

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: P478783

Luminaire Tested: **IFLD-S-SA3D-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478783  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

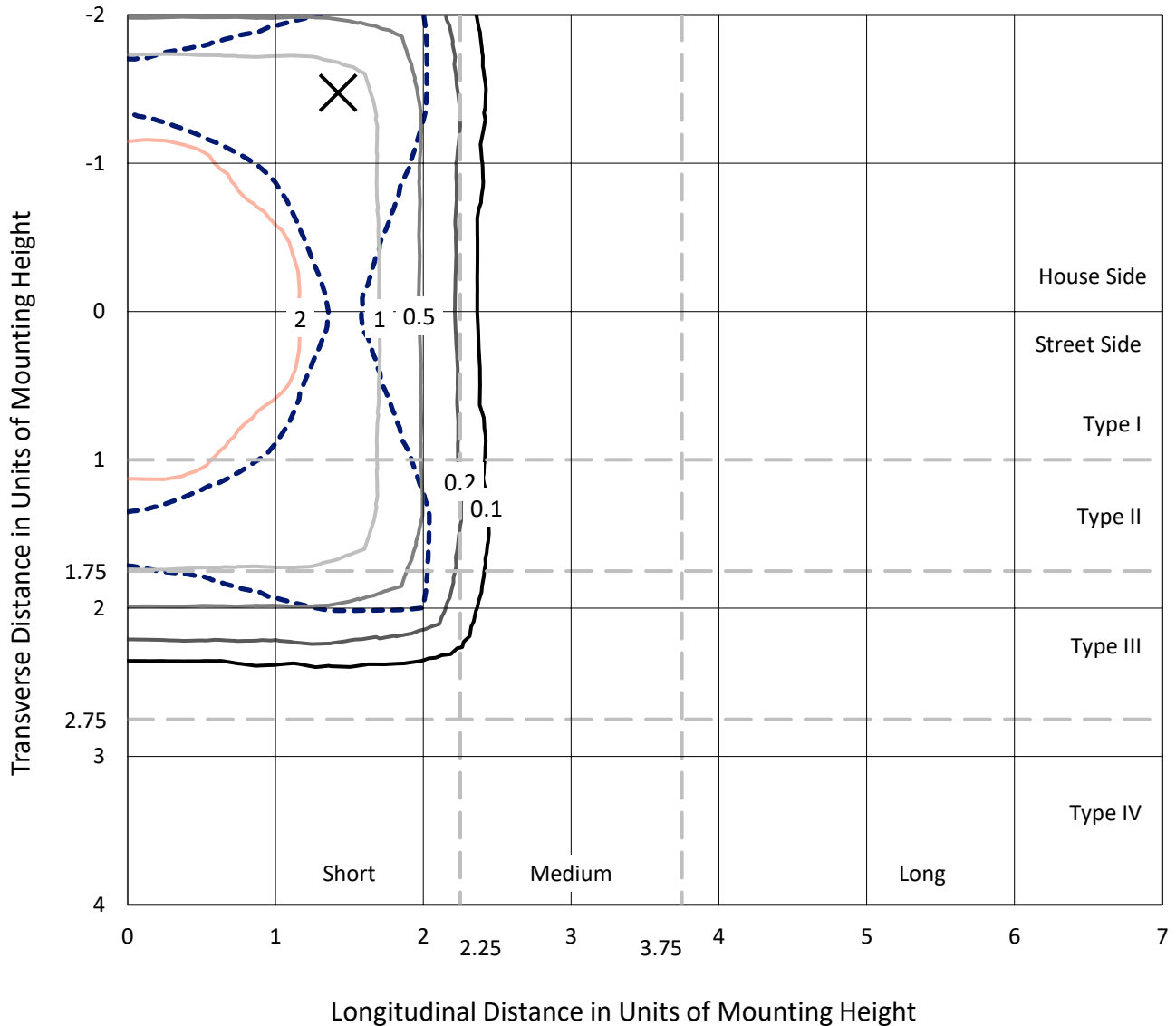
Lumens per Lamp: N/A  
Luminaire Lumens: 17122.9 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1  
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

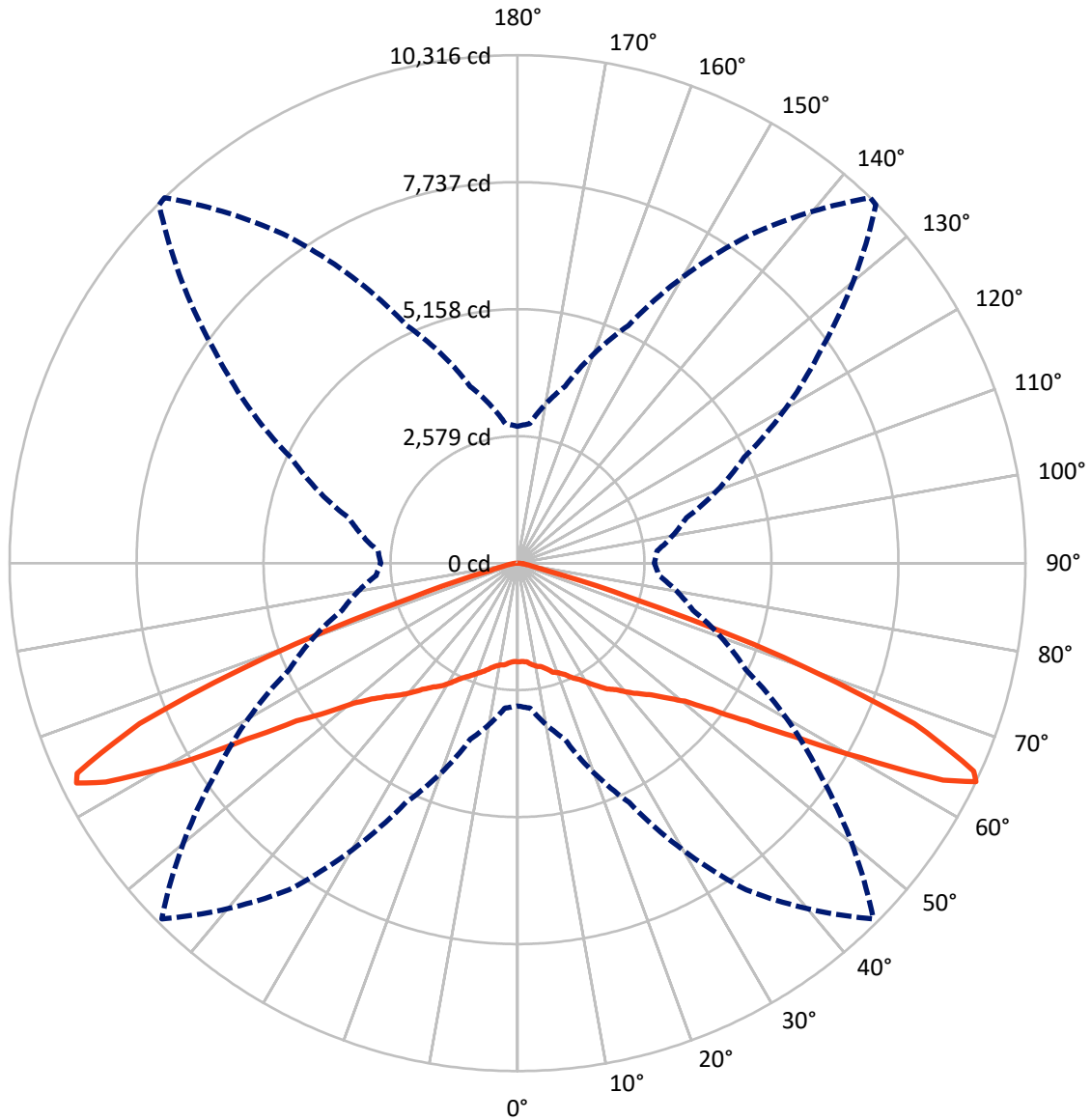
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
<b>House Side</b>	Lumens	8569.6	0.0	8569.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8553.3	0.0	8553.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17122.9	0.0	17122.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.0	1.2
10°-20°	634.9	3.7
20°-30°	1193.2	7.0
30°-40°	1967.8	11.5
40°-50°	3077.4	18.0
50°-60°	4972.4	29.0
60°-70°	4477.3	26.1
70°-80°	530.4	3.1
80°-90°	72.6	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°	17122.9	100.0
0°-180°	17122.9	100.0

**Coefficient of Utilization**



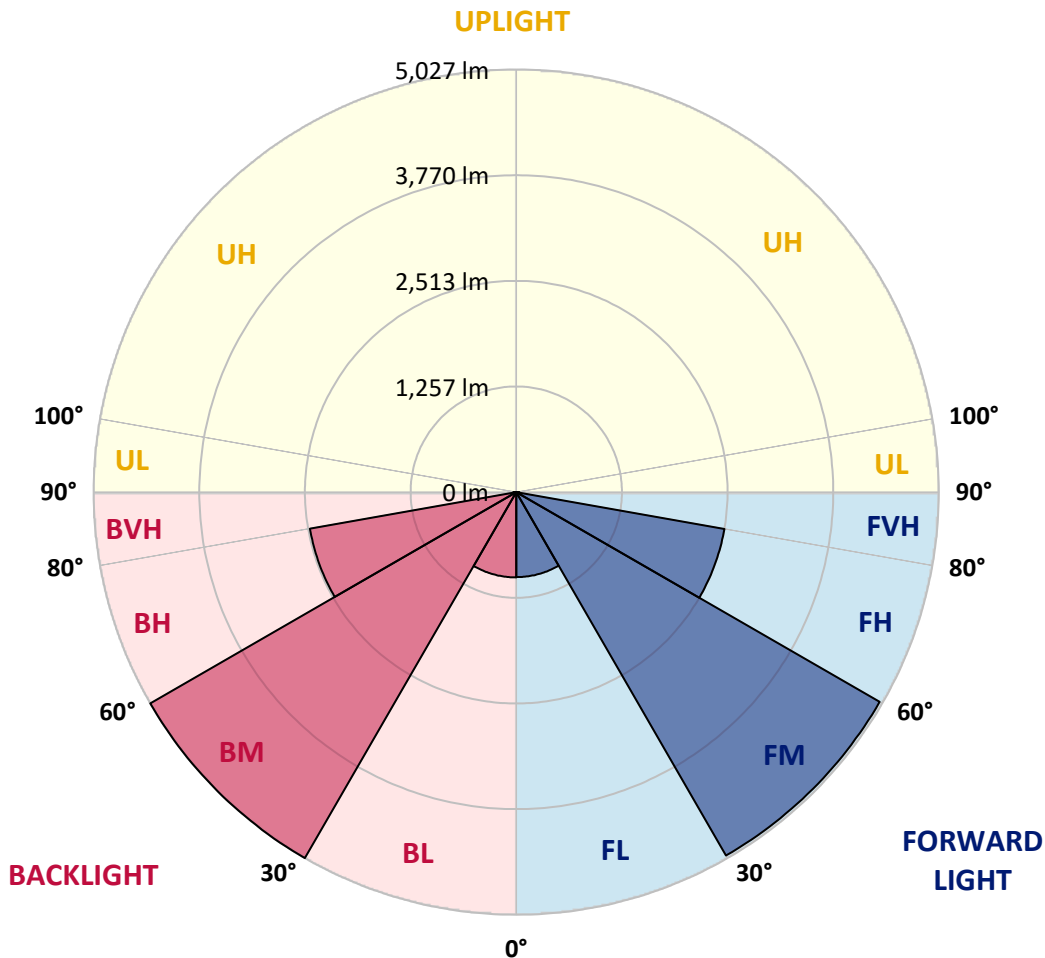
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.6	5.9			
FM (30°-60°)	4990.8	29.1			
FH (60°-80°)	2514.7	14.7			G2/5000
FVH (80°-90°)	37.2	0.2			G1/100
BL (0°-30°)	1014.5	5.9	B3/2500		
BM (30°-60°)	5026.8	29.4	B4/8500		
BH (60°-80°)	2493.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	35.4	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°	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7
