

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: P479251

Luminaire Tested: **IFLD-S-SA3D-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479251
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

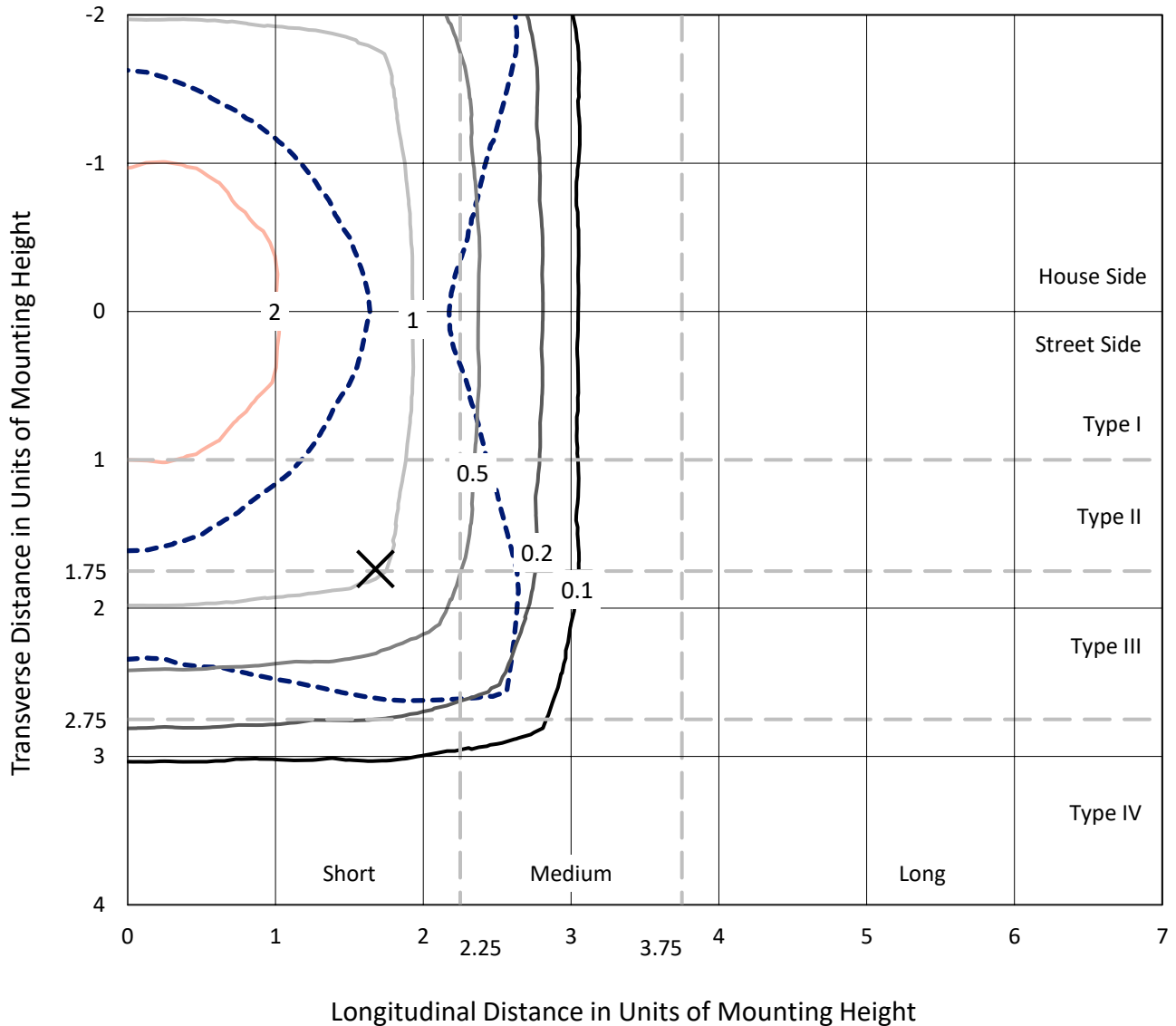
Lumens per Lamp: N/A
Luminaire Lumens: 21423.1 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

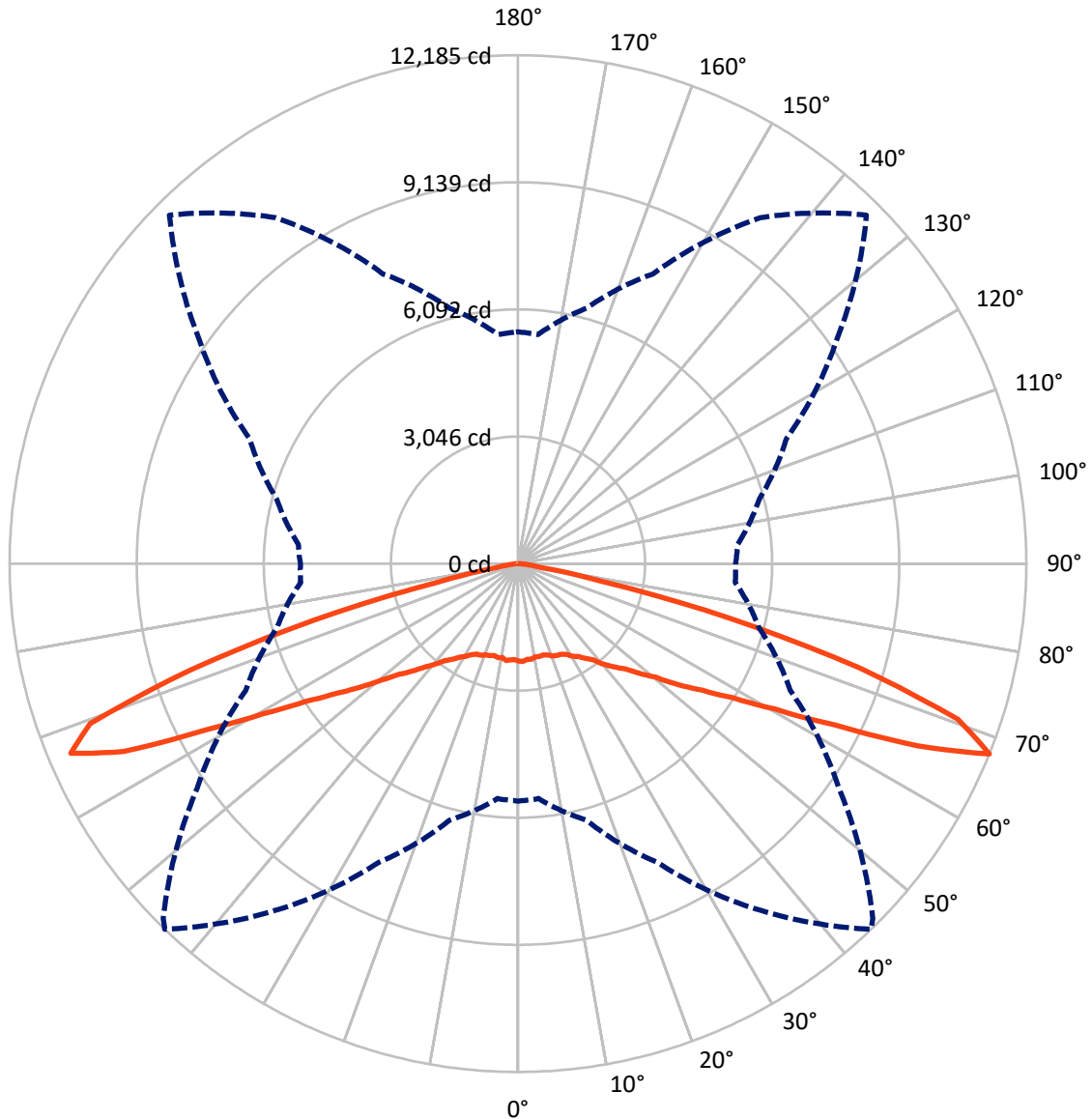
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10684.1	0.0	10684.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10739.0	0.0	10739.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	21423.1	0.0	21423.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	1.0
10°-20°	646.9	3.0
20°-30°	1100.2	5.1
30°-40°	1744.3	8.1
40°-50°	2844.3	13.3
50°-60°	4857.7	22.7
60°-70°	7388.5	34.5
70°-80°	2490.4	11.6
80°-90°	129.3	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°	21423.1	100.0
0°-180°	21423.1	100.0

Coefficient of Utilization



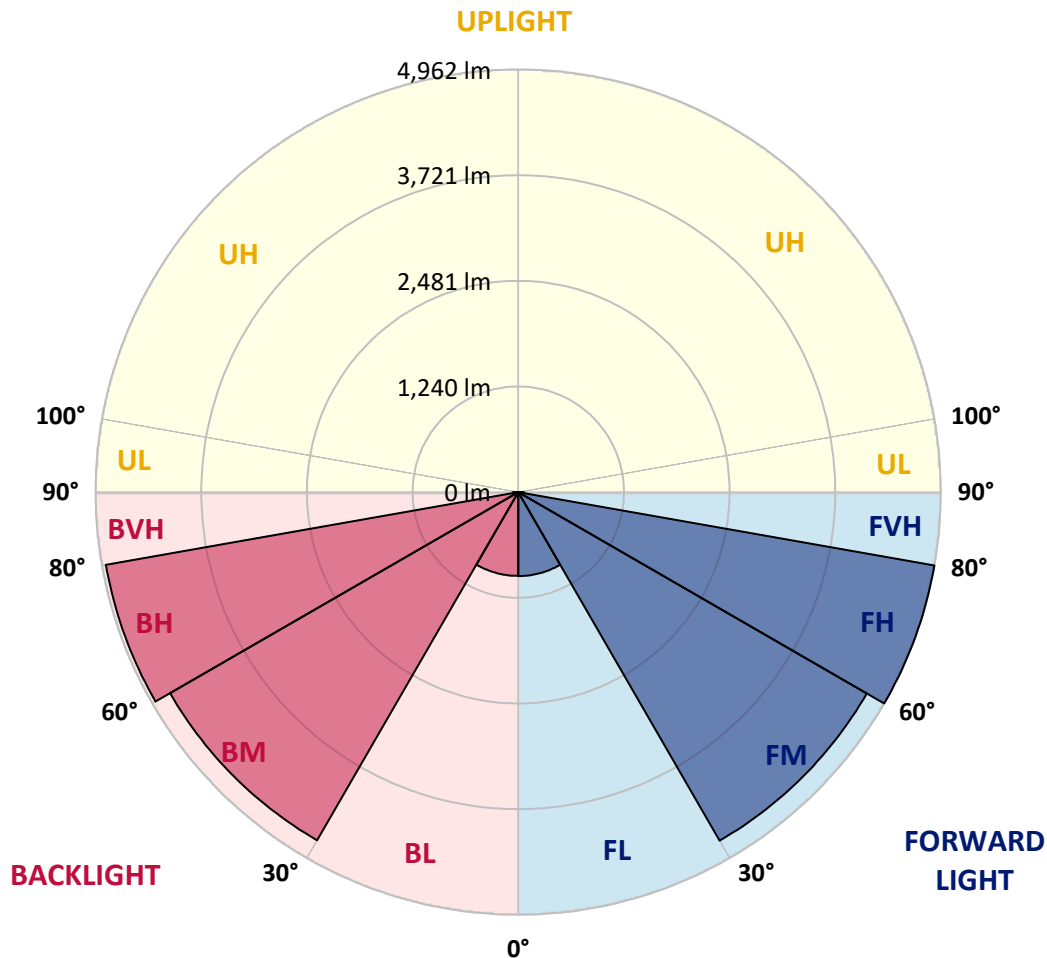
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.3	4.6			
FM (30°-60°)	4725.7	22.1			
FH (60°-80°)	4961.8	23.2			G2/5000
FVH (80°-90°)	66.1	0.3			G1/100
BL (0°-30°)	983.3	4.6	B2/1000		
BM (30°-60°)	4720.6	22.0	B3/5000		
BH (60°-80°)	4917.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	63.2	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1
2.5°	2286.3	2313.2	2332.8	2330.3	2337.7	2345.0	2335.2	2349.9	2340.1	2357.2	2367.0
