

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: P479269

Luminaire Tested: **IFLD-M-SA4B-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479269
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

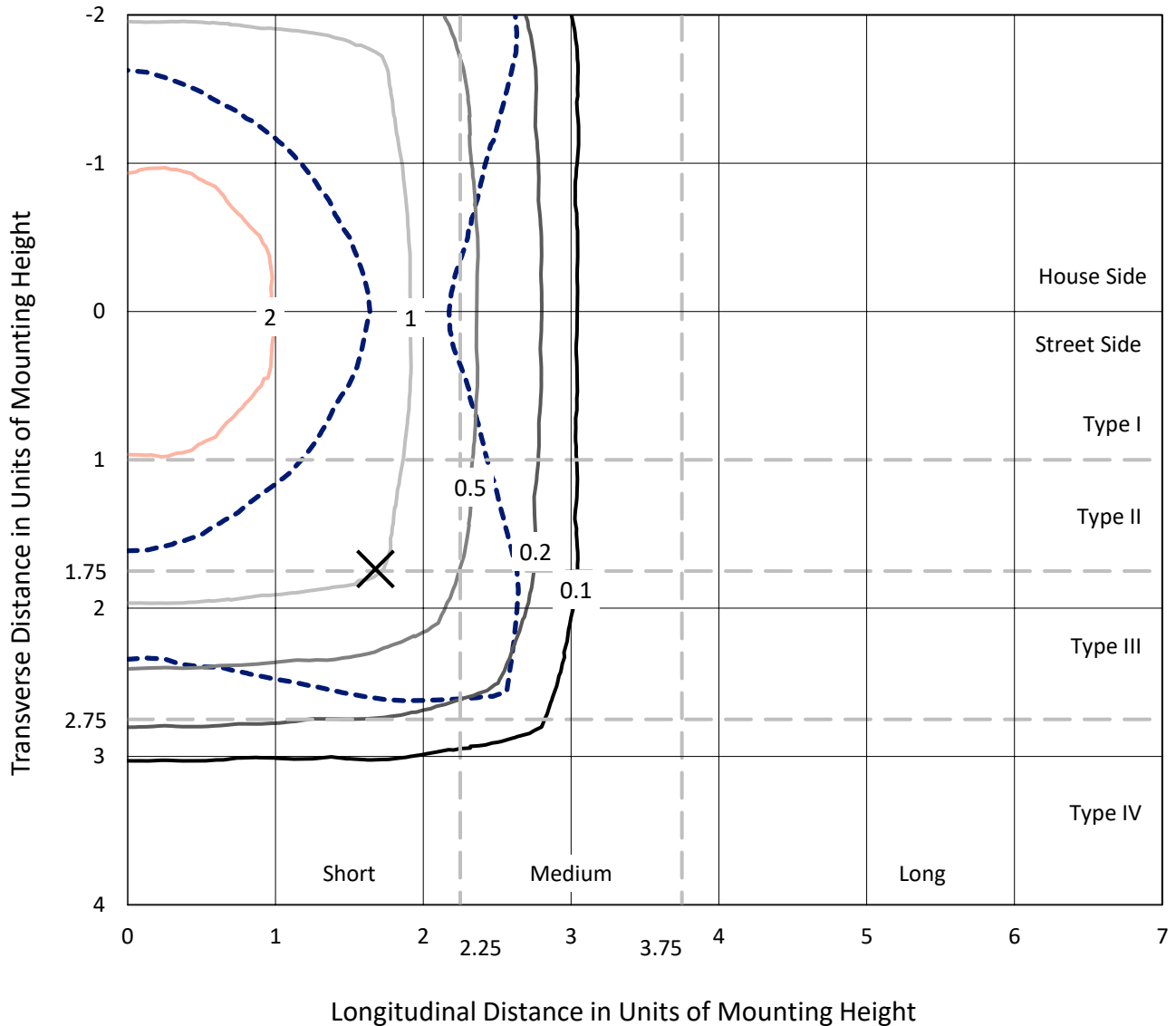
Lumens per Lamp: N/A
Luminaire Lumens: 20993.3 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

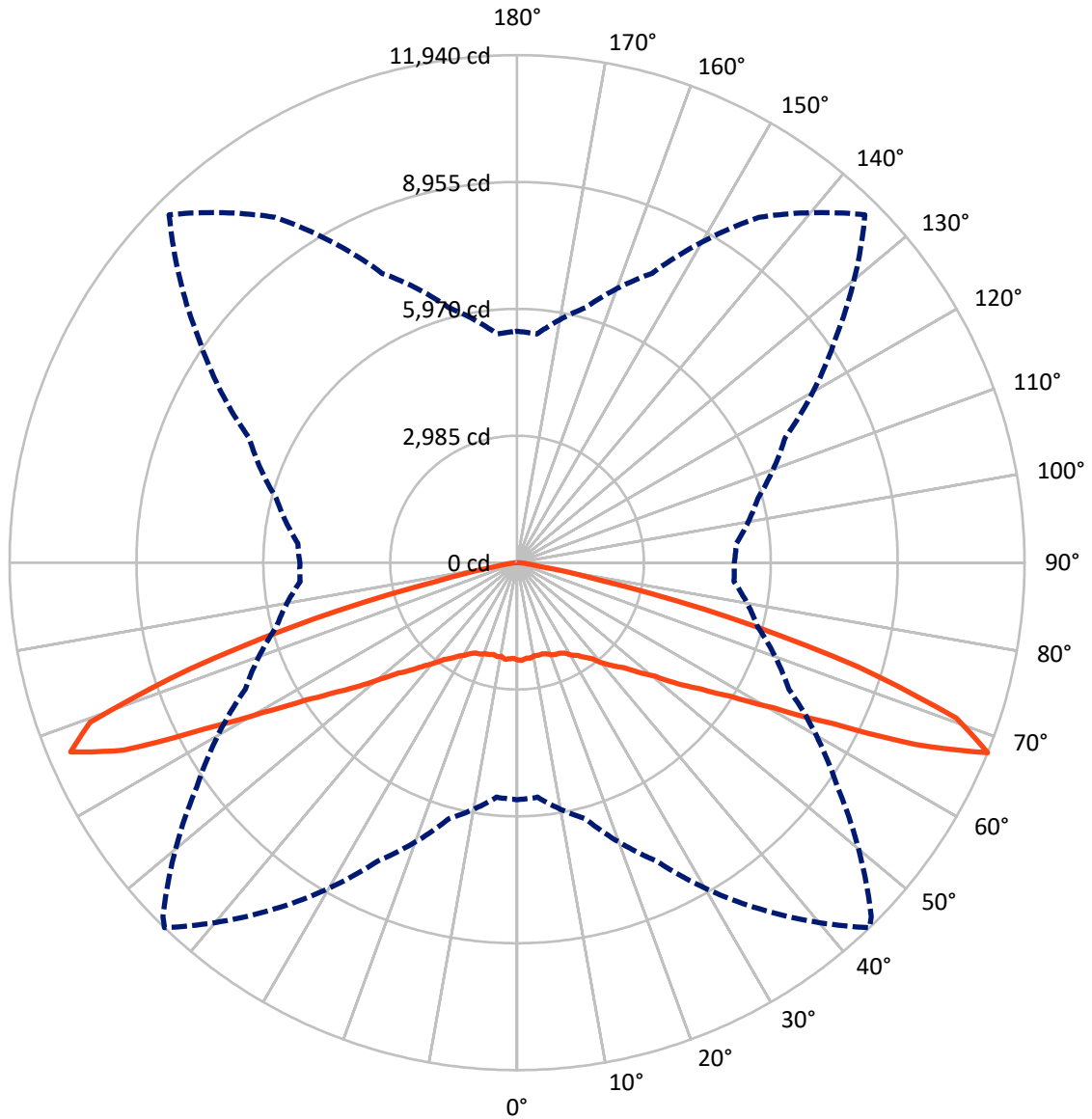
× Max cd
 - - - 1/2 Max cd



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	10469.8	0.0	10469.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10523.5	0.0	10523.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	20993.3	0.0	20993.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	1.0
10°-20°	634.0	3.0
20°-30°	1078.1	5.1
30°-40°	1709.3	8.1
40°-50°	2787.3	13.3
50°-60°	4760.2	22.7
60°-70°	7240.3	34.5
70°-80°	2440.4	11.6
80°-90°	126.7	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°	20993.3	100.0
0°-180°	20993.3	100.0

Coefficient of Utilization



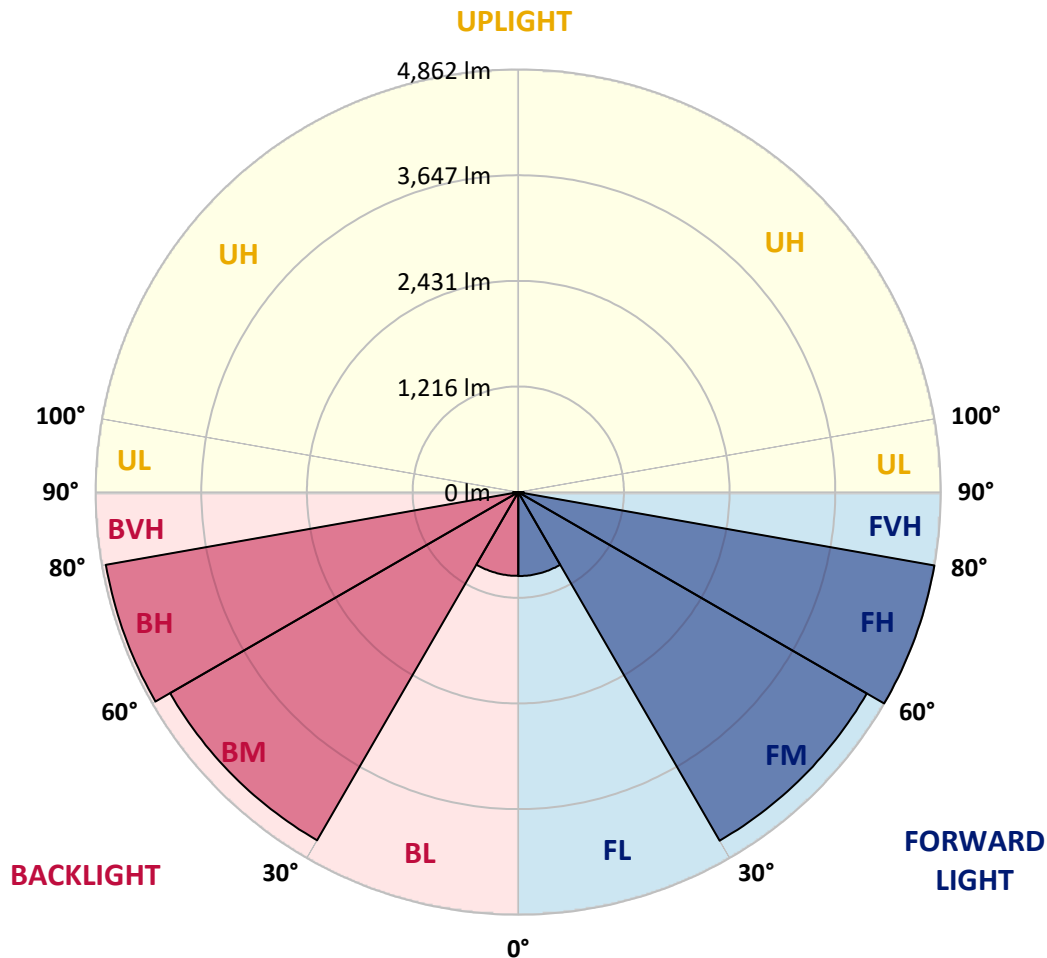
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.5	4.6			
FM (30°-60°)	4630.9	22.1			
FH (60°-80°)	4862.3	23.2			G2/5000
FVH (80°-90°)	64.8	0.3			G1/100
BL (0°-30°)	963.5	4.6	B2/1000		
BM (30°-60°)	4625.9	22.0	B3/5000		
BH (60°-80°)	4818.4	23.0	B4/5000		G2/5000
BVH (80°-90°)	61.9	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°	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2
