

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: P478917

Luminaire Tested: **IFLD-M-SA4A-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478917
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

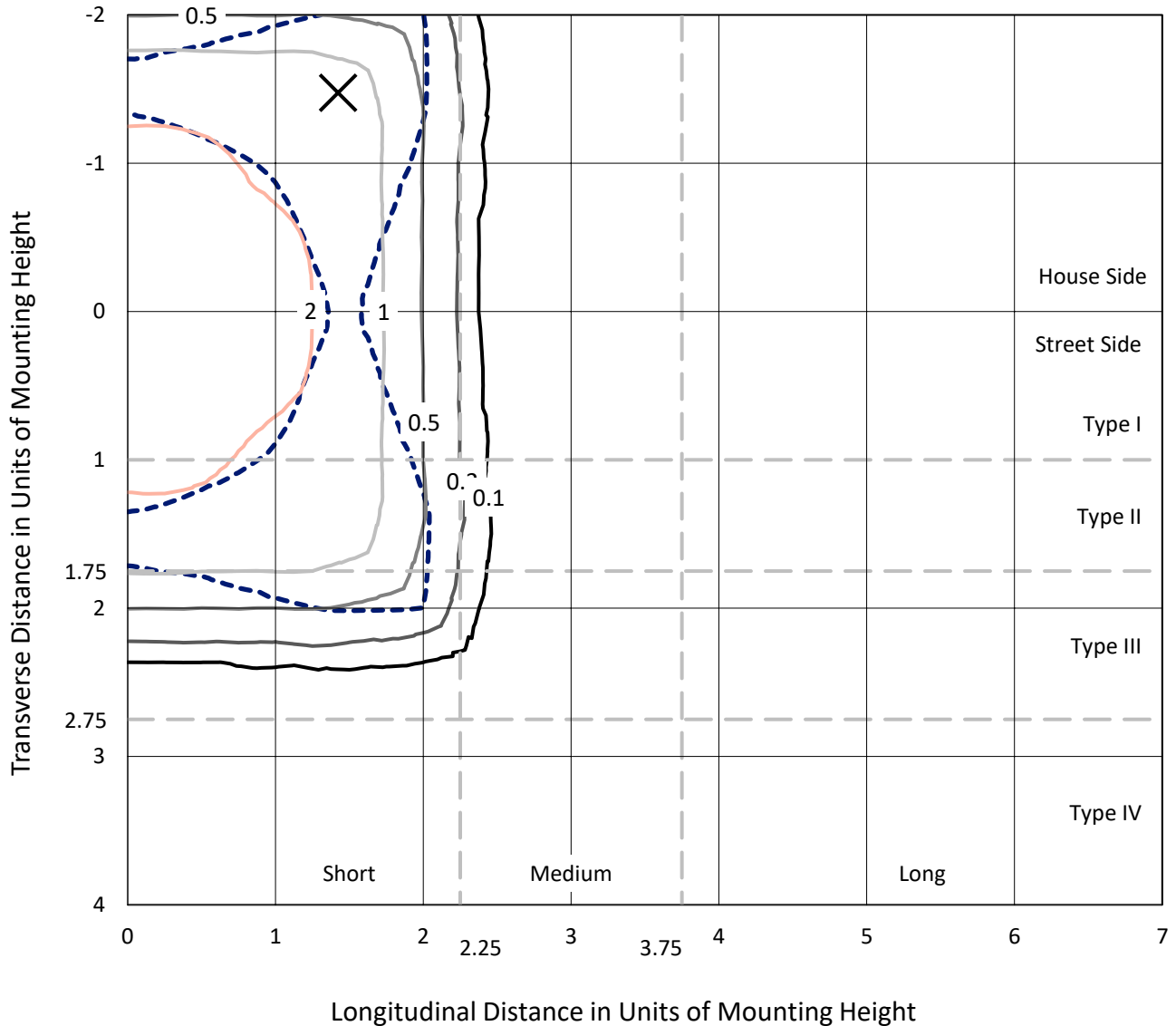
Lumens per Lamp: N/A
Luminaire Lumens: 18166.5 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

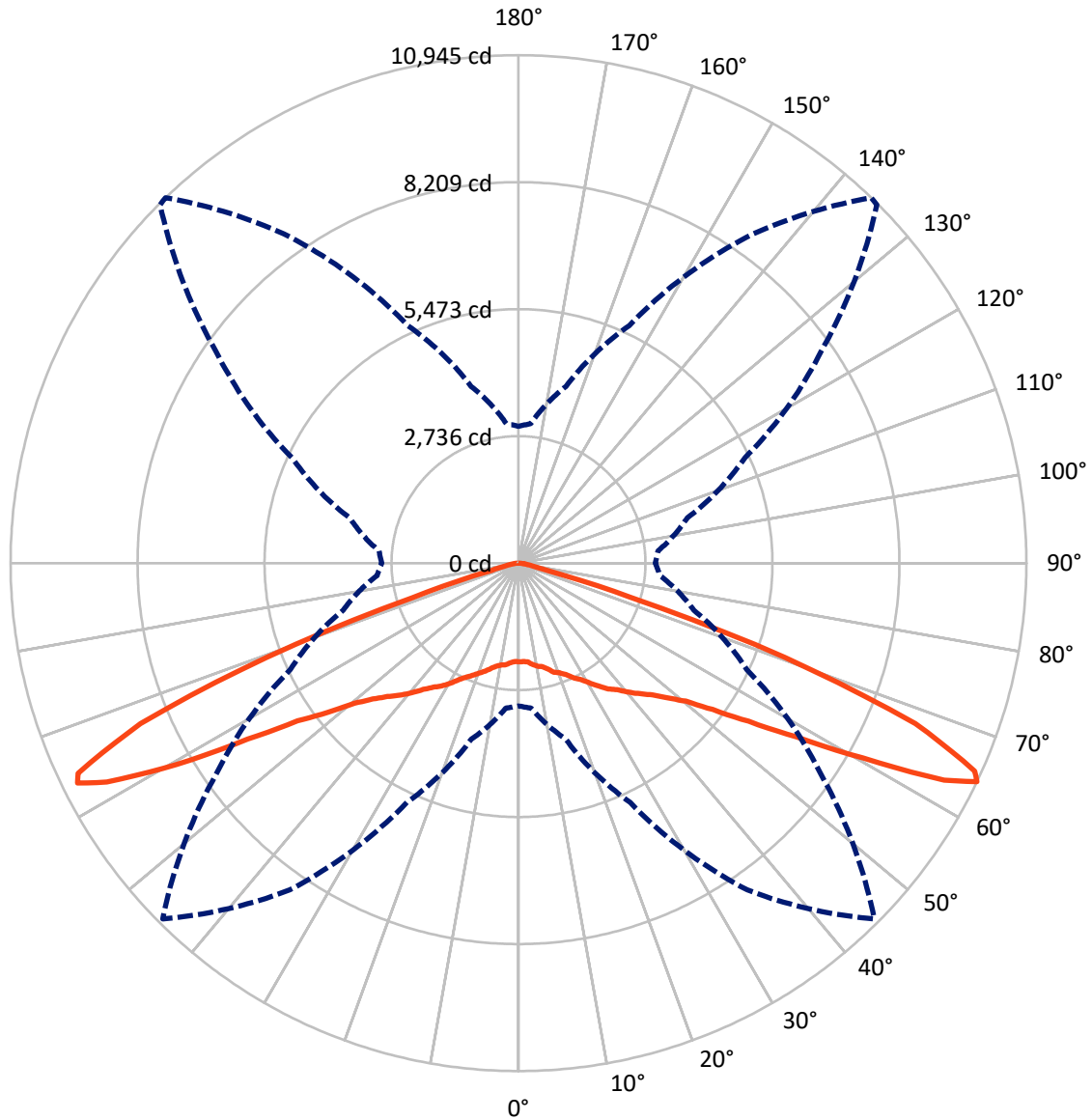
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9091.9	0.0	9091.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9074.6	0.0	9074.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	18166.5	0.0	18166.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	1.2
10°-20°	673.6	3.7
20°-30°	1265.9	7.0
30°-40°	2087.7	11.5
40°-50°	3265.0	18.0
50°-60°	5275.5	29.0
60°-70°	4750.2	26.1
70°-80°	562.7	3.1
80°-90°	77.0	0.4
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°	18166.5	100.0
0°-180°	18166.5	100.0

Coefficient of Utilization



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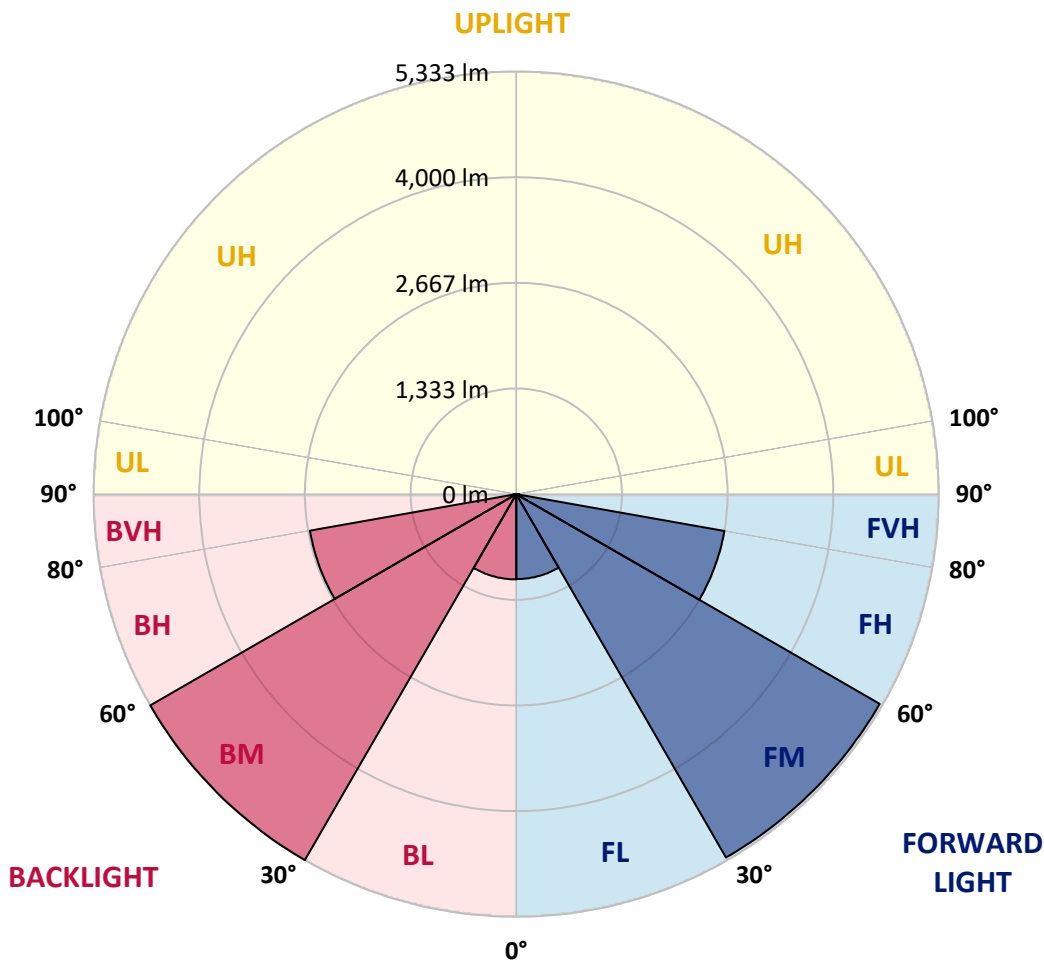
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.2	5.9			
FM (30°-60°)	5295.0	29.1			
FH (60°-80°)	2668.0	14.7			G2/5000
FVH (80°-90°)	39.5	0.2			G1/100
BL (0°-30°)	1076.3	5.9	B3/2500		
BM (30°-60°)	5333.2	29.4	B4/8500		
BH (60°-80°)	2644.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	37.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9
2.5°	2101.9	2106.1	2143.6	2129.0	2141.5	2118.6	2135.3	2170.7	2129.0	2160.3	2170.7
