510.5	8229.5	8346.8	8021.7
67.5°	12405.3	12424.9	12236.6	12913.9	14148.5	14148.5	13569.1	10659.7	7520.5	6765.0	5625.7
70°	13422.4	13483.5	13586.2	14899.1	16855.0	17150.8	14926.0	10048.5	6075.5	4503.5	3075.7
72.5°	13407.7	13224.4	13750.0	16168.0	19314.6	19067.6	15209.6	7945.9	3792.0	2205.3	1410.7
73°	13107.0	12953.0	13527.5	16155.8	19414.8	19182.5	15001.8	7324.9	3344.6	1911.9	1254.2
75°	10703.7	10425.0	11402.9	14632.6	17962.5	18141.0	12745.2	4777.3	1833.7	1178.4	882.6
77.5°	4880.0	5002.2	6276.0	9816.2	13842.9	14053.2	8378.6	2065.9	1004.8	826.4	650.3
80°	1567.2	1645.4	2442.4	4880.0	8676.9	9055.8	3872.7	938.8	716.4	633.2	486.5
82.5°	599.0	596.6	1024.4	2029.3	4112.3	4354.3	1415.6	572.1	533.0	467.0	344.7
85°	210.3	220.0	386.3	801.9	1618.5	1694.3	491.4	317.8	369.2	312.9	198.0
87.5°	73.3	75.8	136.9	290.9	557.4	589.2	136.9	127.1	183.4	180.9	100.2
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°	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3
2.5°	3349.5	3371.5	3378.8	3466.8	3466.8	3466.8	3501.1	3501.1	3491.3	3466.8	3525.5
5°	3364.2	3403.3	3479.1	3554.9	3574.4	3591.5	3638.0	3598.9	3613.5	3589.1	3611.1
7.5°	3405.7	3459.5	3601.3	3647.8	3616.0	3652.7	3603.8	3576.9	3550.0	3559.7	3525.5
10°	3476.6	3545.1	3611.1	3696.7	3635.5	3598.9	3498.6	3474.2	3388.6	3359.3	3386.2
12.5°	3564.6	3647.8	3760.2	3728.4	3611.1	3506.0	3398.4	3295.7	3244.4	3171.0	3190.6
15°	3652.7	3748.0	3765.1	3711.3	3564.6	3432.6	3237.0	3092.8	3041.4	2975.4	3009.6
17.5°	3748.0	3838.5	3809.1	3669.8	3471.7	3271.3	3048.8	2907.0	2799.4	2757.8	2757.8
20°	3889.8	3933.8	3887.4	3601.3	3359.3	3095.2	2880.1	2718.7	2611.1	2594.0	2567.1
22.5°	3999.8	4070.7	3862.9	3501.1	3195.5	2865.4	2618.5	2557.3	2525.6	2498.7	2464.4
25°	4141.6	4139.2	3818.9	3408.2	2914.3	2591.6	2442.4	2437.5	2422.9	2413.1	2459.6
27.5°	4276.1	4219.9	3767.6	3178.3	2623.4	2383.8	2303.1	2356.9	2378.9	2364.2	2383.8
30°	4488.8	4395.9	3694.2	2933.9	2366.6	2173.5	2188.2	2261.5	2298.2	2320.2	2290.9
32.5°	4713.7	4571.9	3542.6	2679.6	2139.3	2041.5	2075.7	2151.5	2195.5	2220.0	2246.8
35°	5038.9	4708.8	3388.6	2347.1	1975.5	1960.8	1980.4	2021.9	2085.5	2102.6	2109.9
37.5°	5439.9	4916.7	3180.8	2080.6	1848.3	1865.4	1885.0	1899.7	1902.1	1933.9	1921.7
40°	5840.8	5092.7	2877.6	1826.3	1716.3	1809.2	1799.4	1772.5	1750.5	1721.2	1713.9
42.5°	6192.9	5246.7	2540.2	1611.2	1599.0	1750.5	1718.8	1650.3	1599.0	1576.9	1540.3
45°	6589.0	5464.3	2200.4	1476.7	1508.5	1679.6	1669.9	1564.7	1498.7	1420.5	1410.7
47.5°	7102.4	5691.7	1875.2	1337.4	1422.9	1652.7	1657.6	1523.2	1427.8	1322.7	1308.0
50°	7760.1	6019.3	1628.3	1278.7	1371.6	1613.6	1621.0	1466.9	1342.2	1234.7	1224.9
52.5°	8390.8	6354.2	1422.9	1188.2	1337.4	1567.2	1584.3	1415.6	1271.3	1136.9	1144.2
55°	8708.7	6232.0	1246.9	1122.2	1259.1	1491.4	1554.9	1378.9	1163.8	1070.9	1068.4
57.5°	8779.6	5931.3	1107.5	1053.7	1193.1	1410.7	1506.0	1268.9	1114.9	1036.6	1026.9
60°	8547.3	5405.6	997.5	980.4	1110.0	1327.6	1393.6	1210.2	1066.0	1002.4	987.7
62.5°	7975.2	4860.4	921.7	946.2	1039.1	1237.1	1322.7	1168.7	1019.5	975.5	943.7
65°	6540.1	3997.4	860.6	880.2	965.7	1149.1	1278.7	1122.2	978.0	936.4	933.9
67.5°	4530.4	2755.4	811.7	848.4	907.1	1085.5	1234.7	1070.9	924.2	909.5	889.9
70°	2320.2	1469.4	748.1	777.5	843.5	1004.8	1156.4	1017.1	867.9	865.5	841.0
72.5°	1176.0	860.6	674.8	718.8	765.2	899.7	1058.6	946.2	797.0	770.1	731.0
73°	1017.1	797.0	662.6	701.7	745.7	870.4	1029.3	929.1	787.3	748.1	711.5
75°	740.8	628.3	594.1	633.2	667.5	784.8	931.5	850.8	723.7	682.1	647.9
77.5°	555.0	484.1	493.9	537.9	567.2	677.2	828.8	770.1	655.2	599.0	584.3
80°	408.3	369.2	408.3	449.9	471.9	596.6	755.5	667.5	552.5	489.0	476.8
82.5°	290.9	268.9	315.4	342.3	352.1	493.9	679.7	533.0	418.1	334.9	308.1
85°	166.3	163.8	212.7	210.3	217.6	288.5	447.4	354.5	268.9	205.4	200.5
87.5°	73.3	80.7	107.6	85.6	90.5	136.9	190.7	132.0	110.0	61.1	46.5
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)