

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: P479497

Luminaire Tested: **IFLD-S-SA6A-830-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

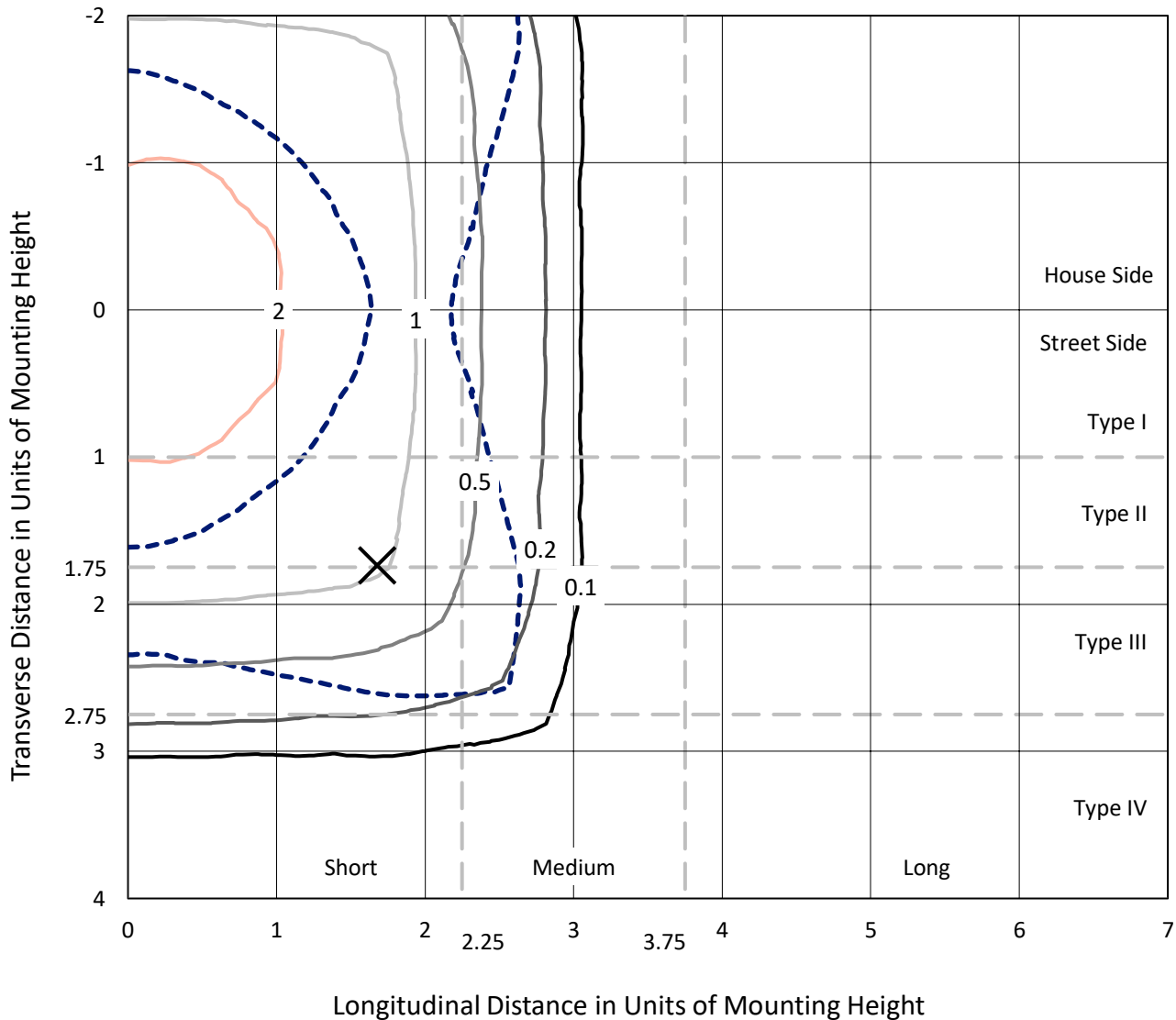
Lumens per Lamp: N/A
Luminaire Lumens: 21648 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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

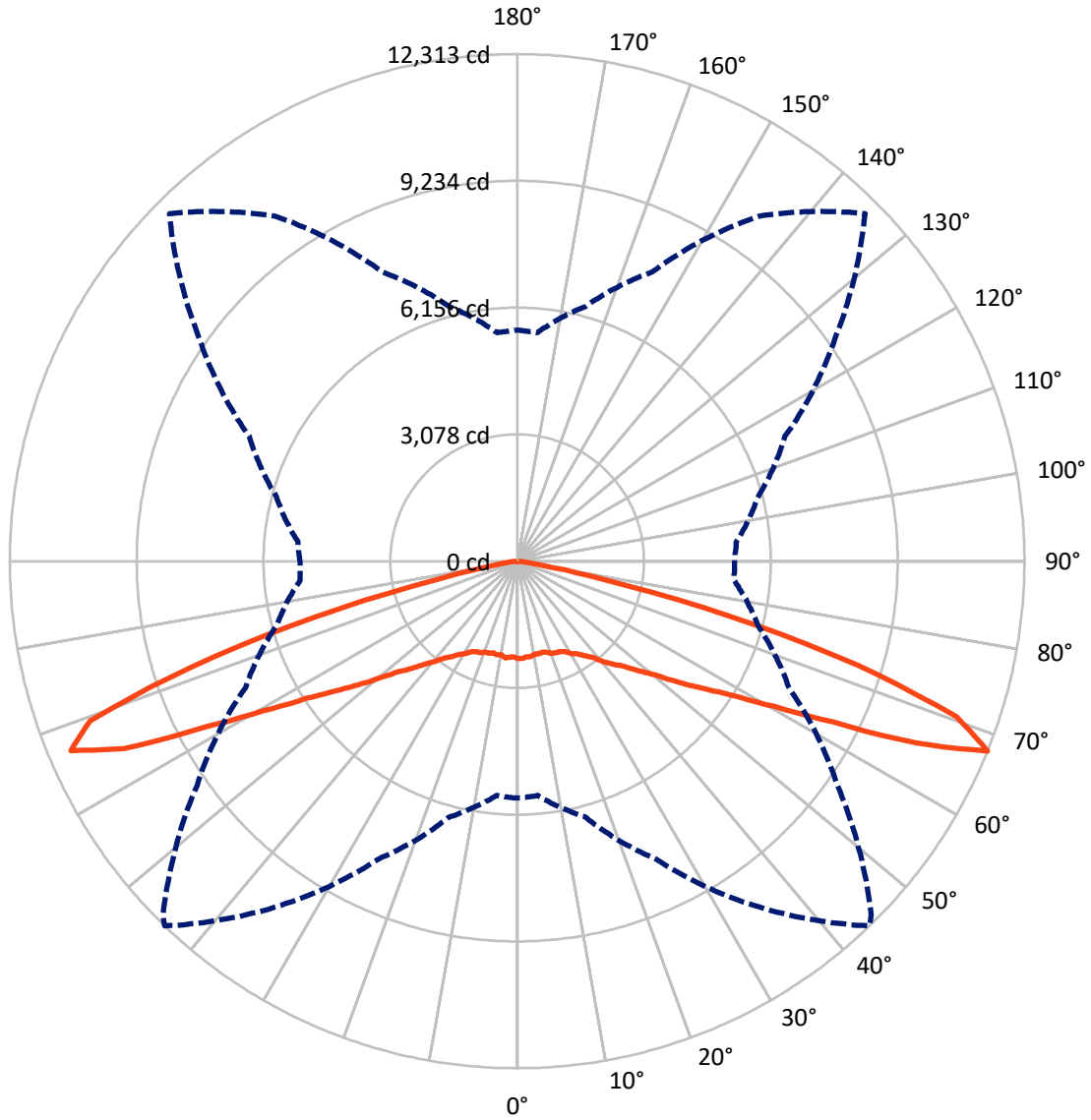
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10796.3	0.0	10796.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10851.7	0.0	10851.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	21648.0	0.0	21648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.0
10°-20°	653.7	3.0
20°-30°	1111.7	5.1
30°-40°	1762.7	8.1
40°-50°	2874.2	13.3
50°-60°	4908.7	22.7
60°-70°	7466.1	34.5
70°-80°	2516.5	11.6
80°-90°	130.7	0.6
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°	21648.0	100.0
0°-180°	21648.0	100.0

Coefficient of Utilization



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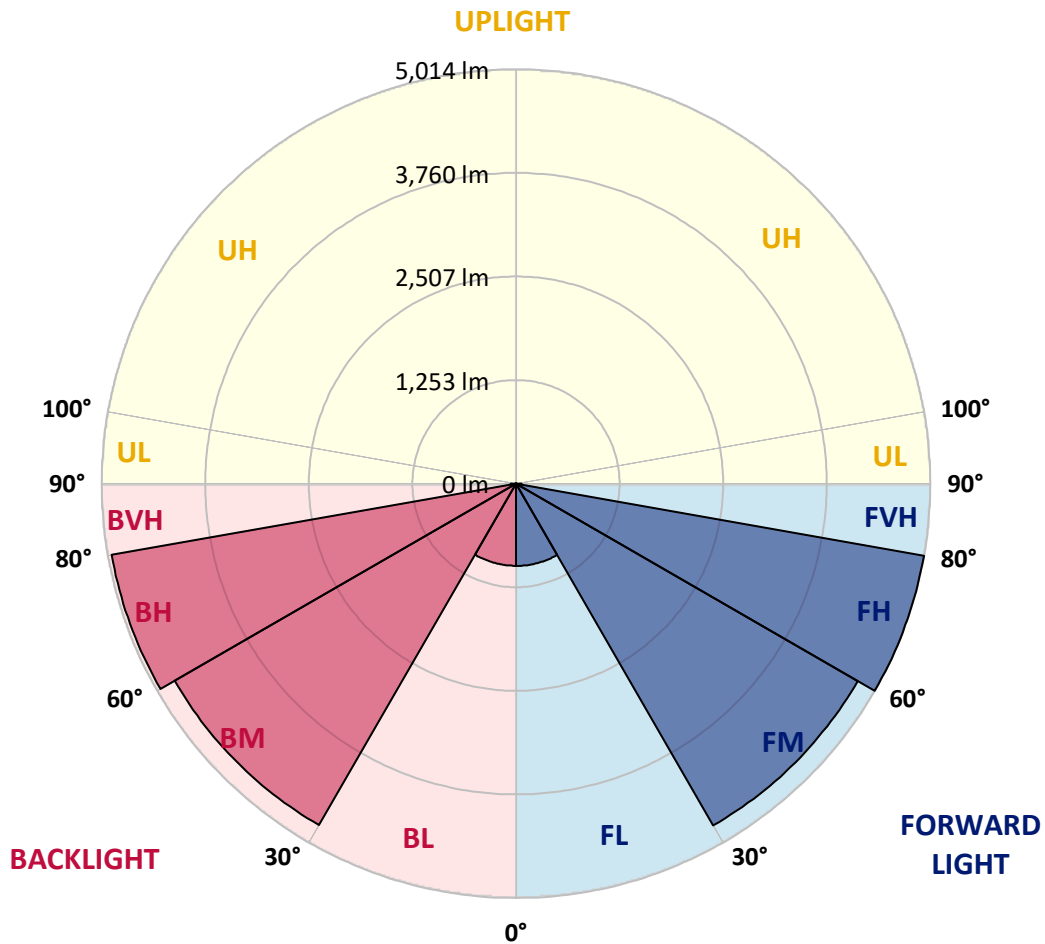
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.6	4.6			
FM (30°-60°)	4775.3	22.1			
FH (60°-80°)	5013.9	23.2			G3/7500
FVH (80°-90°)	66.8	0.3			G1/100
BL (0°-30°)	993.6	4.6	B2/1000		
BM (30°-60°)	4770.2	22.0	B3/5000		
BH (60°-80°)	4968.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	63.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2310.3	2337.5	2357.3	2354.8	2362.2	2369.6	2359.7	2374.6	2364.7	2382.0	2391.8