2.5°	1981.2	1985.1	2020.4	2006.7	2018.5	1996.9	2012.6	2046.0	2006.7	2036.1	2046.0
5°	2002.8	2008.7	2008.7	2022.4	2030.3	2026.3	2036.1	2022.4	2059.7	2044.0	2067.6
7.5°	2081.3	2071.5	2055.8	2067.6	2069.5	2079.3	2089.2	2106.8	2100.9	2087.2	2110.8
10°	2095.1	2087.2	2110.8	2112.7	2102.9	2095.1	2104.9	2104.9	2122.5	2126.5	2126.5
12.5°	2118.6	2126.5	2124.5	2140.2	2142.2	2136.3	2152.0	2181.4	2173.6	2179.5	2165.7
15°	2208.9	2199.1	2197.2	2212.9	2238.4	2201.1	2228.6	2226.6	2218.8	2230.5	2199.1
17.5°	2287.5	2256.1	2269.8	2295.3	2285.5	2293.4	2328.7	2297.3	2305.1	2291.4	2281.6
20°	2356.2	2330.7	2332.6	2342.5	2342.5	2366.0	2379.8	2368.0	2360.1	2358.2	2362.1
22.5°	2432.8	2403.3	2405.3	2446.5	2460.3	2452.4	2442.6	2462.2	2466.2	2450.4	2468.1
25°	2489.7	2521.1	2531.0	2550.6	2521.1	2542.7	2534.9	2572.2	2595.7	2564.3	2585.9
27.5°	2638.9	2625.2	2650.7	2648.8	2672.3	2650.7	2664.5	2676.3	2686.1	2688.0	2678.2
30°	2772.5	2778.4	2752.8	2821.5	2766.6	2801.9	2825.5	2831.4	2843.1	2843.1	2813.7
32.5°	2913.8	2902.1	2943.3	2927.6	2917.8	2945.3	2919.7	3000.2	2953.1	2980.6	2947.2
35°	3072.9	3072.9	3088.6	3131.8	3072.9	3055.2	3102.3	3135.7	3135.7	3086.6	3098.4
37.5°	3251.6	3235.8	3255.5	3310.5	3265.3	3206.4	3292.8	3306.5	3296.7	3283.0	3259.4
40°	3377.2	3373.3	3412.6	3485.2	3420.4	3408.6	3424.3	3461.7	3473.4	3487.2	3455.8
42.5°	3589.3	3606.9	3720.8	3703.2	3650.1	3608.9	3605.0	3744.4	3711.0	3675.7	3658.0
45°	3903.4	3887.7	3946.6	3948.6	3879.9	3789.6	3809.2	3936.8	3993.8	3915.2	3944.7
