

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: P478822

Luminaire Tested: **IFLD-S-SA3D-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478822  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

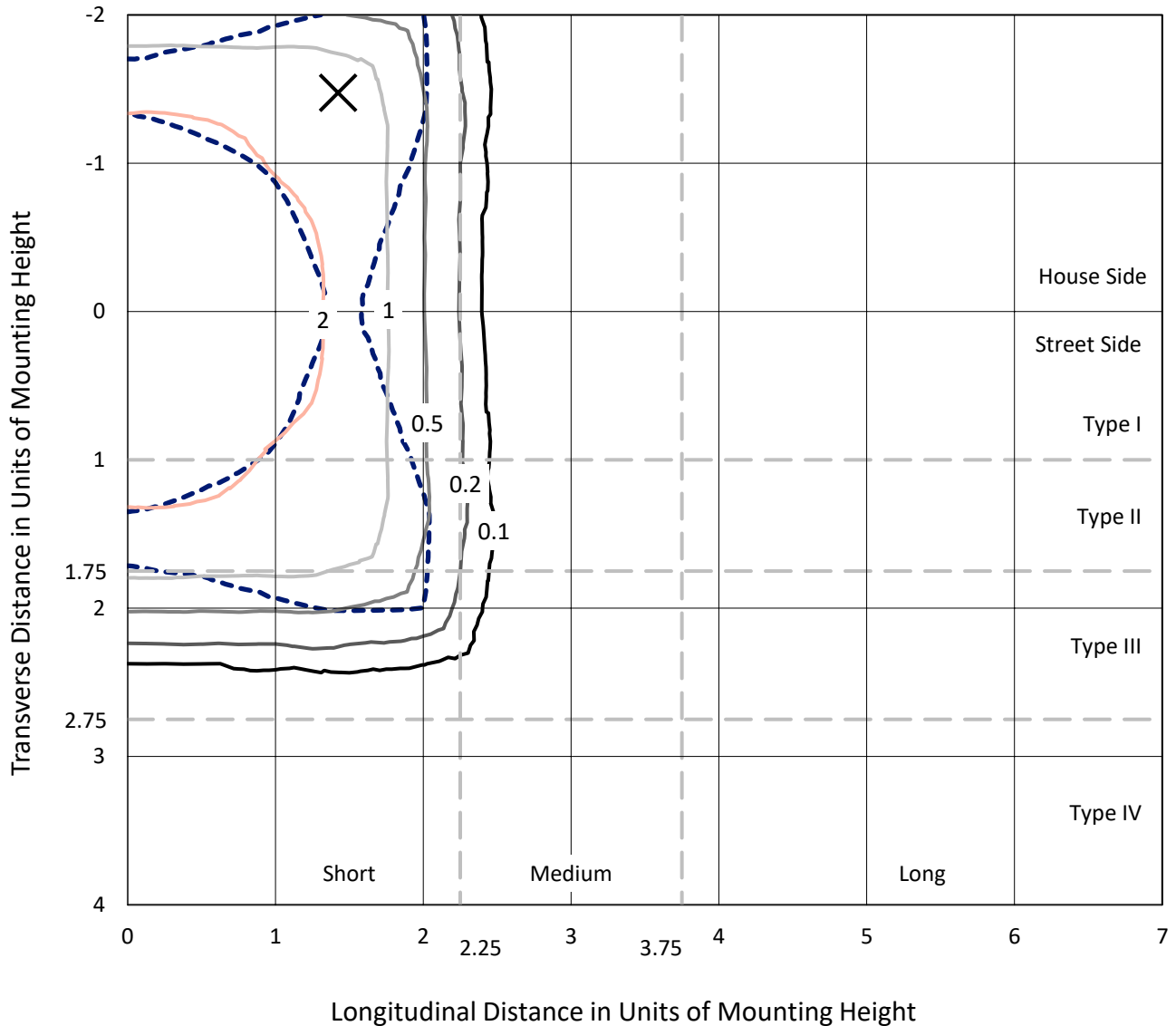
Lumens per Lamp: N/A  
Luminaire Lumens: 19440.5 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

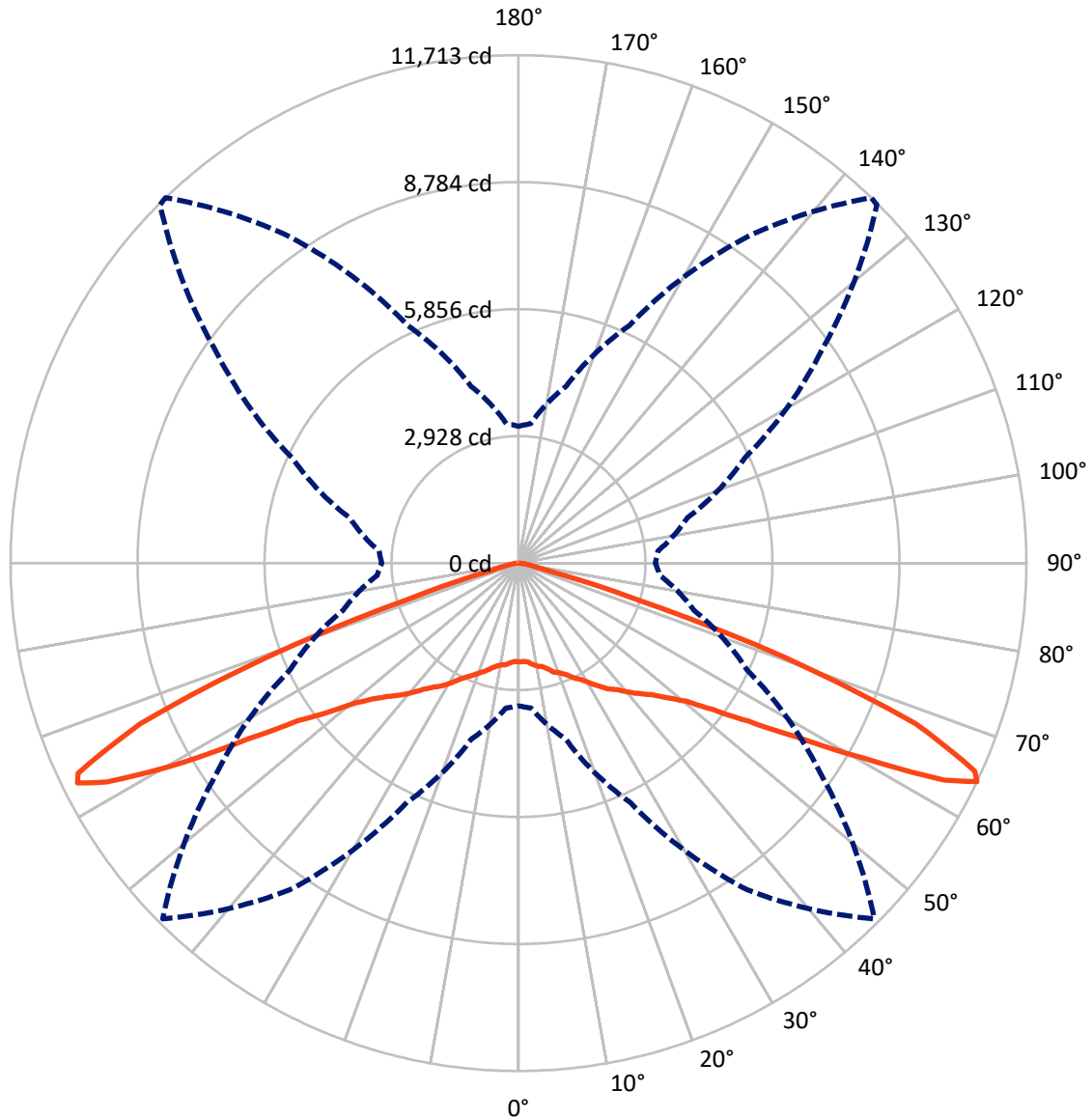
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	9729.5	0.0	9729.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9711.0	0.0	9711.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19440.5	0.0	19440.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.6	1.2
10°-20°	720.8	3.7
20°-30°	1354.7	7.0
30°-40°	2234.1	11.5
40°-50°	3494.0	18.0
50°-60°	5645.4	29.0
60°-70°	5083.3	26.1
70°-80°	602.1	3.1
80°-90°	82.4	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°	19440.5	100.0
0°-180°	19440.5	100.0

**Coefficient of Utilization**



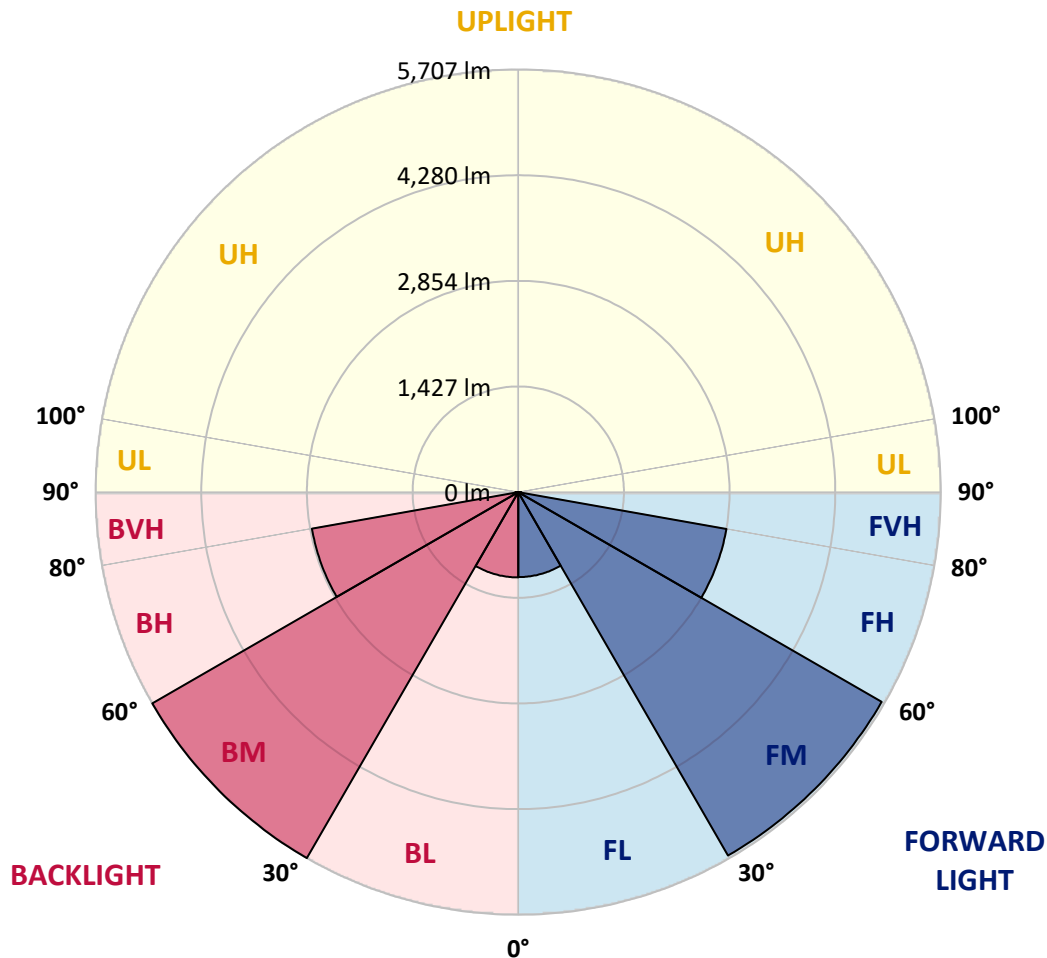
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.3	5.9			
FM (30°-60°)	5666.3	29.1			
FH (60°-80°)	2855.0	14.7			G2/5000
FVH (80°-90°)	42.3	0.2			G1/100
BL (0°-30°)	1151.8	5.9	B3/2500		
BM (30°-60°)	5707.2	29.4	B4/8500		
BH (60°-80°)	2830.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	40.1	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°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2249.3	2253.8	2293.9	2278.3	2291.7	2267.2	2285.0	2322.9	2278.3	2311.7	2322.9
