

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: P479329

Luminaire Tested: **IFLD-S-SA3D-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479329
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

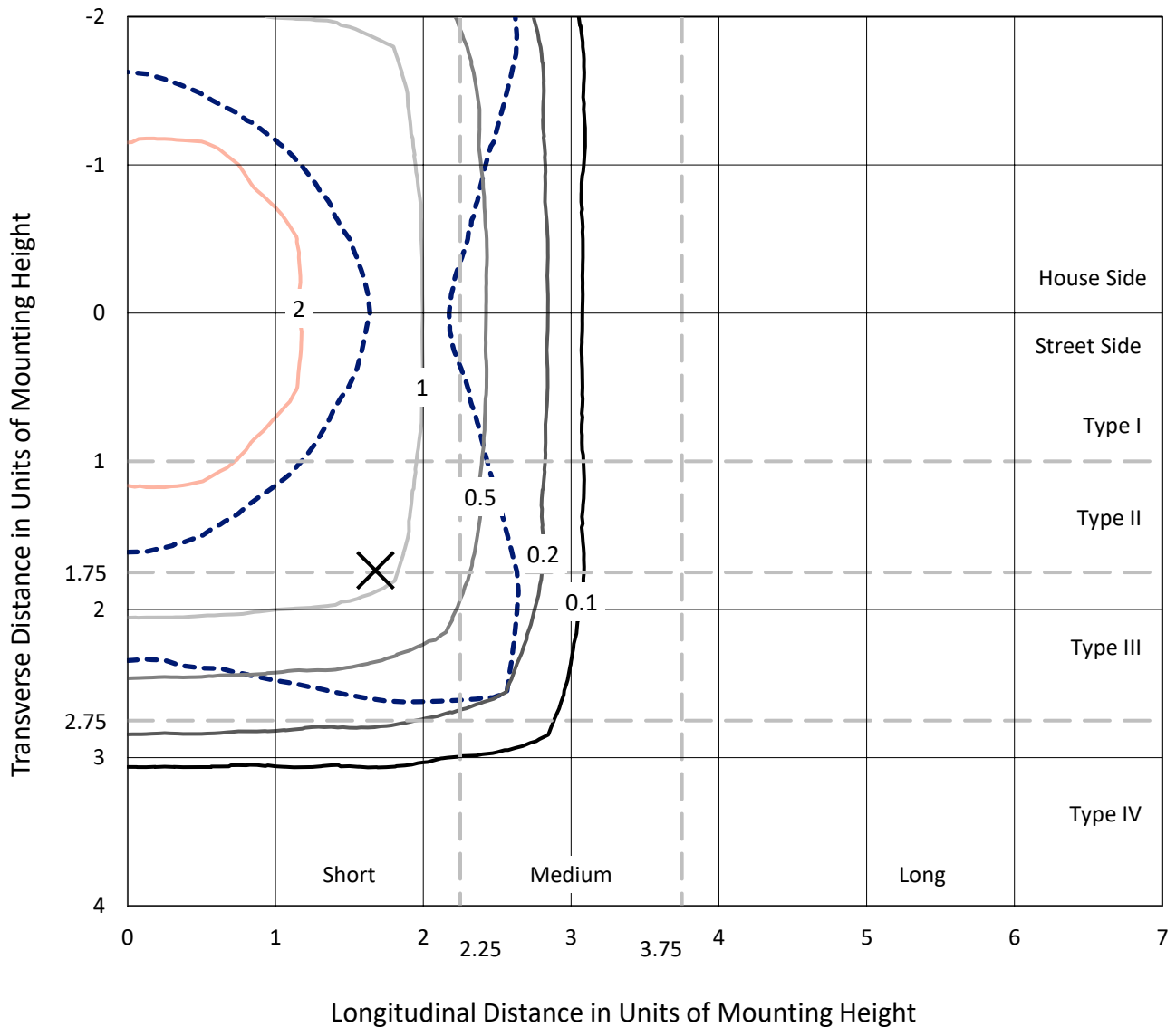
Lumens per Lamp: N/A
Luminaire Lumens: 23526.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

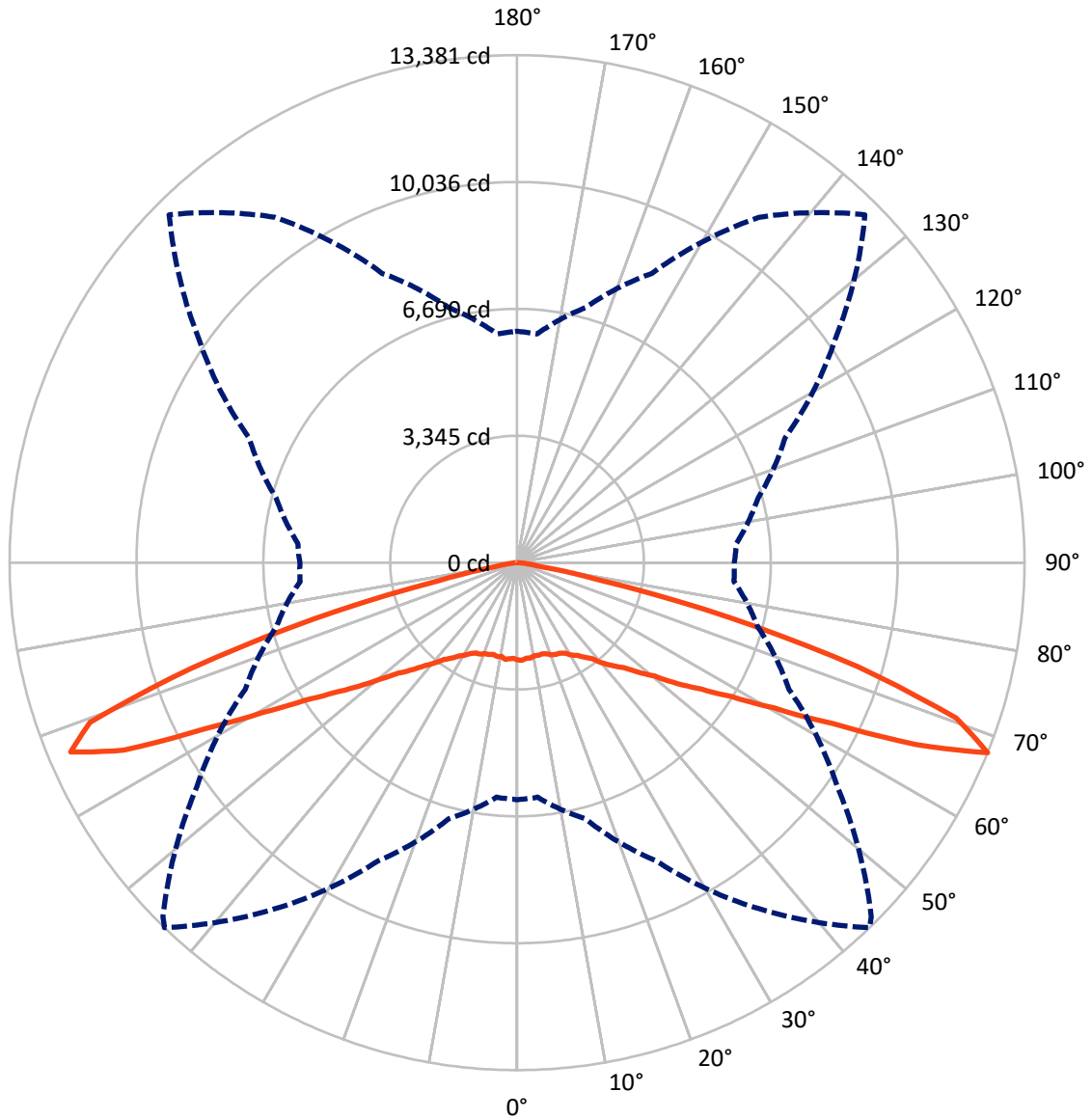
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	11733.0	0.0	11733.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	11793.3	0.0	11793.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	23526.3	0.0	23526.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.0
10°-20°	710.5	3.0
20°-30°	1208.2	5.1
30°-40°	1915.6	8.1
40°-50°	3123.6	13.3
50°-60°	5334.6	22.7
60°-70°	8113.9	34.5
70°-80°	2734.9	11.6
80°-90°	142.0	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°	23526.3	100.0
0°-180°	23526.3	100.0

Coefficient of Utilization



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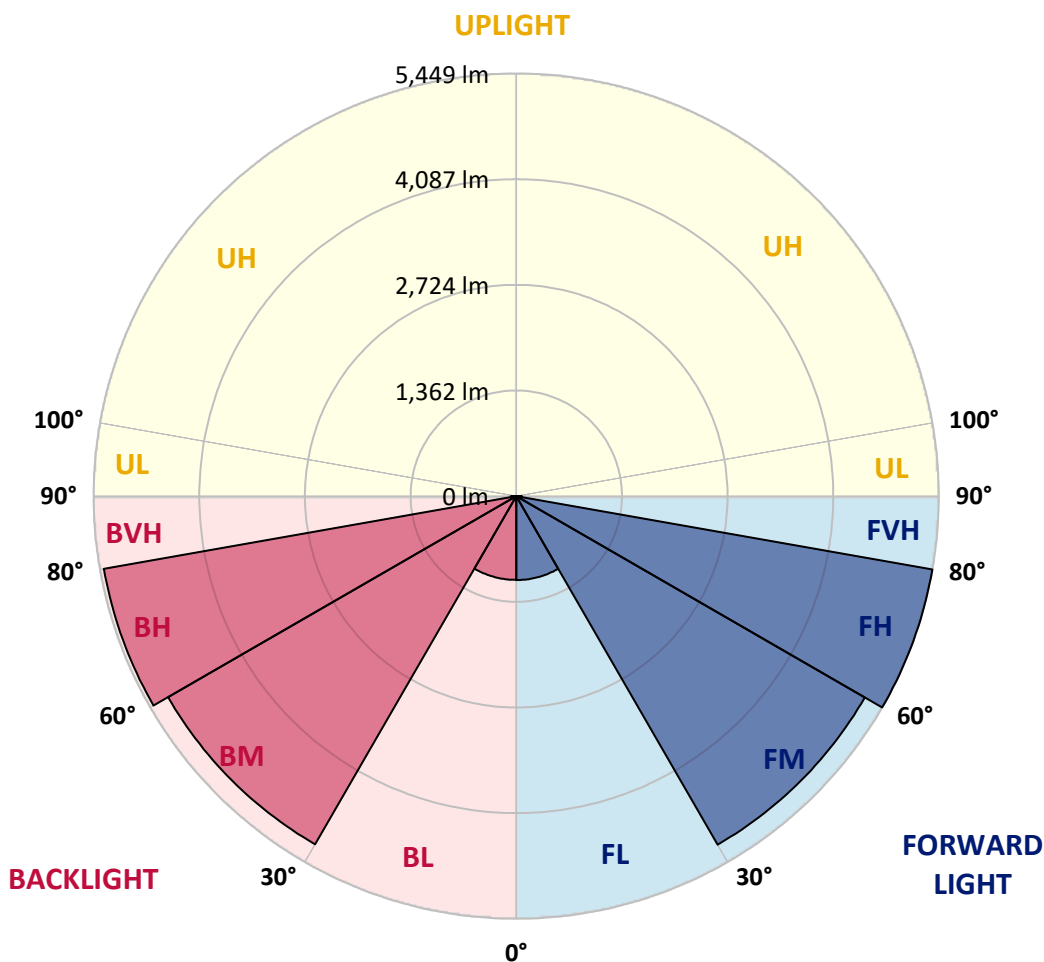
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.0	4.6			
FM (30°-60°)	5189.7	22.1			
FH (60°-80°)	5448.9	23.2			G3/7500
FVH (80°-90°)	72.6	0.3			G1/100
BL (0°-30°)	1079.8	4.6	B3/2500		
BM (30°-60°)	5184.1	22.0	B4/8500		
BH (60°-80°)	5399.8	23.0	B5		G3/7500
BVH (80°-90°)	69.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8
2.5°	2510.8	2540.3	2561.8	2559.1	2567.2	2575.2	2564.5	2580.6	2569.8	2588.6	2599.4