5°	2354.8	2347.4	2349.8	2335.0	2369.6	2330.1	2330.1	2349.8	2374.6	2344.9	2362.2
7.5°	2327.6	2322.7	2310.3	2332.5	2340.0	2340.0	2359.7	2322.7	2364.7	2374.6	2377.0
10°	2298.0	2270.8	2307.8	2330.1	2335.0	2295.5	2312.8	2322.7	2310.3	2322.7	2330.1
12.5°	2273.2	2288.1	2288.1	2288.1	2280.7	2307.8	2325.1	2322.7	2298.0	2320.2	2280.7
15°	2270.8	2263.4	2285.6	2305.4	2293.0	2298.0	2305.4	2327.6	2280.7	2290.5	2290.5
17.5°	2268.3	2278.2	2285.6	2283.1	2325.1	2325.1	2317.7	2302.9	2340.0	2320.2	2293.0
20°	2278.2	2270.8	2290.5	2298.0	2327.6	2386.9	2364.7	2352.3	2332.5	2307.8	2307.8
22.5°	2290.5	2285.6	2312.8	2344.9	2401.7	2416.6	2414.1	2399.3	2364.7	2335.0	2330.1
25°	2335.0	2290.5	2320.2	2382.0	2401.7	2431.4	2451.2	2431.4	2384.4	2391.8	2347.4
27.5°	2401.7	2394.3	2433.9	2475.9	2458.6	2485.7	2468.4	2483.3	2485.7	2448.7	2404.2
30°	2480.8	2458.6	2483.3	2564.8	2572.2	2601.9	2572.2	2532.7	2545.0	2512.9	2490.7
32.5°	2594.5	2587.1	2634.0	2688.4	2698.2	2683.4	2668.6	2690.8	2638.9	2614.2	2574.7
35°	2668.6	2700.7	2757.5	2799.6	2831.7	2816.8	2824.3	2802.0	2814.4	2762.5	2745.2
37.5°	2888.5	2876.1	2888.5	2960.2	2967.6	2960.2	2967.6	2992.3	2975.0	2930.5	2886.0
40°	3096.1	3076.3	3105.9	3187.5	3182.5	3207.3	3157.8	3185.0	3185.0	3101.0	3083.7
42.5°	3251.7	3318.4	3353.0	3419.8	3444.5	3422.2	3412.3	3417.3	3471.6	3372.8	3335.7
45°	3572.9	3570.5	3674.3	3711.3	3642.1	3637.2	3617.4	3676.7	3713.8	3657.0	3642.1
