

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: P480809

Luminaire Tested: **IFLD-S-SA3B-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480809  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

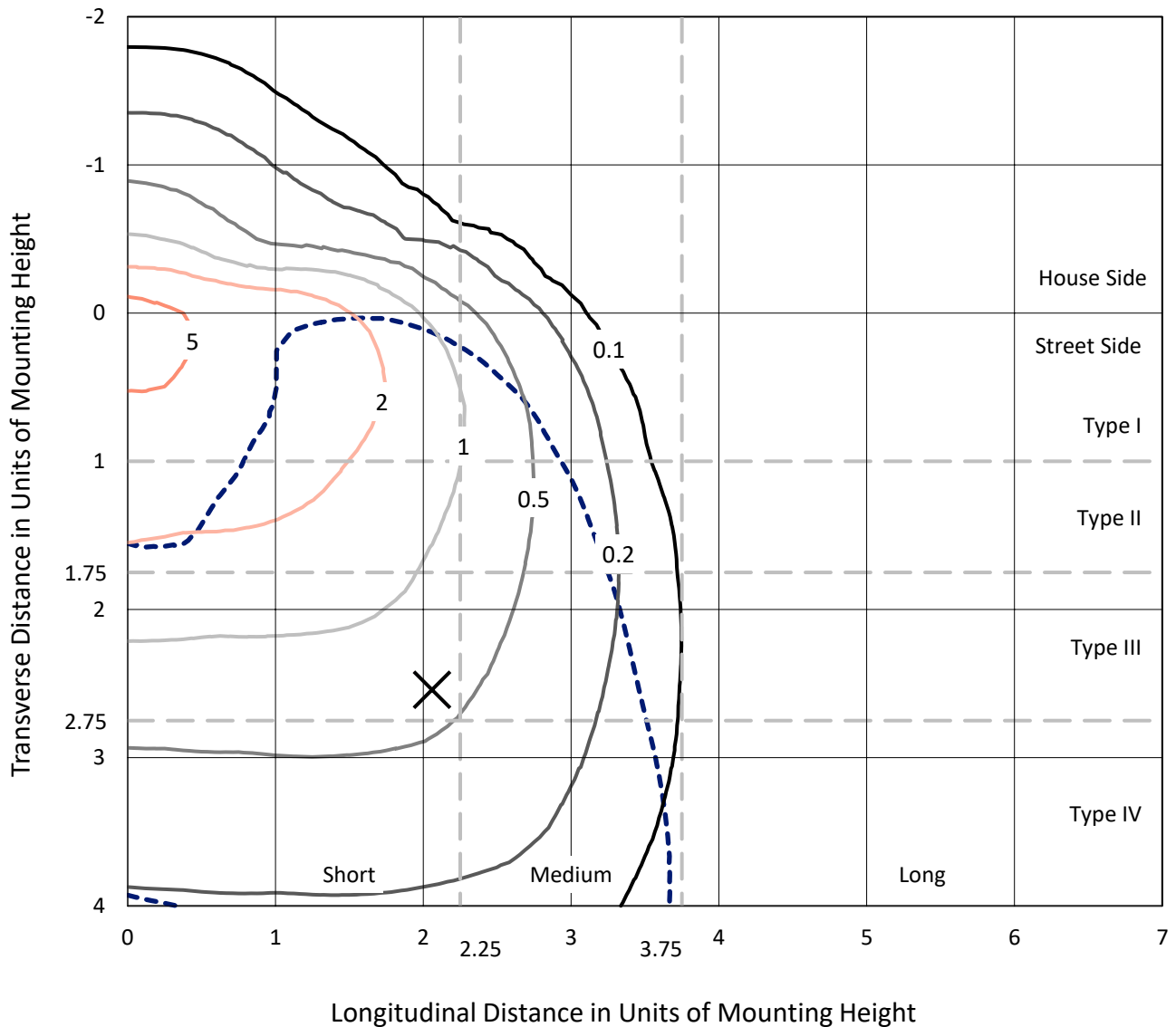
Lumens per Lamp: N/A  
Luminaire Lumens: 14987.7 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
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

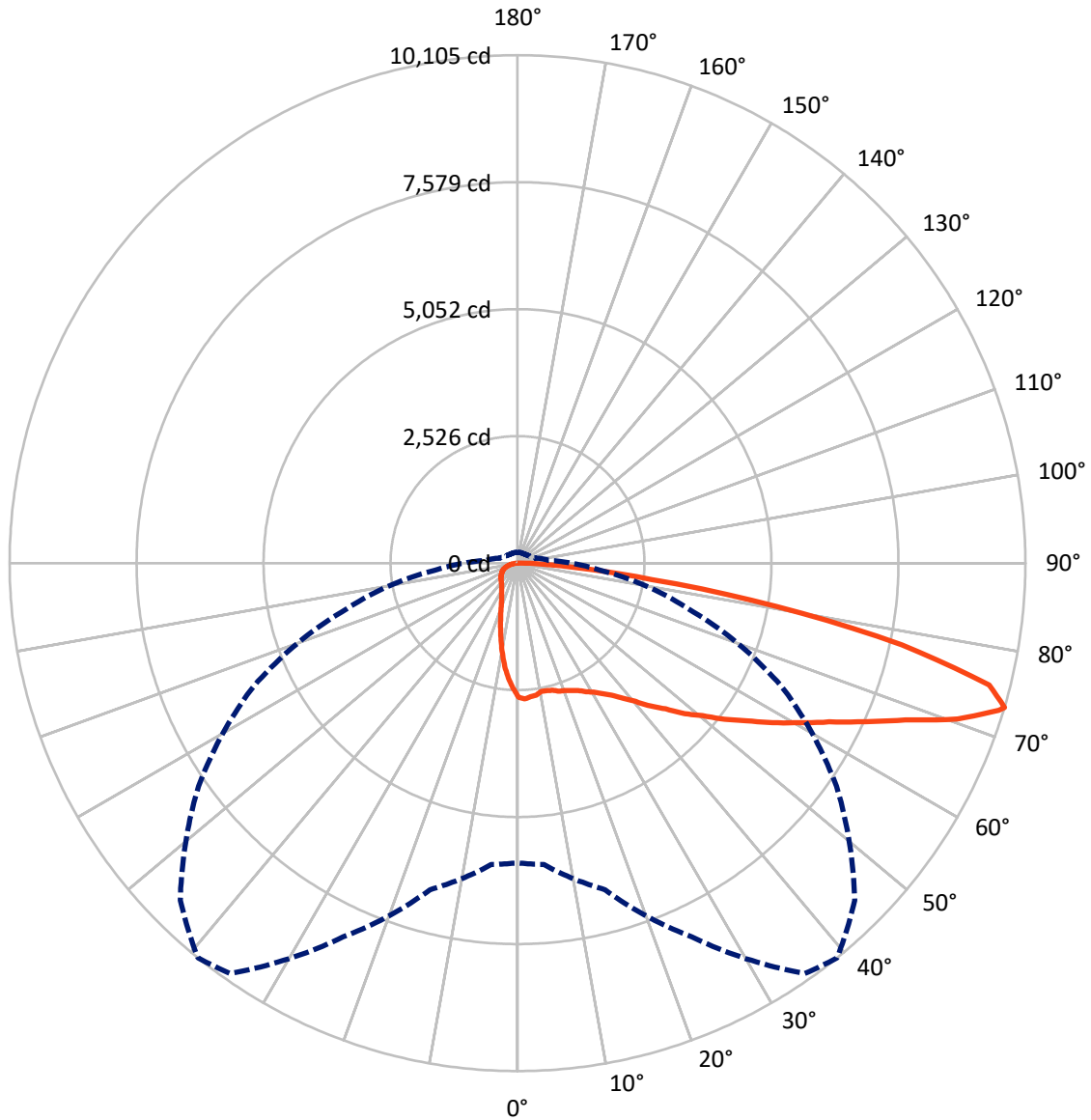
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2106.8	0.0	2106.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	12880.8	0.0	12880.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	14987.7	0.0	14987.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.6	1.5
10°-20°	588.7	3.9
20°-30°	899.7	6.0
30°-40°	1311.7	8.8
40°-50°	1982.2	13.2
50°-60°	2870.3	19.2
60°-70°	3646.9	24.3
70°-80°	2956.4	19.7
80°-90°	500.2	3.3
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°	14987.7	100.0
0°-180°	14987.7	100.0

**Coefficient of Utilization**



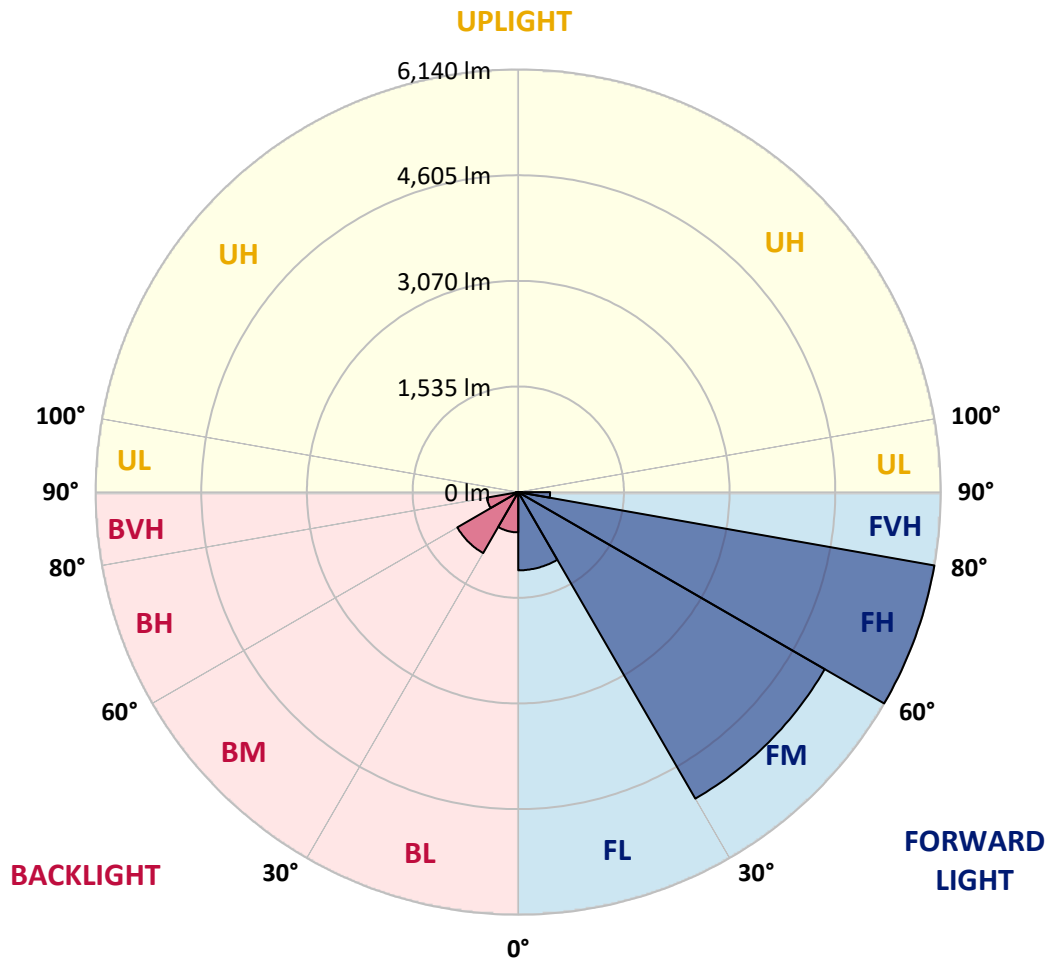
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.7	7.6			
FM (30°-60°)	5141.7	34.3			
FH (60°-80°)	6139.8	41.0			G3/7500
FVH (80°-90°)	463.5	3.1			G3/500
BL (0°-30°)	584.3	3.9	B2/1000		
BM (30°-60°)	1022.5	6.8	B2/2500		
BH (60°-80°)	463.4	3.1	B1/500		G1/500
BVH (80°-90°)	36.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9
2.5°	2731.6	2703.1	2708.1	2698.1	2708.1	2704.8	2699.8	2674.6	2699.8	2674.6	2667.9