2.5°	2240.4	2266.8	2286.0	2283.6	2290.8	2297.9	2288.4	2302.7	2293.2	2309.9	2319.5
5°	2283.6	2276.4	2278.8	2264.4	2297.9	2259.6	2259.6	2278.8	2302.7	2274.0	2290.8
7.5°	2257.2	2252.4	2240.4	2262.0	2269.2	2269.2	2288.4	2252.4	2293.2	2302.7	2305.1
10°	2228.5	2202.1	2238.0	2259.6	2264.4	2226.1	2242.8	2252.4	2240.4	2252.4	2259.6
12.5°	2204.5	2218.9	2218.9	2218.9	2211.7	2238.0	2254.8	2252.4	2228.5	2250.0	2211.7
15°	2202.1	2194.9	2216.5	2235.6	2223.7	2228.5	2235.6	2257.2	2211.7	2221.3	2221.3
17.5°	2199.7	2209.3	2216.5	2214.1	2254.8	2254.8	2247.6	2233.2	2269.2	2250.0	2223.7
20°	2209.3	2202.1	2221.3	2228.5	2257.2	2314.7	2293.2	2281.2	2262.0	2238.0	2238.0
22.5°	2221.3	2216.5	2242.8	2274.0	2329.1	2343.5	2341.1	2326.7	2293.2	2264.4	2259.6
25°	2264.4	2221.3	2250.0	2309.9	2329.1	2357.9	2377.0	2357.9	2312.3	2319.5	2276.4
27.5°	2329.1	2321.9	2360.2	2401.0	2384.2	2410.6	2393.8	2408.2	2410.6	2374.6	2331.5
30°	2405.8	2384.2	2408.2	2487.2	2494.4	2523.2	2494.4	2456.1	2468.1	2436.9	2415.4
32.5°	2516.0	2508.8	2554.3	2607.1	2616.6	2602.3	2587.9	2609.5	2559.1	2535.2	2496.8
35°	2587.9	2619.0	2674.1	2714.9	2746.0	2731.7	2738.8	2717.3	2729.3	2678.9	2662.2
37.5°	2801.1	2789.2	2801.1	2870.6	2877.8	2870.6	2877.8	2901.8	2885.0	2841.9	2798.7
40°	3002.4	2983.3	3012.0	3091.1	3086.3	3110.3	3062.3	3088.7	3088.7	3007.2	2990.4
42.5°	3153.4	3218.1	3251.6	3316.3	3340.3	3318.7	3309.1	3313.9	3366.6	3270.8	3234.9
45°	3464.9	3462.5	3563.1	3599.1	3532.0	3527.2	3508.0	3565.5	3601.5	3546.4	3532.0