5°	2330.3	2323.0	2325.4	2310.8	2345.0	2305.9	2305.9	2325.4	2349.9	2320.5	2337.7
7.5°	2303.4	2298.5	2286.3	2308.3	2315.6	2315.6	2335.2	2298.5	2340.1	2349.9	2352.3
10°	2274.1	2247.2	2283.9	2305.9	2310.8	2271.6	2288.7	2298.5	2286.3	2298.5	2305.9
12.5°	2249.6	2264.3	2264.3	2264.3	2257.0	2283.9	2301.0	2298.5	2274.1	2296.1	2257.0
15°	2247.2	2239.8	2261.9	2281.4	2269.2	2274.1	2281.4	2303.4	2257.0	2266.7	2266.7
17.5°	2244.7	2254.5	2261.9	2259.4	2301.0	2301.0	2293.6	2279.0	2315.6	2296.1	2269.2
20°	2254.5	2247.2	2266.7	2274.1	2303.4	2362.1	2340.1	2327.9	2308.3	2283.9	2283.9
22.5°	2266.7	2261.9	2288.7	2320.5	2376.8	2391.4	2389.0	2374.3	2340.1	2310.8	2305.9
25°	2310.8	2266.7	2296.1	2357.2	2376.8	2406.1	2425.7	2406.1	2359.7	2367.0	2323.0
27.5°	2376.8	2369.4	2408.6	2450.1	2433.0	2459.9	2442.8	2457.5	2459.9	2423.2	2379.2
30°	2455.0	2433.0	2457.5	2538.2	2545.5	2574.8	2545.5	2506.4	2518.6	2486.8	2464.8
32.5°	2567.5	2560.2	2606.6	2660.4	2670.2	2655.5	2640.9	2662.9	2611.5	2587.1	2547.9
35°	2640.9	2672.7	2728.9	2770.5	2802.2	2787.6	2794.9	2772.9	2785.1	2733.8	2716.7
37.5°	2858.5	2846.3	2858.5	2929.4	2936.7	2929.4	2936.7	2961.2	2944.1	2900.1	2856.0
40°	3063.9	3044.3	3073.7	3154.4	3149.5	3173.9	3125.0	3151.9	3151.9	3068.8	3051.7
42.5°	3217.9	3284.0	3318.2	3384.2	3408.7	3386.7	3376.9	3381.8	3435.6	3337.8	3301.1
45°	3535.8	3533.4	3636.1	3672.8	3604.3	3599.4	3579.8	3638.5	3675.2	3619.0	3604.3