5°	2273.8	2280.5	2280.5	2296.1	2305.1	2300.6	2311.7	2296.1	2338.5	2320.7	2347.4
7.5°	2363.0	2351.9	2334.0	2347.4	2349.6	2360.8	2371.9	2392.0	2385.3	2369.7	2396.5
10°	2378.6	2369.7	2396.5	2398.7	2387.5	2378.6	2389.8	2389.8	2409.8	2414.3	2414.3
12.5°	2405.4	2414.3	2412.1	2429.9	2432.1	2425.4	2443.3	2476.7	2467.8	2474.5	2458.9
15°	2507.9	2496.8	2494.5	2512.4	2541.4	2499.0	2530.2	2528.0	2519.1	2532.4	2496.8
17.5°	2597.1	2561.4	2577.0	2606.0	2594.9	2603.8	2643.9	2608.2	2617.2	2601.6	2590.4
20°	2675.1	2646.1	2648.4	2659.5	2659.5	2686.3	2701.9	2688.5	2679.6	2677.3	2681.8
22.5°	2762.1	2728.6	2730.8	2777.7	2793.3	2784.3	2773.2	2795.5	2800.0	2782.1	2802.2
25°	2826.7	2862.4	2873.5	2895.8	2862.4	2886.9	2878.0	2920.3	2947.1	2911.4	2935.9
27.5°	2996.1	2980.5	3009.5	3007.3	3034.0	3009.5	3025.1	3038.5	3049.6	3051.9	3040.7
30°	3147.7	3154.4	3125.4	3203.5	3141.0	3181.2	3207.9	3214.6	3228.0	3228.0	3194.5
32.5°	3308.2	3294.9	3341.7	3323.8	3312.7	3343.9	3314.9	3406.3	3352.8	3384.0	3346.1
35°	3488.8	3488.8	3506.6	3555.7	3488.8	3468.7	3522.2	3560.1	3560.1	3504.4	3517.8
37.5°	3691.7	3673.8	3696.1	3758.5	3707.3	3640.4	3738.5	3754.1	3742.9	3727.3	3700.6
40°	3834.3	3829.9	3874.5	3956.9	3883.4	3870.0	3887.8	3930.2	3943.6	3959.2	3923.5
42.5°	4075.1	4095.2	4224.5	4204.4	4144.2	4097.4	4092.9	4251.2	4213.3	4173.2	4153.1
45°	4431.8	4413.9	4480.8	4483.0	4405.0	4302.5	4324.8	4469.7	4534.3	4445.2	4478.6