5°	2694.7	2694.7	2711.5	2686.3	2689.7	2672.9	2689.7	2671.2	2654.5	2612.6	2600.8
7.5°	2683.0	2681.3	2683.0	2647.8	2664.5	2654.5	2637.7	2617.6	2584.1	2557.2	2518.7
10°	2602.5	2619.3	2600.8	2610.9	2624.3	2594.1	2592.4	2587.4	2572.3	2537.1	2513.6
12.5°	2558.9	2587.4	2597.5	2589.1	2600.8	2604.2	2594.1	2587.4	2569.0	2545.5	2478.4
15°	2577.3	2543.8	2572.3	2627.6	2615.9	2624.3	2626.0	2619.3	2610.9	2567.3	2523.7
17.5°	2582.4	2562.3	2622.6	2634.4	2649.4	2679.6	2659.5	2657.8	2626.0	2595.8	2532.1
20°	2594.1	2585.7	2634.4	2696.4	2698.1	2703.1	2713.2	2688.0	2671.2	2619.3	2522.0
22.5°	2637.7	2666.2	2711.5	2738.3	2753.4	2756.8	2756.8	2706.5	2688.0	2646.1	2569.0
25°	2768.5	2738.3	2802.0	2833.9	2812.1	2807.1	2795.3	2750.1	2729.9	2693.0	2590.8
27.5°	2864.1	2862.4	2899.3	2942.9	2884.2	2895.9	2854.0	2840.6	2795.3	2775.2	2629.3
30°	2994.9	3031.8	3030.1	3043.5	2966.4	2979.8	2926.1	2901.0	2875.8	2887.6	2743.4
32.5°	3162.6	3149.2	3171.0	3160.9	3083.8	3095.5	3031.8	2993.2	3001.6	3036.8	2899.3
35°	3269.9	3256.5	3264.9	3264.9	3241.4	3228.0	3201.1	3150.8	3191.1	3256.5	3073.7
37.5°	3385.6	3402.4	3451.0	3440.9	3410.7	3410.7	3407.4	3372.2	3424.2	3585.1	3352.1
40°	3487.9	3533.2	3563.3	3583.5	3618.7	3618.7	3647.2	3627.1	3721.0	3979.2	3692.5
42.5°	3595.2	3596.9	3761.2	3776.3	3855.1	3888.7	3910.5	3927.2	4103.3	4391.7	4056.3
45°	3732.7	3741.1	3885.3	4001.0	4123.4	4135.2	4217.3	4272.7	4489.0	4842.8	4452.1
