

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: P479057

Luminaire Tested: **IFLD-S-SA3E-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479057
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

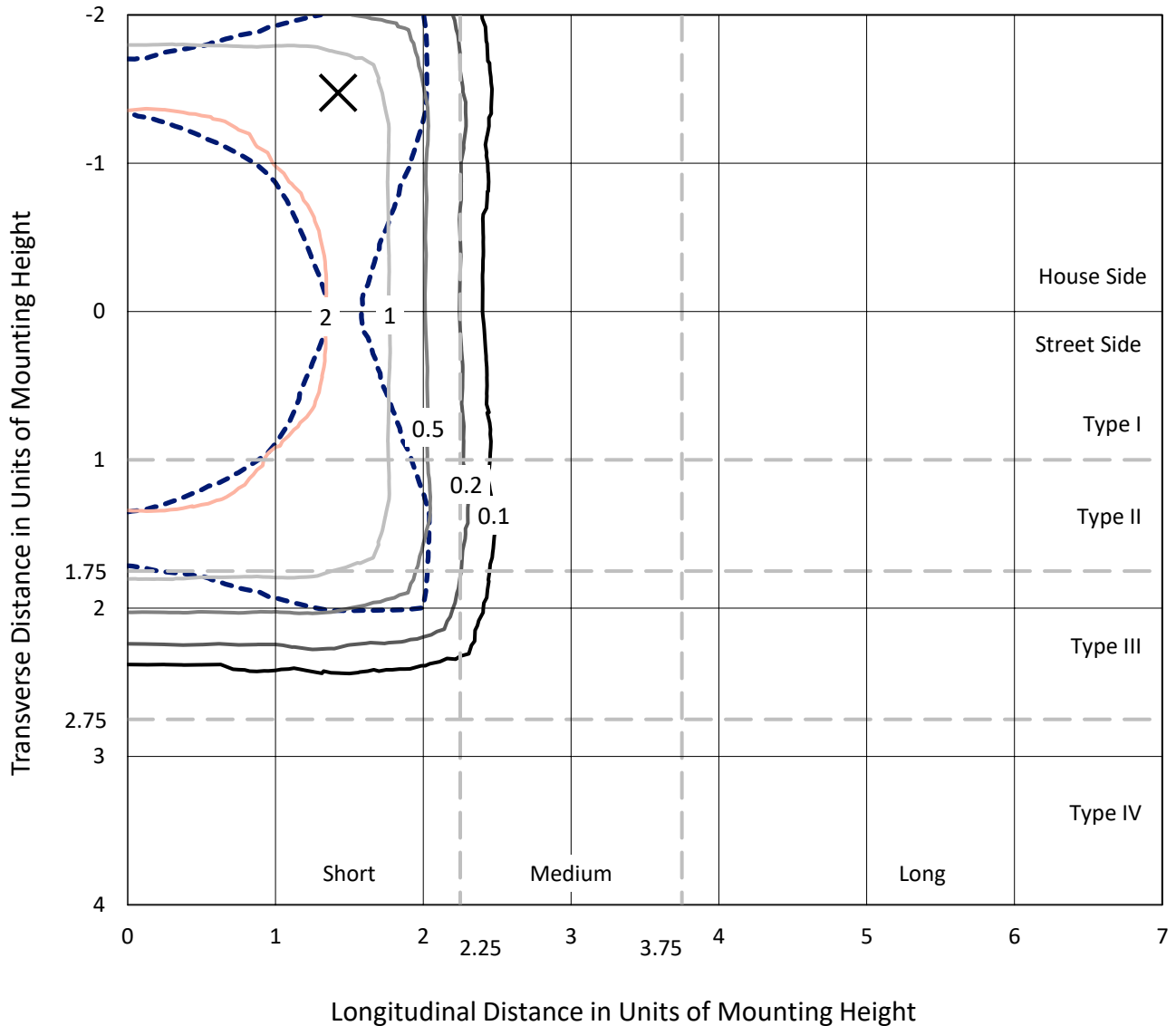
Lumens per Lamp: N/A
Luminaire Lumens: 19776 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

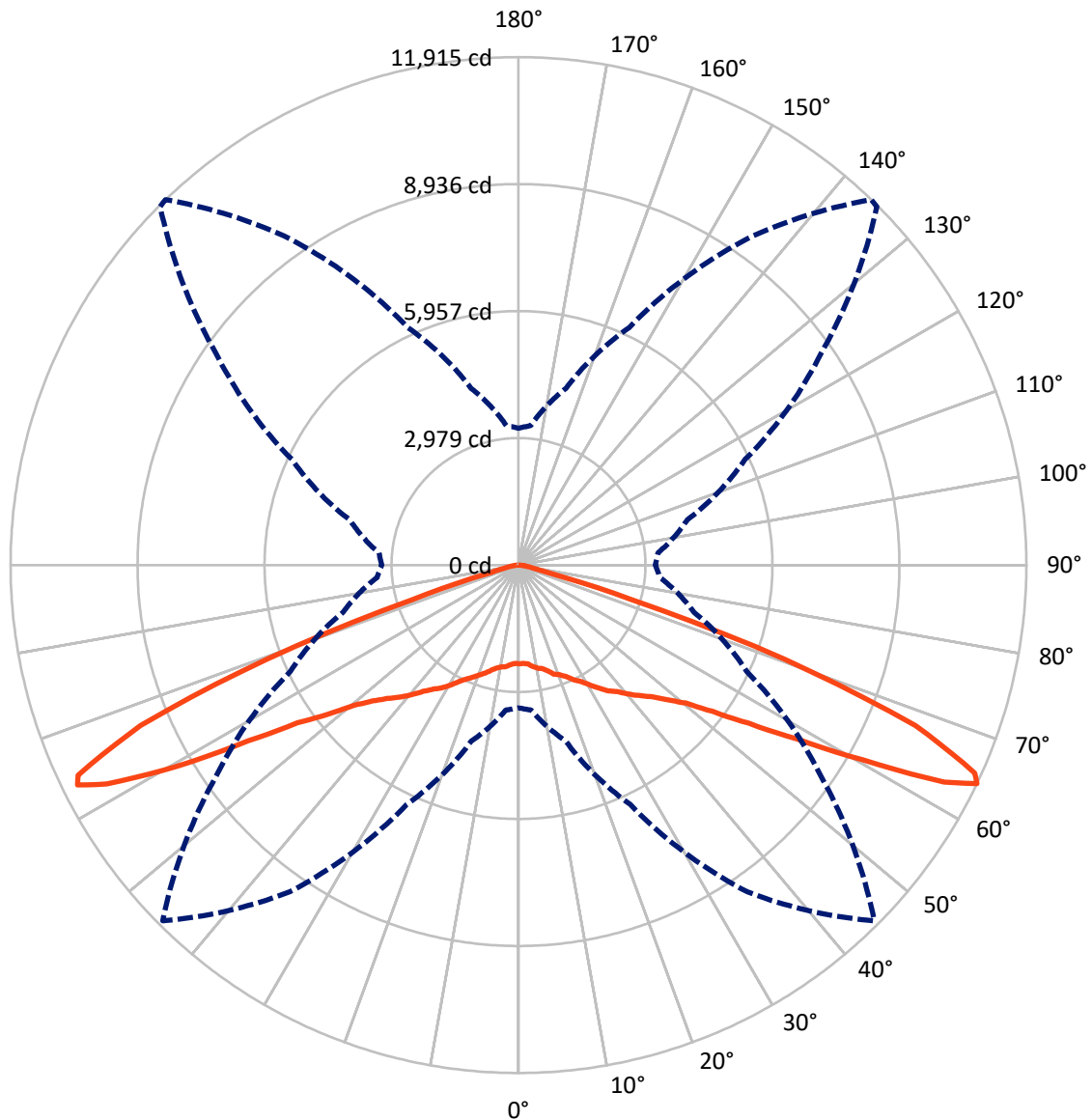
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	9897.4	0.0	9897.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9878.6	0.0	9878.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19776.0	0.0	19776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.2
10°-20°	733.2	3.7
20°-30°	1378.1	7.0
30°-40°	2272.7	11.5
40°-50°	3554.3	18.0
50°-60°	5742.8	29.0
60°-70°	5171.1	26.1
70°-80°	612.5	3.1
80°-90°	83.8	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°	19776.0	100.0
0°-180°	19776.0	100.0

Coefficient of Utilization



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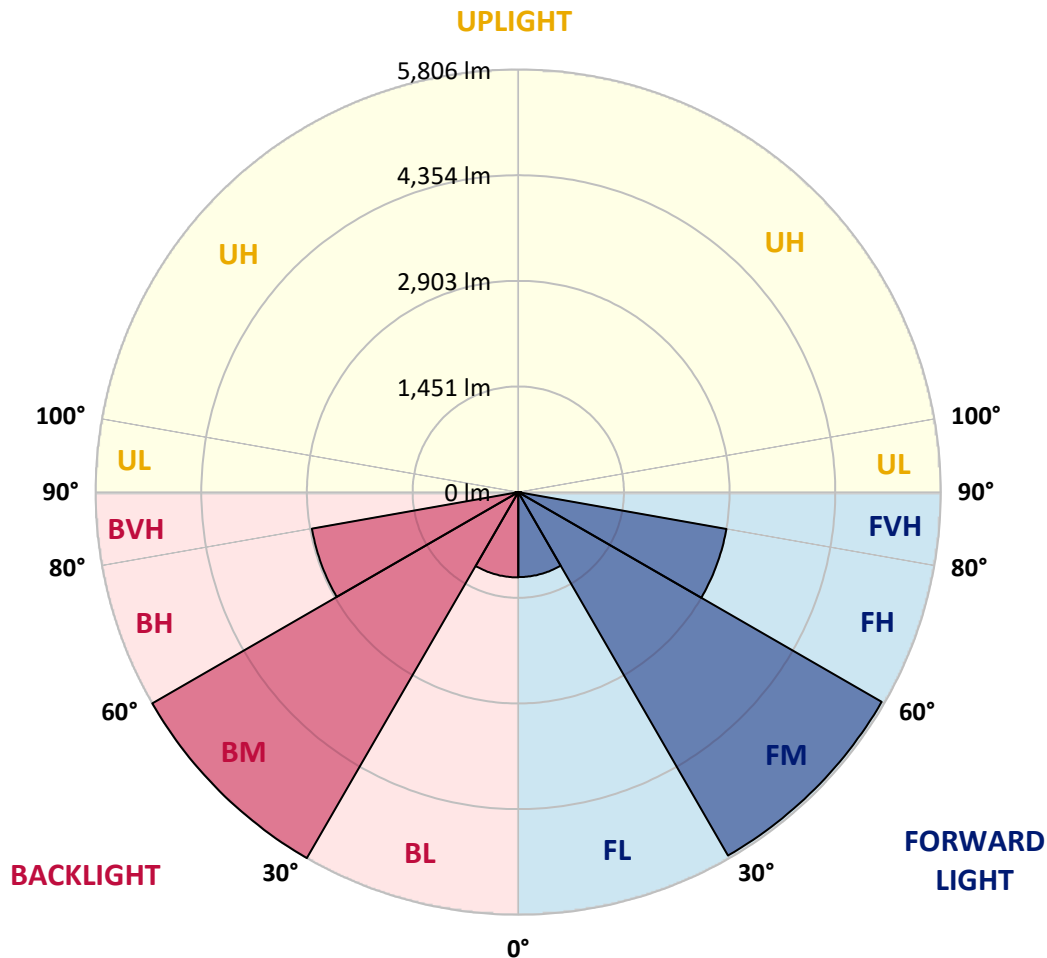
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.1	5.9			
FM (30°-60°)	5764.1	29.1			
FH (60°-80°)	2904.3	14.7			G2/5000
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	1171.7	5.9	B3/2500		
BM (30°-60°)	5805.7	29.4	B4/8500		
BH (60°-80°)	2879.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	40.8	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°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2288.2	2292.7	2333.5	2317.6	2331.2	2306.3	2324.4	2363.0	2317.6	2351.7	2363.0