47.5°	3921.3	3938.6	3997.9	4012.8	4054.8	3978.2	3978.2	3985.6	4116.6	3983.1	3913.9
50°	4235.2	4257.4	4376.0	4492.1	4413.1	4331.5	4363.6	4403.2	4474.8	4348.8	4289.5
52.5°	4615.7	4736.8	4815.8	4877.6	4934.4	4877.6	4803.5	4847.9	4988.8	4820.8	4746.6
55°	5164.2	5260.6	5334.7	5448.4	5495.3	5418.7	5411.3	5406.4	5485.4	5307.5	5206.2
57.5°	5777.0	5737.5	5856.1	6031.5	6202.0	6127.9	6105.6	6110.6	6130.3	5878.3	5801.7
60°	6538.1	6582.5	6723.4	6876.6	7056.9	7160.7	7014.9	6930.9	6948.2	6604.8	6486.2
62.5°	6972.9	7071.8	7390.5	7916.8	8280.0	8603.7	8626.0	8079.9	7714.2	7047.1	6543.0
65°	6762.9	6748.1	7348.5	8322.1	9698.4	10639.8	10498.9	9174.5	7897.1	6837.0	6160.0
67.5°	5752.3	5712.8	6439.2	7983.5	10256.8	12312.6	12152.0	9483.4	7279.3	6048.8	5282.8
70°	3706.4	3696.5	4484.7	6085.9	9157.2	11304.5	11363.8	8613.6	5925.3	4430.4	3671.8
72.5°	1346.7	1428.2	1885.3	3271.5	6219.3	8648.2	8685.3	6377.4	3407.4	2048.4	1509.7
75°	496.7	511.5	595.5	1062.5	2834.1	5310.0	5448.4	3093.6	1210.8	667.1	543.6
77.5°	286.6	289.1	318.7	395.3	840.1	2073.1	2157.1	938.9	469.5	355.8	328.6
80°	195.2	192.7	224.9	257.0	336.0	588.1	625.1	392.9	296.5	247.1	207.6
82.5°	113.7	121.1	165.6	182.8	205.1	259.4	264.4	244.6	222.4	182.8	135.9
85°	69.2	56.8	91.4	101.3	118.6	116.1	116.1	133.4	143.3	128.5	76.6
87.5°	17.3	17.3	22.2	24.7	32.1	24.7	27.2	51.9	69.2	64.2	39.5
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°	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2369.6	2362.2	2367.1	2394.3	2377.0	2325.1	2337.5	2364.7	2342.4	2330.1	2327.6