47.5°	3802.8	3819.5	3877.0	3891.4	3932.1	3857.9	3857.9	3865.1	3992.1	3862.7	3795.6
50°	4107.1	4128.6	4243.7	4356.3	4279.6	4200.5	4231.7	4270.0	4339.5	4217.3	4159.8
52.5°	4476.1	4593.5	4670.2	4730.1	4785.2	4730.1	4658.2	4701.3	4837.9	4675.0	4603.1
55°	5008.0	5101.5	5173.4	5283.6	5329.1	5254.8	5247.7	5242.9	5319.5	5147.0	5048.8
57.5°	5602.3	5564.0	5679.0	5849.1	6014.4	5942.6	5921.0	5925.8	5944.9	5700.5	5626.3
60°	6340.3	6383.4	6520.0	6668.6	6843.5	6944.2	6802.8	6721.3	6738.1	6405.0	6290.0
62.5°	6762.0	6857.9	7167.0	7677.4	8029.6	8343.5	8365.1	7835.5	7480.9	6833.9	6345.1
65°	6558.4	6544.0	7126.3	8070.4	9405.0	10318.0	10181.4	8897.1	7658.2	6630.3	5973.7
67.5°	5578.3	5540.0	6244.5	7742.1	9946.6	11940.2	11784.5	9196.6	7059.2	5865.9	5123.1
70°	3594.3	3584.7	4349.1	5901.8	8880.3	10962.6	11020.1	8353.1	5746.1	4296.4	3560.7
72.5°	1305.9	1385.0	1828.3	3172.6	6031.2	8386.7	8422.6	6184.6	3304.3	1986.4	1464.1
75°	481.6	496.0	577.5	1030.4	2748.4	5149.4	5283.6	3000.0	1174.1	647.0	527.2
77.5°	278.0	280.4	309.1	383.4	814.7	2010.4	2091.9	910.6	455.3	345.1	318.7
80°	189.3	186.9	218.1	249.2	325.9	570.3	606.2	381.0	287.5	239.6	201.3
82.5°	110.2	117.4	160.5	177.3	198.9	251.6	256.4	237.2	215.7	177.3	131.8
85°	67.1	55.1	88.7	98.2	115.0	112.6	112.6	129.4	139.0	124.6	74.3
87.5°	16.8	16.8	21.6	24.0	31.2	24.0	26.4	50.3	67.1	62.3	38.3
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°	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2	2293.2