47.5°	4714.9	4723.8	4770.6	4866.5	4685.9	4578.9	4661.4	4895.5	4875.4	4842.0	4873.2
50°	5093.9	5134.0	5281.1	5247.7	5087.2	4955.7	5136.2	5356.9	5381.4	5258.8	5236.5
52.5°	5617.7	5680.2	5760.4	5787.2	5633.3	5586.5	5597.7	5871.9	5811.7	5693.5	5617.7
55°	6077.0	6106.0	6253.1	6473.8	6462.6	6237.5	6366.8	6469.3	6224.1	5981.1	6001.2
57.5°	6273.1	6286.5	6696.7	7138.1	7401.2	7452.4	7305.3	6959.8	6375.7	5907.5	5878.6
60°	5784.9	5912.0	6406.9	7403.4	8605.0	9197.9	8219.3	7015.5	6021.2	5452.8	5410.4
62.5°	4623.5	4630.2	5365.8	6877.3	9354.0	10907.8	8569.3	6491.6	5076.0	4431.8	4262.4
64°	3292.6	3355.0	4199.9	6088.1	9197.9	11603.3	8526.9	5807.2	4184.3	3270.3	3152.2
65°	2363.0	2450.0	3265.9	5285.6	8832.3	11520.8	8399.9	5218.7	3384.0	2496.8	2376.4
67.5°	869.4	905.1	1281.8	2643.9	6342.3	9817.7	6656.6	2869.1	1486.9	1058.9	951.9
70°	403.5	405.7	474.8	873.9	2773.2	6565.2	3176.7	1076.7	559.5	443.6	412.4
72.5°	296.5	303.2	332.2	403.5	815.9	2779.9	1043.3	441.4	327.7	289.8	283.1
75°	240.8	245.2	254.1	292.0	376.7	744.6	423.6	305.4	260.8	234.1	225.2
77.5°	185.0	185.0	205.1	222.9	249.7	347.8	280.9	243.0	211.8	185.0	178.3
80°	133.8	136.0	160.5	173.9	169.4	229.6	202.9	200.6	173.9	144.9	133.8
82.5°	78.0	84.7	115.9	124.8	120.4	136.0	147.1	156.0	136.0	100.3	91.4
85°	44.6	46.8	66.9	69.1	69.1	64.6	84.7	93.6	91.4	62.4	55.7
87.5°	13.4	13.4	17.8	17.8	20.1	22.3	33.4	40.1	44.6	31.2	29.0
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°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2311.7	2278.3	2280.5	2289.5	2260.5	2271.6	2305.1	2280.5	2273.8	2260.5	2253.8