47.5°	3913.8	3903.7	4058.0	4242.5	4395.1	4475.6	4574.5	4634.9	4901.5	5332.4	4884.7
50°	4151.9	4121.7	4210.6	4500.7	4680.1	4769.0	4945.1	5045.7	5357.6	5800.3	5181.5
52.5°	4442.0	4391.7	4462.1	4779.1	4980.3	5159.7	5327.4	5439.8	5765.1	6162.5	5401.2
55°	4748.9	4644.9	4665.0	5074.2	5364.3	5533.7	5763.4	5880.8	6212.8	6487.8	5620.9
57.5°	5052.4	4987.0	4946.8	5357.6	5822.1	5984.7	6196.0	6348.6	6630.3	6776.2	5807.0
60°	5307.3	5290.5	5225.1	5796.9	6306.7	6445.9	6667.2	6761.1	6974.1	7042.8	5810.3
62.5°	5516.9	5459.9	5563.8	6150.7	6799.7	6957.3	7200.5	7208.8	7359.8	7208.8	5639.3
65°	5681.2	5684.6	5850.6	6578.3	7369.8	7602.9	7799.1	7777.3	7680.0	7109.9	5235.2
67.5°	5830.5	5894.2	6137.3	7047.9	8102.6	8322.3	8540.3	8251.9	7767.2	6647.1	4445.4
70°	5947.8	6011.6	6524.7	7619.7	8966.2	9288.2	9336.8	8439.7	7366.5	5630.9	3353.7
72.5°	5934.4	6050.1	6744.4	8075.8	9732.5	10010.9	9618.5	7911.5	6137.3	3925.5	1956.9
73°	5962.9	6020.0	6725.9	8203.2	9965.6	10104.8	9487.7	7745.4	5788.5	3521.4	1655.1
75°	5412.9	5605.8	6392.2	7995.3	9715.8	9690.6	8736.5	6454.3	4115.0	1849.6	801.5
77.5°	4004.4	4126.8	5037.3	6575.0	7975.2	7814.2	6590.1	4125.1	1953.5	685.8	432.6
80°	1956.9	2052.5	2669.6	3796.4	5215.1	5228.5	4089.9	2146.4	836.8	387.4	295.1
82.5°	977.6	1034.6	1282.8	1668.5	2565.6	2688.0	2074.3	1220.8	518.2	219.7	167.7
85°	638.9	679.1	789.8	816.6	1088.3	1148.7	965.9	952.5	337.1	119.1	135.8
87.5°	424.2	431.0	484.6	412.5	436.0	419.2	466.2	600.3	98.9	50.3	36.9