47.5°	4152.8	4160.7	4201.9	4286.3	4127.3	4033.0	4105.7	4311.8	4294.2	4264.7	4292.2
50°	4486.6	4521.9	4651.5	4622.1	4480.7	4364.9	4523.9	4718.3	4739.9	4631.9	4612.3
52.5°	4948.0	5003.0	5073.7	5097.2	4961.8	4920.5	4930.3	5171.9	5118.8	5014.8	4948.0
55°	5352.5	5378.0	5507.6	5702.0	5692.2	5493.9	5607.8	5698.1	5482.1	5268.1	5285.7
57.5°	5525.3	5537.1	5898.4	6287.1	6518.8	6564.0	6434.4	6130.0	5615.6	5203.3	5177.7
60°	5095.3	5207.2	5643.1	6520.8	7579.1	8101.4	7239.4	6179.1	5303.4	4802.7	4765.4
62.5°	4072.3	4078.2	4726.1	6057.4	8238.8	9607.4	7547.7	5717.7	4470.9	3903.4	3754.2
64°	2900.1	2955.1	3699.2	5362.3	8101.4	10220.0	7510.4	5114.9	3685.5	2880.5	2776.4
65°	2081.3	2157.9	2876.5	4655.5	7779.4	10147.4	7398.5	4596.6	2980.6	2199.1	2093.1
67.5°	765.8	797.2	1129.0	2328.7	5586.2	8647.3	5863.0	2527.0	1309.7	932.7	838.4
70°	355.4	357.4	418.2	769.7	2442.6	5782.5	2798.0	948.4	492.8	390.7	363.2
72.5°	261.1	267.0	292.6	355.4	718.6	2448.5	918.9	388.8	288.6	255.3	249.4
75°	212.1	216.0	223.8	257.2	331.8	655.8	373.1	269.0	229.7	206.2	198.3
77.5°	163.0	163.0	180.6	196.4	219.9	306.3	247.4	214.0	186.5	163.0	157.1
80°	117.8	119.8	141.4	153.2	149.2	202.2	178.7	176.7	153.2	127.6	117.8
82.5°	68.7	74.6	102.1	110.0	106.0	119.8	129.6	137.4	119.8	88.4	80.5
85°	39.3	41.2	58.9	60.9	60.9	56.9	74.6	82.5	80.5	55.0	49.1
87.5°	11.8	11.8	15.7	15.7	17.7	19.6	29.5	35.3	39.3	27.5	25.5
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°	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7	2004.7