47.5°	3880.6	3897.7	3956.4	3971.1	4012.6	3936.8	3936.8	3944.2	4073.8	3941.7	3873.3
50°	4191.1	4213.2	4330.5	4445.5	4367.2	4286.5	4318.3	4357.4	4428.3	4303.6	4244.9
52.5°	4567.7	4687.5	4765.8	4826.9	4883.2	4826.9	4753.6	4797.6	4936.9	4770.7	4697.3
55°	5110.6	5205.9	5279.3	5391.8	5438.2	5362.4	5355.1	5350.2	5428.4	5252.4	5152.1
57.5°	5717.0	5677.9	5795.2	5968.8	6137.6	6064.2	6042.2	6047.1	6066.7	5817.2	5741.4
60°	6470.1	6514.1	6653.5	6805.1	6983.6	7086.3	6942.0	6858.9	6876.0	6536.1	6418.8
62.5°	6900.5	6998.3	7313.7	7834.6	8194.0	8514.3	8536.3	7995.9	7634.1	6973.8	6475.0
65°	6692.6	6678.0	7272.2	8235.6	9597.6	10529.2	10389.8	9079.2	7815.0	6766.0	6096.0
67.5°	5692.5	5653.4	6372.3	7900.6	10150.2	12184.7	12025.7	9384.8	7203.7	5986.0	5227.9
70°	3667.9	3658.1	4438.1	6022.6	9062.1	11187.0	11245.7	8524.1	5863.7	4384.3	3633.6
72.5°	1332.7	1413.4	1865.7	3237.5	6154.7	8558.4	8595.0	6311.2	3372.0	2027.1	1494.0
75°	491.5	506.2	589.3	1051.5	2804.7	5254.8	5391.8	3061.4	1198.2	660.2	538.0
77.5°	283.6	286.1	315.4	391.2	831.4	2051.6	2134.7	929.2	464.6	352.1	325.2
80°	193.2	190.7	222.5	254.3	332.6	582.0	618.6	388.8	293.4	244.5	205.4
82.5°	112.5	119.8	163.8	180.9	203.0	256.8	261.6	242.1	220.1	180.9	134.5
85°	68.5	56.2	90.5	100.3	117.4	114.9	114.9	132.0	141.8	127.2	75.8
87.5°	17.1	17.1	22.0	24.5	31.8	24.5	26.9	51.4	68.5	63.6	39.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1	2340.1