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°	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9	2667.9
2.5°	2659.5	2636.0	2610.9	2575.7	2550.5	2511.9	2476.7	2461.6	2458.3	2460.0	2443.2
5°	2590.8	2557.2	2506.9	2434.8	2392.9	2329.2	2275.5	2247.0	2216.8	2221.8	2208.4
7.5°	2495.2	2458.3	2381.2	2297.3	2193.3	2102.8	2052.5	1982.1	1941.8	1911.6	1928.4
10°	2465.0	2401.3	2285.6	2169.9	2008.9	1889.8	1774.1	1693.6	1638.3	1584.6	1608.1
12.5°	2449.9	2386.2	2225.2	2054.2	1846.2	1665.1	1502.5	1403.5	1324.7	1277.8	1296.2
15°	2436.5	2357.7	2168.2	1926.7	1693.6	1455.5	1272.7	1141.9	1066.5	1021.2	1026.2
17.5°	2454.9	2342.6	2084.3	1802.6	1525.9	1271.1	1068.2	932.3	855.2	826.7	820.0
20°	2436.5	2325.8	2002.2	1678.5	1358.3	1095.0	900.5	788.1	734.5	711.0	706.0
22.5°	2443.2	2285.6	1916.7	1541.0	1202.3	947.4	788.1	702.6	660.7	648.9	652.3
25°	2475.1	2262.1	1831.1	1390.1	1048.0	838.4	716.0	650.6	620.4	608.7	612.1
27.5°	2498.5	2282.2	1754.0	1247.6	917.2	741.2	655.7	612.1	591.9	583.5	581.9
30°	2557.2	2294.0	1678.5	1120.1	809.9	677.5	613.7	578.5	565.1	560.1	558.4
32.5°	2644.4	2315.8	1591.3	1002.8	731.1	617.1	580.2	550.0	546.7	541.6	543.3
35°	2787.0	2391.2	1494.1	902.2	655.7	576.8	545.0	524.9	524.9	524.9	529.9
37.5°	2991.5	2496.9	1406.9	806.6	607.0	541.6	514.8	508.1	504.7	509.8	513.1
40°	3254.8	2624.3	1336.5	731.1	565.1	518.2	494.7	491.3	489.6	488.0	491.3
42.5°	3543.2	2787.0	1276.1	672.4	534.9	493.0	476.2	472.9	466.2	469.5	474.6