5°	2313.1	2319.9	2319.9	2335.8	2344.8	2340.3	2351.7	2335.8	2378.9	2360.7	2387.9
7.5°	2403.8	2392.5	2374.3	2387.9	2390.2	2401.5	2412.9	2433.3	2426.5	2410.6	2437.8
10°	2419.7	2410.6	2437.8	2440.1	2428.8	2419.7	2431.0	2431.0	2451.4	2456.0	2456.0
12.5°	2446.9	2456.0	2453.7	2471.8	2474.1	2467.3	2485.4	2519.5	2510.4	2517.2	2501.3
15°	2551.2	2539.9	2537.6	2555.7	2585.2	2542.1	2573.9	2571.6	2562.6	2576.2	2539.9
17.5°	2641.9	2605.6	2621.5	2651.0	2639.7	2648.7	2689.5	2653.3	2662.3	2646.5	2635.1
20°	2721.3	2691.8	2694.1	2705.4	2705.4	2732.6	2748.5	2734.9	2725.8	2723.6	2728.1
22.5°	2809.7	2775.7	2778.0	2825.6	2841.5	2832.4	2821.1	2843.8	2848.3	2830.1	2850.6
25°	2875.5	2911.8	2923.1	2945.8	2911.8	2936.7	2927.7	2970.7	2998.0	2961.7	2986.6
27.5°	3047.8	3032.0	3061.5	3059.2	3086.4	3061.5	3077.3	3090.9	3102.3	3104.5	3093.2
30°	3202.1	3208.9	3179.4	3258.7	3195.3	3236.1	3263.3	3270.1	3283.7	3283.7	3249.7
32.5°	3365.3	3351.7	3399.3	3381.2	3369.9	3401.6	3372.1	3465.1	3410.7	3442.4	3403.9
35°	3549.0	3549.0	3567.2	3617.1	3549.0	3528.6	3583.0	3621.6	3621.6	3564.9	3578.5
37.5°	3755.4	3737.2	3759.9	3823.4	3771.3	3703.2	3803.0	3818.9	3807.5	3791.7	3764.5
40°	3900.5	3896.0	3941.3	4025.2	3950.4	3936.8	3954.9	3998.0	4011.6	4027.5	3991.2
42.5°	4145.4	4165.8	4297.4	4277.0	4215.7	4168.1	4163.6	4324.6	4286.0	4245.2	4224.8
45°	4508.3	4490.1	4558.2	4560.4	4481.1	4376.7	4399.4	4546.8	4612.6	4521.9	4555.9