2.5°	2345.0	2337.7	2342.5	2369.4	2352.3	2301.0	2313.2	2340.1	2318.1	2305.9	2303.4
5°	2335.2	2349.9	2332.8	2337.7	2354.8	2313.2	2320.5	2354.8	2340.1	2345.0	2318.1
7.5°	2337.7	2345.0	2330.3	2308.3	2308.3	2342.5	2323.0	2327.9	2305.9	2342.5	2293.6
10°	2323.0	2303.4	2286.3	2298.5	2293.6	2283.9	2276.5	2291.2	2269.2	2301.0	2266.7
12.5°	2279.0	2283.9	2279.0	2274.1	2283.9	2308.3	2269.2	2274.1	2239.8	2244.7	2261.9
15°	2261.9	2276.5	2271.6	2298.5	2310.8	2274.1	2303.4	2274.1	2247.2	2232.5	2259.4
17.5°	2269.2	2291.2	2283.9	2303.4	2281.4	2308.3	2313.2	2301.0	2269.2	2257.0	2269.2
20°	2276.5	2269.2	2279.0	2313.2	2345.0	2318.1	2318.1	2310.8	2281.4	2264.3	2264.3
22.5°	2293.6	2281.4	2296.1	2323.0	2332.8	2374.3	2337.7	2320.5	2271.6	2227.6	2269.2
25°	2327.9	2335.2	2345.0	2335.2	2389.0	2384.1	2379.2	2367.0	2291.2	2293.6	2286.3
27.5°	2393.9	2352.3	2364.6	2423.2	2430.6	2450.1	2425.7	2447.7	2367.0	2369.4	2320.5
30°	2474.6	2430.6	2469.7	2521.0	2518.6	2555.3	2543.1	2547.9	2491.7	2459.9	2393.9
32.5°	2562.6	2557.7	2582.2	2614.0	2626.2	2645.8	2643.3	2643.3	2609.1	2525.9	2538.2
35°	2660.4	2694.7	2724.0	2758.2	2763.1	2787.6	2753.3	2758.2	2724.0	2662.9	2682.4
37.5°	2853.6	2851.2	2882.9	2924.5	2929.4	2909.8	2936.7	2924.5	2878.1	2836.5	2804.7
40°	3078.6	3029.7	3059.0	3156.8	3164.1	3129.9	3127.5	3125.0	3090.8	3000.3	2980.8
42.5°	3274.2	3337.8	3332.9	3364.7	3342.6	3325.5	3386.7	3352.4	3325.5	3230.2	3213.1
45°	3526.0	3545.6	3609.2	3711.9	3606.7	3606.7	3648.3	3621.4	3606.7	3535.8	3469.8