2.5°	2297.9	2290.8	2295.5	2321.9	2305.1	2254.8	2266.8	2293.2	2271.6	2259.6	2257.2
5°	2288.4	2302.7	2286.0	2290.8	2307.5	2266.8	2274.0	2307.5	2293.2	2297.9	2271.6
7.5°	2290.8	2297.9	2283.6	2262.0	2262.0	2295.5	2276.4	2281.2	2259.6	2295.5	2247.6
10°	2276.4	2257.2	2240.4	2252.4	2247.6	2238.0	2230.9	2245.2	2223.7	2254.8	2221.3
12.5°	2233.2	2238.0	2233.2	2228.5	2238.0	2262.0	2223.7	2228.5	2194.9	2199.7	2216.5
15°	2216.5	2230.9	2226.1	2252.4	2264.4	2228.5	2257.2	2228.5	2202.1	2187.7	2214.1
17.5°	2223.7	2245.2	2238.0	2257.2	2235.6	2262.0	2266.8	2254.8	2223.7	2211.7	2223.7
20°	2230.9	2223.7	2233.2	2266.8	2297.9	2271.6	2271.6	2264.4	2235.6	2218.9	2218.9
22.5°	2247.6	2235.6	2250.0	2276.4	2286.0	2326.7	2290.8	2274.0	2226.1	2182.9	2223.7
25°	2281.2	2288.4	2297.9	2288.4	2341.1	2336.3	2331.5	2319.5	2245.2	2247.6	2240.4
27.5°	2345.9	2305.1	2317.1	2374.6	2381.8	2401.0	2377.0	2398.6	2319.5	2321.9	2274.0
30°	2424.9	2381.8	2420.2	2470.5	2468.1	2504.0	2492.0	2496.8	2441.7	2410.6	2345.9
32.5°	2511.2	2506.4	2530.4	2561.5	2573.5	2592.7	2590.3	2590.3	2556.7	2475.3	2487.2
35°	2607.1	2640.6	2669.4	2702.9	2707.7	2731.7	2698.1	2702.9	2669.4	2609.5	2628.6
37.5°	2796.4	2794.0	2825.1	2865.8	2870.6	2851.5	2877.8	2865.8	2820.3	2779.6	2748.4
40°	3016.8	2968.9	2997.6	3093.5	3100.7	3067.1	3064.7	3062.3	3028.8	2940.1	2921.0
42.5°	3208.5	3270.8	3266.0	3297.2	3275.6	3258.8	3318.7	3285.2	3258.8	3165.4	3148.6