5°	2300.6	2336.3	2322.9	2327.4	2320.7	2289.5	2285.0	2305.1	2316.2	2296.1	2336.3
7.5°	2378.6	2363.0	2345.2	2351.9	2336.3	2363.0	2380.9	2340.7	2360.8	2349.6	2327.4
10°	2423.2	2394.2	2407.6	2403.1	2392.0	2418.8	2400.9	2396.5	2378.6	2354.1	2389.8
12.5°	2438.8	2472.3	2494.5	2456.6	2463.3	2450.0	2438.8	2438.8	2418.8	2412.1	2418.8
15°	2507.9	2536.9	2528.0	2557.0	2519.1	2532.4	2545.8	2512.4	2530.2	2481.2	2519.1
17.5°	2635.0	2610.5	2641.7	2603.8	2617.2	2643.9	2601.6	2601.6	2614.9	2588.2	2554.7
20°	2715.2	2704.1	2692.9	2695.2	2672.9	2697.4	2684.0	2677.3	2657.3	2666.2	2684.0
22.5°	2791.0	2775.4	2779.9	2786.6	2802.2	2791.0	2784.3	2791.0	2742.0	2786.6	2724.2
25°	2884.7	2927.0	2913.6	2942.6	2898.0	2927.0	2924.8	2882.4	2909.2	2891.4	2878.0
27.5°	3040.7	3018.4	3038.5	3002.8	3034.0	3036.3	3009.5	3080.8	3049.6	3045.2	3036.3
30°	3241.3	3225.7	3212.4	3192.3	3216.8	3196.8	3219.1	3225.7	3196.8	3174.5	3132.1
32.5°	3355.0	3397.4	3413.0	3364.0	3366.2	3377.3	3357.3	3337.2	3355.0	3361.7	3355.0
35°	3515.5	3555.7	3564.6	3526.7	3506.6	3562.4	3522.2	3589.1	3531.2	3533.4	3473.2
37.5°	3702.8	3714.0	3789.7	3747.4	3729.6	3702.8	3776.4	3767.5	3780.8	3673.8	3727.3
40°	3914.6	3954.7	3997.1	3890.1	3887.8	3912.4	3907.9	3959.2	3934.6	3919.0	3881.1
42.5°	4146.4	4231.1	4237.8	4166.5	4121.9	4117.4	4139.7	4253.4	4255.7	4153.1	4108.5
45°	4454.1	4547.7	4523.2	4385.0	4335.9	4329.2	4438.5	4487.5	4529.9	4489.7	4451.8