5°	2359.7	2374.6	2357.3	2362.2	2379.5	2337.5	2344.9	2379.5	2364.7	2369.6	2342.4
7.5°	2362.2	2369.6	2354.8	2332.5	2332.5	2367.1	2347.4	2352.3	2330.1	2367.1	2317.7
10°	2347.4	2327.6	2310.3	2322.7	2317.7	2307.8	2300.4	2315.3	2293.0	2325.1	2290.5
12.5°	2302.9	2307.8	2302.9	2298.0	2307.8	2332.5	2293.0	2298.0	2263.4	2268.3	2285.6
15°	2285.6	2300.4	2295.5	2322.7	2335.0	2298.0	2327.6	2298.0	2270.8	2255.9	2283.1
17.5°	2293.0	2315.3	2307.8	2327.6	2305.4	2332.5	2337.5	2325.1	2293.0	2280.7	2293.0
20°	2300.4	2293.0	2302.9	2337.5	2369.6	2342.4	2342.4	2335.0	2305.4	2288.1	2288.1
22.5°	2317.7	2305.4	2320.2	2347.4	2357.3	2399.3	2362.2	2344.9	2295.5	2251.0	2293.0
25°	2352.3	2359.7	2369.6	2359.7	2414.1	2409.1	2404.2	2391.8	2315.3	2317.7	2310.3
27.5°	2419.0	2377.0	2389.4	2448.7	2456.1	2475.9	2451.2	2473.4	2391.8	2394.3	2344.9
30°	2500.6	2456.1	2495.6	2547.5	2545.0	2582.1	2569.8	2574.7	2517.9	2485.7	2419.0
32.5°	2589.5	2584.6	2609.3	2641.4	2653.8	2673.5	2671.1	2671.1	2636.5	2552.5	2564.8
35°	2688.4	2723.0	2752.6	2787.2	2792.1	2816.8	2782.3	2787.2	2752.6	2690.8	2710.6
37.5°	2883.6	2881.1	2913.2	2955.2	2960.2	2940.4	2967.6	2955.2	2908.3	2866.3	2834.1
40°	3110.9	3061.5	3091.1	3190.0	3197.4	3162.8	3160.3	3157.8	3123.2	3031.8	3012.1
42.5°	3308.6	3372.8	3367.9	3400.0	3377.7	3360.4	3422.2	3387.6	3360.4	3264.1	3246.8