2.5°	2036.1	2006.7	2008.7	2016.5	1991.0	2000.8	2030.3	2008.7	2002.8	1991.0	1985.1
5°	2026.3	2057.7	2046.0	2049.9	2044.0	2016.5	2012.6	2030.3	2040.1	2022.4	2057.7
7.5°	2095.1	2081.3	2065.6	2071.5	2057.7	2081.3	2097.0	2061.7	2079.3	2069.5	2049.9
10°	2134.3	2108.8	2120.6	2116.7	2106.8	2130.4	2114.7	2110.8	2095.1	2073.5	2104.9
12.5°	2148.1	2177.5	2197.2	2163.8	2169.7	2157.9	2148.1	2148.1	2130.4	2124.5	2130.4
15°	2208.9	2234.5	2226.6	2252.1	2218.8	2230.5	2242.3	2212.9	2228.6	2185.4	2218.8
17.5°	2320.9	2299.3	2326.7	2293.4	2305.1	2328.7	2291.4	2291.4	2303.2	2279.6	2250.2
20°	2391.5	2381.7	2371.9	2373.9	2354.2	2375.8	2364.1	2358.2	2340.5	2348.3	2364.1
22.5°	2458.3	2444.6	2448.5	2454.4	2468.1	2458.3	2452.4	2458.3	2415.1	2454.4	2399.4
25°	2540.8	2578.1	2566.3	2591.8	2552.6	2578.1	2576.1	2538.8	2562.4	2546.7	2534.9
27.5°	2678.2	2658.6	2676.3	2644.8	2672.3	2674.3	2650.7	2713.6	2686.1	2682.1	2674.3
30°	2854.9	2841.2	2829.4	2811.7	2833.3	2815.7	2835.3	2841.2	2815.7	2796.0	2758.7
32.5°	2955.1	2992.4	3006.1	2962.9	2964.9	2974.7	2957.0	2939.4	2955.1	2961.0	2955.1
35°	3096.4	3131.8	3139.6	3106.3	3088.6	3137.7	3102.3	3161.2	3110.2	3112.1	3059.1
37.5°	3261.4	3271.2	3338.0	3300.6	3284.9	3261.4	3326.2	3318.3	3330.1	3235.8	3283.0
40°	3447.9	3483.2	3520.6	3426.3	3424.3	3445.9	3442.0	3487.2	3465.6	3451.8	3418.5
42.5°	3652.1	3726.7	3732.6	3669.8	3630.5	3626.6	3646.2	3746.4	3748.3	3658.0	3618.7