45°	3830.0	2988.2	1222.4	625.5	514.8	479.6	456.1	454.4	451.1	449.4	457.8
47.5°	4148.6	3186.0	1205.7	597.0	499.7	459.5	442.7	441.0	431.0	429.3	436.0
50°	4396.7	3331.9	1224.1	583.5	477.9	444.4	432.6	424.2	415.9	407.5	407.5
52.5°	4567.8	3432.5	1237.5	573.5	466.2	424.2	409.2	405.8	397.4	389.0	385.7
55°	4722.1	3492.9	1240.9	575.2	454.4	400.8	390.7	389.0	384.0	370.6	367.2
57.5°	4774.0	3467.8	1173.8	560.1	447.7	385.7	372.3	375.6	368.9	357.2	355.5
60°	4769.0	3293.4	1021.2	540.0	432.6	368.9	352.1	362.2	362.2	348.8	347.1
62.5°	4478.9	2890.9	835.1	501.4	415.9	352.1	333.7	348.8	353.8	345.4	343.8
65°	3876.9	2354.3	697.6	462.8	390.7	333.7	315.3	332.0	340.4	337.1	335.4
67.5°	3207.8	1801.0	580.2	412.5	358.8	308.5	293.5	305.2	310.2	311.9	313.6
70°	2267.1	1199.0	484.6	357.2	315.3	281.7	264.9	266.6	264.9	270.0	270.0
72.5°	1232.5	690.9	394.1	303.5	271.7	244.8	233.1	224.7	224.7	223.0	223.0
73°	1054.7	620.4	375.6	295.1	259.9	238.1	224.7	218.0	218.0	216.3	214.6
75°	591.9	454.4	322.0	253.2	224.7	207.9	197.9	187.8	186.1	186.1	186.1
77.5°	389.0	353.8	256.6	202.9	181.1	166.0	162.7	152.6	152.6	152.6	150.9
80°	291.8	278.4	197.9	154.3	139.2	127.4	124.1	117.4	115.7	109.0	110.7
82.5°	194.5	219.7	144.2	109.0	93.9	87.2	87.2	85.5	80.5	72.1	72.1
85°	154.3	179.4	104.0	67.1	55.3	47.0	48.6	47.0	45.3	36.9	35.2
87.5°	28.5	72.1	30.2	18.4	13.4	8.4	8.4	5.0	3.4	0.0	0.0
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)