45°	3563.1	3582.8	3647.1	3750.9	3644.6	3644.6	3686.6	3659.4	3644.6	3572.9	3506.2
47.5°	3879.3	3896.6	4025.1	4032.5	3963.4	3916.4	4047.4	4052.3	3990.5	3936.2	3854.6
50°	4250.0	4257.4	4373.5	4492.1	4415.5	4326.6	4460.0	4511.9	4373.5	4299.4	4198.1
52.5°	4657.7	4635.4	4731.8	4954.2	4880.1	4852.9	4996.2	5008.6	4820.8	4704.6	4731.8
55°	5127.2	5097.5	5359.4	5510.1	5463.2	5413.8	5478.0	5507.7	5357.0	5166.7	5233.4
57.5°	5735.0	5749.8	5880.8	6029.0	6105.6	6118.0	6147.6	6118.0	5964.8	5772.1	5710.3
60°	6342.8	6387.3	6641.8	6921.0	6945.8	7163.2	7123.7	6975.4	6758.0	6483.7	6496.0
62.5°	6567.7	6530.6	6940.8	7622.8	8203.5	8601.3	8425.8	7899.5	7395.5	6896.3	6933.4
65°	6115.5	6206.9	6765.4	7832.8	9093.0	10667.0	9732.9	8277.6	7259.6	6614.7	6543.0
67.5°	5270.5	5339.7	6048.8	7175.5	9411.7	11937.0	10227.1	7743.9	6402.2	5567.0	5611.5
70°	3671.8	3706.4	4400.7	5878.3	8534.6	11264.9	9226.4	5947.5	4420.5	3523.5	3572.9
72.5°	1477.6	1561.6	2018.7	3540.8	6300.8	8559.3	6211.9	3120.8	1833.4	1363.9	1237.9
75°	546.1	548.5	644.9	1218.2	2992.3	5379.2	2802.0	1003.2	585.6	479.4	457.1
77.5°	316.3	313.8	336.0	439.8	867.3	2100.3	795.6	392.9	318.7	286.6	274.3
80°	197.7	195.2	229.8	291.6	380.5	575.7	336.0	244.6	215.0	185.3	185.3
82.5°	126.0	128.5	180.4	215.0	232.3	254.5	195.2	173.0	160.6	106.2	103.8
85°	81.5	74.1	126.0	143.3	128.5	113.7	108.7	91.4	84.0	51.9	56.8
87.5°	37.1	39.5	64.2	71.7	46.9	27.2	27.2	19.8	19.8	12.4	12.4
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)