45°	3923.1	4005.5	3983.9	3862.2	3819.0	3813.1	3909.3	3952.5	3989.8	3954.5	3921.1
47.5°	4260.8	4315.8	4300.1	4188.1	4048.7	4088.0	4182.3	4317.7	4278.5	4231.3	4192.1
50°	4622.1	4686.9	4653.5	4541.6	4408.1	4408.1	4523.9	4696.7	4684.9	4592.6	4557.3
52.5°	5022.6	5116.9	5193.5	5034.4	4922.5	4940.2	5122.8	5185.6	5156.2	5091.4	5061.9
55°	5321.1	5501.7	5658.8	5666.7	5672.6	5670.6	5717.7	5780.5	5570.5	5466.4	5360.4
57.5°	5248.4	5590.1	6128.1	6493.3	6601.3	6658.2	6642.5	6351.9	5855.2	5513.5	5548.9
60°	4730.1	5287.7	6155.6	7327.8	8113.2	8034.6	7748.0	6599.3	5698.1	5120.8	5048.2
62.5°	3773.8	4445.4	5694.2	7563.4	9727.2	9703.6	8203.5	6027.9	4747.7	4017.3	3972.2
64°	2843.1	3550.0	5079.6	7502.5	10292.7	10316.2	8087.7	5325.0	3714.9	2843.1	2774.4
65°	2175.6	2831.4	4476.8	7376.9	10170.9	10184.7	7765.6	4598.5	2823.5	2018.5	1943.9
67.5°	865.9	1205.6	2428.8	5594.0	8733.6	8696.3	5541.0	2224.6	1079.9	702.9	689.2
70°	369.1	459.5	852.2	2650.7	5847.3	5739.3	2385.7	722.6	400.6	335.8	333.8
72.5°	253.3	280.8	365.2	818.8	2430.8	2373.9	679.4	335.8	272.9	251.3	251.3
75°	204.2	223.8	265.1	343.6	644.0	620.5	320.1	247.4	217.9	202.2	200.3
77.5°	159.0	178.7	208.1	237.6	294.5	292.6	214.0	186.5	168.9	157.1	153.2
80°	125.7	145.3	164.9	168.9	192.4	188.5	145.3	147.3	137.4	113.9	111.9
82.5°	86.4	117.8	131.6	119.8	113.9	113.9	104.1	104.1	96.2	70.7	64.8
85°	53.0	78.5	82.5	70.7	53.0	53.0	56.9	55.0	51.1	37.3	35.3
87.5°	27.5	37.3	33.4	27.5	17.7	17.7	15.7	11.8	11.8	9.8	9.8
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)