5°	2559.1	2551.0	2553.7	2537.6	2575.2	2532.2	2532.2	2553.7	2580.6	2548.4	2567.2
7.5°	2529.6	2524.2	2510.8	2534.9	2543.0	2543.0	2564.5	2524.2	2569.8	2580.6	2583.3
10°	2497.3	2467.8	2508.1	2532.2	2537.6	2494.7	2513.5	2524.2	2510.8	2524.2	2532.2
12.5°	2470.5	2486.6	2486.6	2486.6	2478.5	2508.1	2526.9	2524.2	2497.3	2521.5	2478.5
15°	2467.8	2459.7	2483.9	2505.4	2492.0	2497.3	2505.4	2529.6	2478.5	2489.3	2489.3
17.5°	2465.1	2475.9	2483.9	2481.2	2526.9	2526.9	2518.8	2502.7	2543.0	2521.5	2492.0
20°	2475.9	2467.8	2489.3	2497.3	2529.6	2594.0	2569.8	2556.4	2534.9	2508.1	2508.1
22.5°	2489.3	2483.9	2513.5	2548.4	2610.1	2626.2	2623.5	2607.4	2569.8	2537.6	2532.2
25°	2537.6	2489.3	2521.5	2588.6	2610.1	2642.3	2663.8	2642.3	2591.3	2599.4	2551.0
27.5°	2610.1	2602.1	2645.0	2690.7	2671.9	2701.4	2682.6	2698.7	2701.4	2661.1	2612.8
30°	2696.1	2671.9	2698.7	2787.4	2795.4	2827.6	2795.4	2752.4	2765.9	2731.0	2706.8
32.5°	2819.6	2811.5	2862.5	2921.6	2932.4	2916.2	2900.1	2924.3	2867.9	2841.1	2798.1
35°	2900.1	2935.0	2996.8	3042.5	3077.4	3061.3	3069.3	3045.1	3058.6	3002.2	2983.4
37.5°	3139.1	3125.7	3139.1	3217.0	3225.1	3217.0	3225.1	3251.9	3233.1	3184.8	3136.4
40°	3364.7	3343.2	3375.4	3464.1	3458.7	3485.5	3431.8	3461.4	3461.4	3370.1	3351.3
42.5°	3533.9	3606.4	3644.0	3716.5	3743.3	3719.2	3708.4	3713.8	3772.9	3665.4	3625.2
45°	3883.0	3880.3	3993.1	4033.3	3958.1	3952.8	3931.3	3995.7	4036.0	3974.3	3958.1