5°	2124.8	2131.1	2131.1	2145.7	2154.0	2149.8	2160.3	2145.7	2185.3	2168.6	2193.6
7.5°	2208.2	2197.8	2181.1	2193.6	2195.7	2206.1	2216.5	2235.3	2229.0	2214.4	2239.4
10°	2222.8	2214.4	2239.4	2241.5	2231.1	2222.8	2233.2	2233.2	2251.9	2256.1	2256.1
12.5°	2247.8	2256.1	2254.0	2270.7	2272.7	2266.5	2283.2	2314.4	2306.1	2312.3	2297.7
15°	2343.6	2333.2	2331.1	2347.7	2374.8	2335.2	2364.4	2362.3	2354.0	2366.5	2333.2
17.5°	2426.9	2393.6	2408.2	2435.2	2424.8	2433.2	2470.7	2437.3	2445.7	2431.1	2420.7
20°	2499.8	2472.7	2474.8	2485.2	2485.2	2510.2	2524.8	2512.3	2504.0	2501.9	2506.1
22.5°	2581.1	2549.8	2551.9	2595.6	2610.2	2601.9	2591.5	2612.3	2616.5	2599.8	2618.6
25°	2641.5	2674.8	2685.2	2706.1	2674.8	2697.7	2689.4	2729.0	2754.0	2720.6	2743.5
27.5°	2799.8	2785.2	2812.3	2810.2	2835.2	2812.3	2826.9	2839.4	2849.8	2851.9	2841.5
30°	2941.4	2947.7	2920.6	2993.5	2935.2	2972.7	2997.7	3003.9	3016.4	3016.4	2985.2
32.5°	3091.4	3078.9	3122.7	3106.0	3095.6	3124.8	3097.7	3183.1	3133.1	3162.3	3126.9
35°	3260.2	3260.2	3276.8	3322.7	3260.2	3241.4	3291.4	3326.8	3326.8	3274.8	3287.3
37.5°	3449.7	3433.1	3453.9	3512.2	3464.3	3401.8	3493.5	3508.1	3497.7	3483.1	3458.1
40°	3583.1	3578.9	3620.6	3697.6	3628.9	3616.4	3633.1	3672.6	3685.1	3699.7	3666.4
42.5°	3808.1	3826.8	3947.6	3928.9	3872.6	3828.9	3824.7	3972.6	3937.2	3899.7	3881.0
45°	4141.4	4124.7	4187.2	4189.3	4116.4	4020.5	4041.4	4176.8	4237.2	4153.9	4185.1