47.5°	4796.3	4805.3	4853.0	4950.5	4766.8	4657.9	4741.9	4980.0	4959.6	4925.5	4957.3
50°	5181.8	5222.6	5372.3	5338.3	5175.0	5041.2	5224.9	5449.4	5474.3	5349.6	5326.9
52.5°	5714.7	5778.2	5859.8	5887.1	5730.6	5683.0	5694.3	5973.2	5912.0	5791.8	5714.7
55°	6181.9	6211.3	6361.0	6585.5	6574.2	6345.1	6476.7	6581.0	6331.5	6084.4	6104.8
57.5°	6381.4	6395.0	6812.3	7261.3	7528.9	7581.1	7431.4	7079.9	6485.7	6009.5	5980.0
60°	5884.8	6014.1	6517.5	7531.2	8753.5	9356.7	8361.2	7136.6	6125.2	5546.9	5503.8
62.5°	4703.3	4710.1	5458.5	6996.0	9515.5	11096.1	8717.2	6603.7	5163.7	4508.3	4335.9
64°	3349.5	3413.0	4272.4	6193.2	9356.7	11803.6	8674.1	5907.5	4256.6	3326.8	3206.6
65°	2403.8	2492.3	3322.2	5376.8	8984.8	11719.7	8544.9	5308.8	3442.4	2539.9	2417.4
67.5°	884.4	920.7	1304.0	2689.5	6451.7	9987.1	6771.5	2918.6	1512.6	1077.2	968.3
70°	410.5	412.7	483.0	889.0	2821.1	6678.5	3231.5	1095.3	569.2	451.3	419.5
72.5°	301.6	308.4	337.9	410.5	830.0	2827.9	1061.3	449.0	333.4	294.8	288.0
75°	244.9	249.5	258.5	297.1	383.2	757.4	430.9	310.7	265.3	238.1	229.0
77.5°	188.2	188.2	208.6	226.8	254.0	353.8	285.7	247.2	215.4	188.2	181.4
80°	136.1	138.3	163.3	176.9	172.3	233.6	206.4	204.1	176.9	147.4	136.1
82.5°	79.4	86.2	117.9	127.0	122.5	138.3	149.7	158.7	138.3	102.0	93.0
85°	45.4	47.6	68.0	70.3	70.3	65.8	86.2	95.2	93.0	63.5	56.7
87.5°	13.6	13.6	18.1	18.1	20.4	22.7	34.0	40.8	45.4	31.7	29.5