47.5°	4261.6	4280.4	4344.8	4360.9	4406.6	4323.4	4323.4	4331.4	4473.7	4328.7	4253.5
50°	4602.6	4626.8	4755.7	4881.9	4796.0	4707.3	4742.3	4785.2	4863.1	4726.1	4661.7
52.5°	5016.2	5147.7	5233.7	5300.8	5362.6	5300.8	5220.2	5268.6	5421.6	5239.0	5158.5
55°	5612.3	5717.0	5797.6	5921.1	5972.1	5888.9	5880.8	5875.5	5961.4	5768.0	5657.9
57.5°	6278.3	6235.3	6364.2	6554.8	6740.1	6659.6	6635.4	6640.8	6662.3	6388.4	6305.1
60°	7105.3	7153.7	7306.7	7473.2	7669.2	7782.0	7623.6	7532.3	7551.1	7177.8	7048.9
62.5°	7577.9	7685.4	8031.8	8603.7	8998.5	9350.3	9374.4	8781.0	8383.5	7658.5	7110.7
65°	7349.7	7333.6	7986.1	9044.1	10539.8	11562.9	11409.9	9970.6	8582.3	7430.3	6694.5
67.5°	6251.4	6208.4	6997.9	8676.2	11146.7	13380.9	13206.4	10306.2	7910.9	6573.6	5741.2
70°	4028.0	4017.2	4873.8	6613.9	9951.8	12285.3	12349.7	9361.0	6439.4	4814.8	3990.4
72.5°	1463.5	1552.1	2048.9	3555.4	6758.9	9398.6	9438.9	6930.8	3703.0	2226.1	1640.7
75°	539.7	555.9	647.2	1154.7	3080.1	5770.7	5921.1	3362.0	1315.8	725.0	590.8
77.5°	311.5	314.2	346.4	429.6	913.0	2253.0	2344.3	1020.4	510.2	386.7	357.1
80°	212.1	209.5	244.4	279.3	365.2	639.1	679.4	427.0	322.2	268.5	225.6
82.5°	123.5	131.6	179.9	198.7	222.9	282.0	287.3	265.8	241.7	198.7	147.7
85°	75.2	61.8	99.4	110.1	128.9	126.2	126.2	145.0	155.7	139.6	83.2
87.5°	18.8	18.8	24.2	26.9	34.9	26.9	29.5	56.4	75.2	69.8	43.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8	2569.8