47.5°	4405.9	4414.3	4458.0	4547.6	4378.8	4278.9	4355.9	4574.7	4555.9	4524.7	4553.8
50°	4760.1	4797.6	4935.1	4903.8	4753.8	4630.9	4799.6	5005.9	5028.8	4914.2	4893.4
52.5°	5249.6	5307.9	5382.9	5407.9	5264.2	5220.4	5230.9	5487.1	5430.8	5320.4	5249.6
55°	5678.7	5705.8	5843.3	6049.6	6039.1	5828.7	5949.6	6045.4	5816.2	5589.2	5607.9
57.5°	5862.1	5874.6	6257.9	6670.3	6916.2	6964.1	6826.6	6503.7	5957.9	5520.4	5493.3
60°	5405.9	5524.6	5987.1	6918.2	8041.1	8595.2	7680.7	6555.8	5626.7	5095.5	5055.9
62.5°	4320.5	4326.8	5014.2	6426.6	8741.0	10193.0	8007.7	6066.2	4743.4	4141.4	3983.0
64°	3076.9	3135.2	3924.7	5689.2	8595.2	10842.9	7968.2	5426.7	3910.1	3056.0	2945.6
65°	2208.2	2289.4	3051.9	4939.2	8253.6	10765.9	7849.4	4876.7	3162.3	2333.2	2220.7
67.5°	812.4	845.8	1197.8	2470.7	5926.6	9174.3	6220.4	2681.1	1389.5	989.5	889.5
70°	377.1	379.1	443.7	816.6	2591.5	6135.0	2968.5	1006.2	522.9	414.6	385.4
72.5°	277.1	283.3	310.4	377.1	762.4	2597.7	974.9	412.5	306.2	270.8	264.6
75°	225.0	229.1	237.5	272.9	352.1	695.8	395.8	285.4	243.7	218.7	210.4
77.5°	172.9	172.9	191.7	208.3	233.3	325.0	262.5	227.1	197.9	172.9	166.7
80°	125.0	127.1	150.0	162.5	158.3	214.6	189.6	187.5	162.5	135.4	125.0
82.5°	72.9	79.2	108.3	116.7	112.5	127.1	137.5	145.8	127.1	93.7	85.4
85°	41.7	43.7	62.5	64.6	64.6	60.4	79.2	87.5	85.4	58.3	52.1
87.5°	12.5	12.5	16.7	16.7	18.7	20.8	31.2	37.5	41.7	29.2	27.1
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9	2126.9