47.5°	3839.0	3856.1	3983.3	3990.6	3922.2	3875.7	4005.3	4010.2	3949.1	3895.3	3814.6
50°	4205.8	4213.2	4328.1	4445.5	4369.7	4281.6	4413.7	4465.0	4328.1	4254.7	4154.5
52.5°	4609.3	4587.3	4682.6	4902.7	4829.4	4802.5	4944.3	4956.5	4770.7	4655.7	4682.6
55°	5073.9	5044.5	5303.7	5452.9	5406.4	5357.5	5421.1	5450.4	5301.3	5113.0	5179.0
57.5°	5675.4	5690.1	5819.7	5966.4	6042.2	6054.4	6083.8	6054.4	5902.8	5712.1	5651.0
60°	6276.9	6321.0	6572.8	6849.1	6873.6	7088.8	7049.6	6902.9	6687.7	6416.3	6428.5
62.5°	6499.5	6462.8	6868.7	7543.6	8118.2	8511.9	8338.3	7817.4	7318.6	6824.7	6861.4
65°	6052.0	6142.5	6695.1	7751.4	8998.5	10556.1	9631.8	8191.6	7184.1	6545.9	6475.0
67.5°	5215.7	5284.2	5986.0	7101.0	9313.9	11813.0	10120.9	7663.4	6335.6	5509.1	5553.1
70°	3633.6	3667.9	4355.0	5817.2	8445.9	11147.9	9130.5	5885.7	4374.5	3486.9	3535.8
72.5°	1462.3	1545.4	1997.8	3504.0	6235.4	8470.3	6147.3	3088.3	1814.4	1349.8	1225.1
75°	540.4	542.8	638.2	1205.5	2961.2	5323.3	2772.9	992.8	579.5	474.4	452.4
77.5°	313.0	310.5	332.6	435.3	858.3	2078.5	787.4	388.8	315.4	283.6	271.4
80°	195.6	193.2	227.4	288.5	376.6	569.7	332.6	242.1	212.7	183.4	183.4
82.5°	124.7	127.2	178.5	212.7	229.9	251.9	193.2	171.2	158.9	105.1	102.7
85°	80.7	73.4	124.7	141.8	127.2	112.5	107.6	90.5	83.1	51.4	56.2
87.5°	36.7	39.1	63.6	70.9	46.5	26.9	26.9	19.6	19.6	12.2	12.2
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)