2.5°	2575.2	2567.2	2572.5	2602.1	2583.3	2526.9	2540.3	2569.8	2545.7	2532.2	2529.6
5°	2564.5	2580.6	2561.8	2567.2	2586.0	2540.3	2548.4	2586.0	2569.8	2575.2	2545.7
7.5°	2567.2	2575.2	2559.1	2534.9	2534.9	2572.5	2551.0	2556.4	2532.2	2572.5	2518.8
10°	2551.0	2529.6	2510.8	2524.2	2518.8	2508.1	2500.0	2516.1	2492.0	2526.9	2489.3
12.5°	2502.7	2508.1	2502.7	2497.3	2508.1	2534.9	2492.0	2497.3	2459.7	2465.1	2483.9
15°	2483.9	2500.0	2494.7	2524.2	2537.6	2497.3	2529.6	2497.3	2467.8	2451.7	2481.2
17.5°	2492.0	2516.1	2508.1	2529.6	2505.4	2534.9	2540.3	2526.9	2492.0	2478.5	2492.0
20°	2500.0	2492.0	2502.7	2540.3	2575.2	2545.7	2545.7	2537.6	2505.4	2486.6	2486.6
22.5°	2518.8	2505.4	2521.5	2551.0	2561.8	2607.4	2567.2	2548.4	2494.7	2446.3	2492.0
25°	2556.4	2564.5	2575.2	2564.5	2623.5	2618.2	2612.8	2599.4	2516.1	2518.8	2510.8
27.5°	2628.9	2583.3	2596.7	2661.1	2669.2	2690.7	2663.8	2688.0	2599.4	2602.1	2548.4
30°	2717.5	2669.2	2712.2	2768.6	2765.9	2806.1	2792.7	2798.1	2736.3	2701.4	2628.9
32.5°	2814.2	2808.8	2835.7	2870.6	2884.0	2905.5	2902.8	2902.8	2865.2	2773.9	2787.4
35°	2921.6	2959.2	2991.4	3029.0	3034.4	3061.3	3023.7	3029.0	2991.4	2924.3	2945.8
37.5°	3133.8	3131.1	3166.0	3211.6	3217.0	3195.5	3225.1	3211.6	3160.6	3115.0	3080.1
40°	3380.8	3327.1	3359.3	3466.7	3474.8	3437.2	3434.5	3431.8	3394.2	3294.9	3273.4
42.5°	3595.6	3665.4	3660.1	3695.0	3670.8	3652.0	3719.2	3681.6	3652.0	3547.3	3528.5
45°	3872.2	3893.7	3963.5	4076.3	3960.8	3960.8	4006.5	3976.9	3960.8	3883.0	3810.5