2.5°	2160.3	2129.0	2131.1	2139.4	2112.3	2122.8	2154.0	2131.1	2124.8	2112.3	2106.1
5°	2149.8	2183.2	2170.7	2174.8	2168.6	2139.4	2135.3	2154.0	2164.4	2145.7	2183.2
7.5°	2222.8	2208.2	2191.5	2197.8	2183.2	2208.2	2224.8	2187.3	2206.1	2195.7	2174.8
10°	2264.4	2237.3	2249.8	2245.7	2235.3	2260.2	2243.6	2239.4	2222.8	2199.8	2233.2
12.5°	2279.0	2310.2	2331.1	2295.7	2301.9	2289.4	2279.0	2279.0	2260.2	2254.0	2260.2
15°	2343.6	2370.7	2362.3	2389.4	2354.0	2366.5	2379.0	2347.7	2364.4	2318.6	2354.0
17.5°	2462.3	2439.4	2468.6	2433.2	2445.7	2470.7	2431.1	2431.1	2443.6	2418.6	2387.3
20°	2537.3	2526.9	2516.5	2518.6	2497.7	2520.6	2508.1	2501.9	2483.1	2491.5	2508.1
22.5°	2608.1	2593.6	2597.7	2604.0	2618.6	2608.1	2601.9	2608.1	2562.3	2604.0	2545.6
25°	2695.6	2735.2	2722.7	2749.8	2708.1	2735.2	2733.1	2693.6	2718.5	2701.9	2689.4
27.5°	2841.5	2820.6	2839.4	2806.0	2835.2	2837.3	2812.3	2879.0	2849.8	2845.6	2837.3
30°	3028.9	3014.4	3001.9	2983.1	3006.0	2987.3	3008.1	3014.4	2987.3	2966.4	2926.9
32.5°	3135.2	3174.8	3189.3	3143.5	3145.6	3156.0	3137.3	3118.5	3135.2	3141.4	3135.2
35°	3285.2	3322.7	3331.0	3295.6	3276.8	3328.9	3291.4	3353.9	3299.8	3301.8	3245.6
37.5°	3460.2	3470.6	3541.4	3501.8	3485.2	3460.2	3528.9	3520.6	3533.1	3433.1	3483.1
40°	3658.1	3695.6	3735.1	3635.1	3633.1	3656.0	3651.8	3699.7	3676.8	3662.2	3626.8
42.5°	3874.7	3953.9	3960.1	3893.5	3851.8	3847.6	3868.5	3974.7	3976.8	3881.0	3839.3
45°	4162.2	4249.7	4226.8	4097.6	4051.8	4045.5	4147.6	4193.4	4233.0	4195.5	4160.1