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2351.7	2317.6	2319.9	2329.0	2299.5	2310.8	2344.8	2319.9	2313.1	2299.5	2292.7
5°	2340.3	2376.6	2363.0	2367.5	2360.7	2329.0	2324.4	2344.8	2356.2	2335.8	2376.6
7.5°	2419.7	2403.8	2385.7	2392.5	2376.6	2403.8	2422.0	2381.1	2401.5	2390.2	2367.5
10°	2465.0	2435.6	2449.2	2444.6	2433.3	2460.5	2442.4	2437.8	2419.7	2394.7	2431.0
12.5°	2480.9	2514.9	2537.6	2499.1	2505.9	2492.3	2480.9	2480.9	2460.5	2453.7	2460.5
15°	2551.2	2580.7	2571.6	2601.1	2562.6	2576.2	2589.8	2555.7	2573.9	2524.0	2562.6
17.5°	2680.5	2655.5	2687.3	2648.7	2662.3	2689.5	2646.5	2646.5	2660.1	2632.9	2598.8
20°	2762.1	2750.8	2739.4	2741.7	2719.0	2744.0	2730.4	2723.6	2703.2	2712.2	2730.4
22.5°	2839.2	2823.3	2827.9	2834.7	2850.6	2839.2	2832.4	2839.2	2789.3	2834.7	2771.2
25°	2934.5	2977.5	2963.9	2993.4	2948.1	2977.5	2975.3	2932.2	2959.4	2941.3	2927.7
27.5°	3093.2	3070.5	3090.9	3054.7	3086.4	3088.7	3061.5	3134.0	3102.3	3097.7	3088.7
30°	3297.3	3281.4	3267.8	3247.4	3272.4	3251.9	3274.6	3281.4	3251.9	3229.3	3186.2
32.5°	3413.0	3456.0	3471.9	3422.0	3424.3	3435.6	3415.2	3394.8	3413.0	3419.8	3413.0
35°	3576.2	3617.1	3626.1	3587.6	3567.2	3623.9	3583.0	3651.1	3592.1	3594.4	3533.1
37.5°	3766.7	3778.1	3855.2	3812.1	3793.9	3766.7	3841.6	3832.5	3846.1	3737.2	3791.7
40°	3982.2	4023.0	4066.1	3957.2	3954.9	3979.9	3975.4	4027.5	4002.6	3986.7	3948.1
42.5°	4218.0	4304.2	4311.0	4238.4	4193.1	4188.5	4211.2	4326.9	4329.1	4224.8	4179.5
45°	4531.0	4626.2	4601.3	4460.7	4410.8	4404.0	4515.1	4565.0	4608.1	4567.2	4528.7