45°	3455.3	3474.5	3536.8	3637.4	3534.4	3534.4	3575.1	3548.8	3534.4	3464.9	3400.2
47.5°	3762.0	3778.8	3903.4	3910.6	3843.5	3798.0	3925.0	3929.8	3869.8	3817.1	3738.1
50°	4121.4	4128.6	4241.3	4356.3	4282.0	4195.7	4325.1	4375.4	4241.3	4169.4	4071.1
52.5°	4516.8	4495.3	4588.7	4804.4	4732.5	4706.1	4845.1	4857.1	4675.0	4562.3	4588.7
55°	4972.1	4943.3	5197.3	5343.5	5298.0	5250.1	5312.4	5341.1	5194.9	5010.4	5075.1
57.5°	5561.6	5575.9	5702.9	5846.7	5921.0	5933.0	5961.7	5933.0	5784.4	5597.5	5537.6
60°	6151.0	6194.2	6441.0	6711.7	6735.7	6946.6	6908.2	6764.4	6553.6	6287.6	6299.6
62.5°	6369.1	6333.1	6730.9	7392.2	7955.3	8341.1	8171.0	7660.6	7171.8	6687.8	6723.7
65°	5930.6	6019.2	6560.8	7595.9	8818.0	10344.4	9438.6	8027.2	7040.0	6414.6	6345.1
67.5°	5111.1	5178.2	5865.9	6958.5	9127.1	11576.0	9917.8	7509.7	6208.5	5398.6	5441.7
70°	3560.7	3594.3	4267.6	5700.5	8276.4	10924.2	8947.4	5767.6	4286.8	3417.0	3464.9
72.5°	1432.9	1514.4	1957.7	3433.7	6110.3	8300.4	6024.0	3026.4	1778.0	1322.7	1200.5
75°	529.6	532.0	625.4	1181.3	2901.8	5216.5	2717.3	972.9	567.9	464.9	443.3
77.5°	306.7	304.3	325.9	426.5	841.1	2036.8	771.6	381.0	309.1	278.0	266.0
80°	191.7	189.3	222.8	282.8	369.0	558.3	325.9	237.2	208.5	179.7	179.7
82.5°	122.2	124.6	174.9	208.5	225.2	246.8	189.3	167.7	155.8	103.0	100.6
85°	79.1	71.9	122.2	139.0	124.6	110.2	105.4	88.7	81.5	50.3	55.1
87.5°	35.9	38.3	62.3	69.5	45.5	26.4	26.4	19.2	19.2	12.0	12.0
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)