47.5°	4520.5	4578.8	4562.2	4443.4	4295.5	4337.2	4437.2	4580.9	4539.2	4489.3	4447.6
50°	4903.8	4972.5	4937.1	4818.4	4676.7	4676.7	4799.6	4983.0	4970.5	4872.6	4835.1
52.5°	5328.8	5428.8	5510.0	5341.3	5222.5	5241.3	5435.0	5501.7	5470.4	5401.7	5370.4
55°	5645.4	5837.1	6003.7	6012.1	6018.3	6016.2	6066.2	6132.9	5910.0	5799.6	5687.1
57.5°	5568.3	5930.8	6501.6	6889.1	7003.6	7064.1	7047.4	6739.1	6212.0	5849.6	5887.1
60°	5018.4	5610.0	6530.8	7774.4	8607.7	8524.4	8220.2	7001.6	6045.4	5432.9	5355.9
62.5°	4003.9	4716.3	6041.2	8024.4	10320.1	10295.1	8703.5	6395.4	5037.1	4262.2	4214.3
64°	3016.4	3766.4	5389.2	7959.8	10920.0	10945.0	8580.6	5649.6	3941.4	3016.4	2943.5
65°	2308.2	3003.9	4749.6	7826.5	10790.9	10805.5	8239.0	4878.8	2995.6	2141.5	2062.3
67.5°	918.7	1279.1	2576.9	5935.0	9266.0	9226.4	5878.7	2360.2	1145.7	745.8	731.2
70°	391.6	487.5	904.1	2812.3	6203.7	6089.1	2531.1	766.6	425.0	356.2	354.1
72.5°	268.7	297.9	387.5	868.7	2579.0	2518.6	720.8	356.2	289.6	266.6	266.6
75°	216.7	237.5	281.2	364.6	683.3	658.3	339.6	262.5	231.2	214.6	212.5
77.5°	168.7	189.6	220.8	252.1	312.5	310.4	227.1	197.9	179.2	166.7	162.5
80°	133.3	154.2	175.0	179.2	204.2	200.0	154.2	156.2	145.8	120.8	118.7
82.5°	91.7	125.0	139.6	127.1	120.8	120.8	110.4	110.4	102.1	75.0	68.7
85°	56.2	83.3	87.5	75.0	56.2	56.2	60.4	58.3	54.2	39.6	37.5
87.5°	29.2	39.6	35.4	29.2	18.7	18.7	16.7	12.5	12.5	10.4	10.4
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)