47.5°	4837.5	4899.9	4882.1	4755.0	4596.7	4641.3	4748.3	4902.1	4857.6	4804.1	4759.5
50°	5247.7	5321.3	5283.4	5156.3	5004.7	5004.7	5136.2	5332.4	5319.0	5214.2	5174.1
52.5°	5702.5	5809.5	5896.4	5715.8	5588.8	5608.8	5816.1	5887.5	5854.0	5780.5	5747.0
55°	6041.3	6246.4	6424.7	6433.7	6440.3	6438.1	6491.6	6563.0	6324.4	6206.3	6085.9
57.5°	5958.8	6346.7	6957.5	7372.2	7494.8	7559.4	7541.6	7211.7	6647.7	6259.8	6299.9
60°	5370.3	6003.4	6988.7	8319.6	9211.3	9122.1	8796.7	7492.6	6469.3	5813.9	5731.4
62.5°	4284.6	5047.1	6464.9	8587.1	11043.8	11017.0	9313.9	6843.8	5390.4	4561.1	4509.8
64°	3228.0	4030.5	5767.1	8518.0	11685.8	11712.5	9182.3	6045.8	4217.8	3228.0	3149.9
65°	2470.0	3214.6	5082.7	8375.3	11547.6	11563.2	8816.7	5220.9	3205.7	2291.7	2207.0
67.5°	983.1	1368.8	2757.6	6351.2	9915.8	9873.4	6291.0	2525.8	1226.1	798.1	782.5
70°	419.1	521.6	967.5	3009.5	6638.7	6516.1	2708.6	820.4	454.8	381.2	379.0
72.5°	287.6	318.8	414.6	929.6	2759.8	2695.2	771.3	381.2	309.9	285.3	285.3
75°	231.8	254.1	301.0	390.1	731.2	704.4	363.4	280.9	247.4	229.6	227.4
77.5°	180.6	202.9	236.3	269.7	334.4	332.2	243.0	211.8	191.7	178.3	173.9
80°	142.7	165.0	187.3	191.7	218.5	214.0	165.0	167.2	156.0	129.3	127.1
82.5°	98.1	133.8	149.4	136.0	129.3	129.3	118.2	118.2	109.2	80.3	73.6
85°	60.2	89.2	93.6	80.3	60.2	60.2	64.6	62.4	58.0	42.4	40.1
87.5°	31.2	42.4	37.9	31.2	20.1	20.1	17.8	13.4	13.4	11.1	11.1
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)