47.5°	4921.0	4984.5	4966.4	4837.1	4676.1	4721.4	4830.3	4986.8	4941.4	4887.0	4841.6
50°	5338.3	5413.1	5374.6	5245.3	5091.1	5091.1	5224.9	5424.4	5410.8	5304.3	5263.4
52.5°	5800.9	5909.7	5998.2	5814.5	5685.2	5705.6	5916.5	5989.1	5955.1	5880.3	5846.2
55°	6145.6	6354.2	6535.6	6544.7	6551.5	6549.2	6603.7	6676.2	6433.6	6313.4	6190.9
57.5°	6061.7	6456.3	7077.6	7499.4	7624.2	7689.9	7671.8	7336.2	6762.4	6367.8	6408.6
60°	5463.0	6107.0	7109.4	8463.2	9370.3	9279.6	8948.5	7621.9	6581.0	5914.3	5830.4
62.5°	4358.6	5134.2	6576.5	8735.3	11234.4	11207.2	9474.6	6962.0	5483.4	4639.8	4587.6
64°	3283.7	4100.1	5866.7	8665.0	11887.5	11914.7	9340.8	6150.1	4290.6	3283.7	3204.3
65°	2512.7	3270.1	5170.5	8519.9	11746.9	11762.8	8968.9	5311.1	3261.0	2331.2	2245.1
67.5°	1000.1	1392.4	2805.2	6460.8	10086.9	10043.8	6399.6	2569.4	1247.3	811.9	796.0
70°	426.3	530.7	984.2	3061.5	6753.3	6628.6	2755.3	834.5	462.6	387.8	385.5
72.5°	292.5	324.3	421.8	945.6	2807.5	2741.7	784.6	387.8	315.2	290.3	290.3
75°	235.8	258.5	306.1	396.9	743.8	716.6	369.6	285.7	251.7	233.6	231.3
77.5°	183.7	206.4	240.4	274.4	340.2	337.9	247.2	215.4	195.0	181.4	176.9
80°	145.1	167.8	190.5	195.0	222.2	217.7	167.8	170.1	158.7	131.5	129.3
82.5°	99.8	136.1	151.9	138.3	131.5	131.5	120.2	120.2	111.1	81.6	74.8
85°	61.2	90.7	95.2	81.6	61.2	61.2	65.8	63.5	59.0	43.1	40.8
87.5°	31.7	43.1	38.6	31.7	20.4	20.4	18.1	13.6	13.6	11.3	11.3
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)