47.5°	4215.9	4234.7	4374.4	4382.4	4307.2	4256.2	4398.5	4403.9	4336.8	4277.7	4189.1
50°	4618.7	4626.8	4753.0	4881.9	4798.7	4702.0	4847.0	4903.4	4753.0	4672.4	4562.3
52.5°	5061.8	5037.6	5142.4	5384.0	5303.5	5274.0	5429.7	5443.1	5239.0	5112.8	5142.4
55°	5572.0	5539.8	5824.4	5988.2	5937.2	5883.5	5953.3	5985.6	5821.8	5615.0	5687.5
57.5°	6232.6	6248.7	6391.0	6552.2	6635.4	6648.8	6681.1	6648.8	6482.3	6272.9	6205.8
60°	6893.2	6941.5	7218.1	7521.6	7548.4	7784.7	7741.8	7580.6	7344.3	7046.3	7059.7
62.5°	7137.6	7097.3	7543.0	8284.2	8915.2	9347.6	9156.9	8584.9	8037.1	7494.7	7535.0
65°	6646.1	6745.5	7352.4	8512.4	9881.9	11592.5	10577.4	8995.8	7889.4	7188.6	7110.7
67.5°	5727.8	5803.0	6573.6	7798.1	10228.3	12972.7	11114.5	8415.8	6957.6	6050.0	6098.3
70°	3990.4	4028.0	4782.5	6388.4	9275.1	12242.3	10027.0	6463.5	4804.0	3829.3	3883.0
72.5°	1605.8	1697.1	2193.9	3848.1	6847.5	9301.9	6750.9	3391.5	1992.5	1482.3	1345.3
75°	593.5	596.1	700.9	1323.9	3251.9	5845.9	3045.1	1090.2	636.4	521.0	496.8
77.5°	343.7	341.0	365.2	478.0	942.5	2282.5	864.7	427.0	346.4	311.5	298.1
80°	214.8	212.1	249.7	316.9	413.5	625.7	365.2	265.8	233.6	201.4	201.4
82.5°	137.0	139.6	196.0	233.6	252.4	276.6	212.1	188.0	174.5	115.5	112.8
85°	88.6	80.6	137.0	155.7	139.6	123.5	118.2	99.4	91.3	56.4	61.8
87.5°	40.3	43.0	69.8	77.9	51.0	29.5	29.5	21.5	21.5	13.4	13.4
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)