

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: P481163

Luminaire Tested: **IFLD-S-SA3E-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

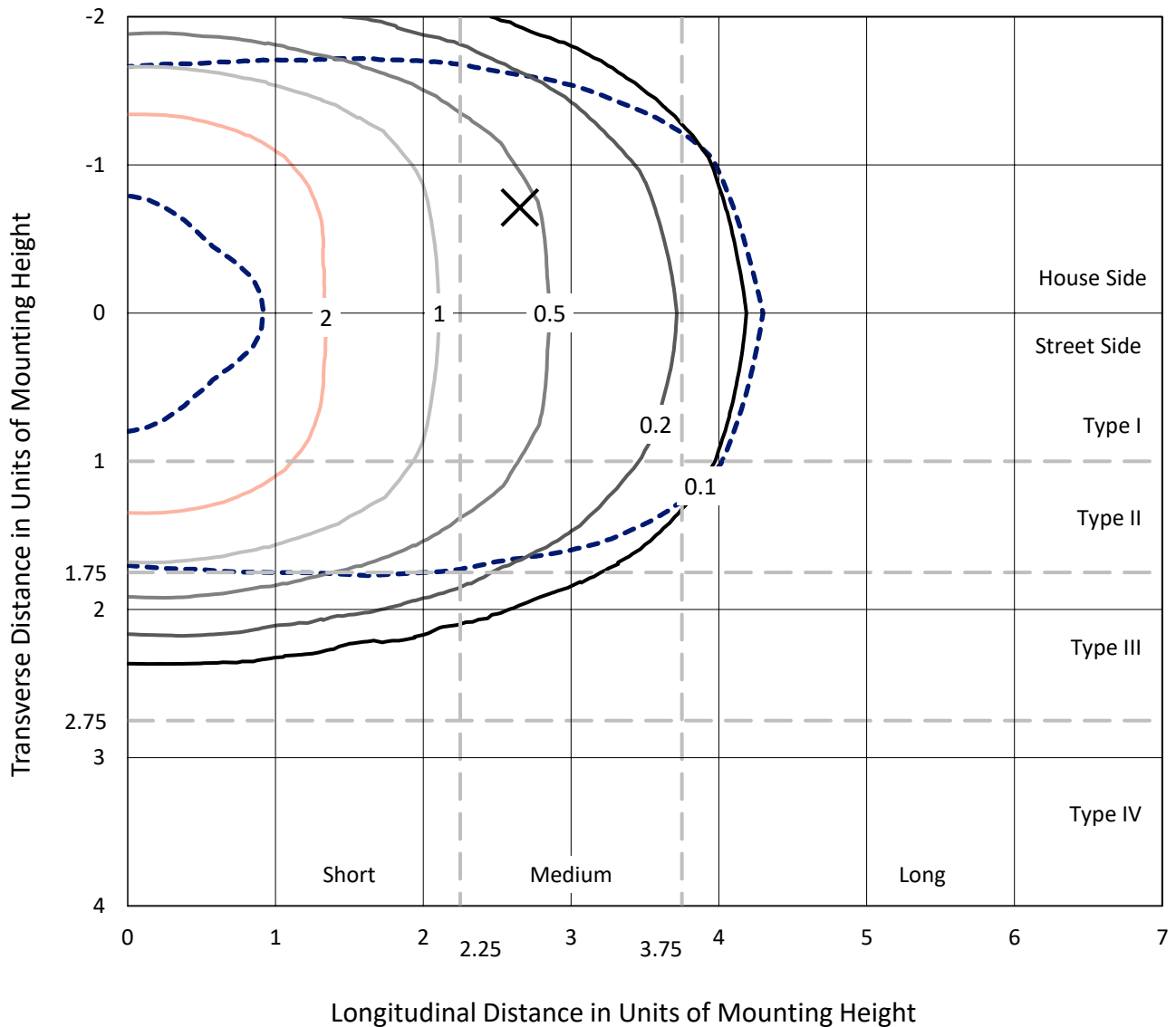
Lumens per Lamp: N/A
Luminaire Lumens: 23235.2 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1
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

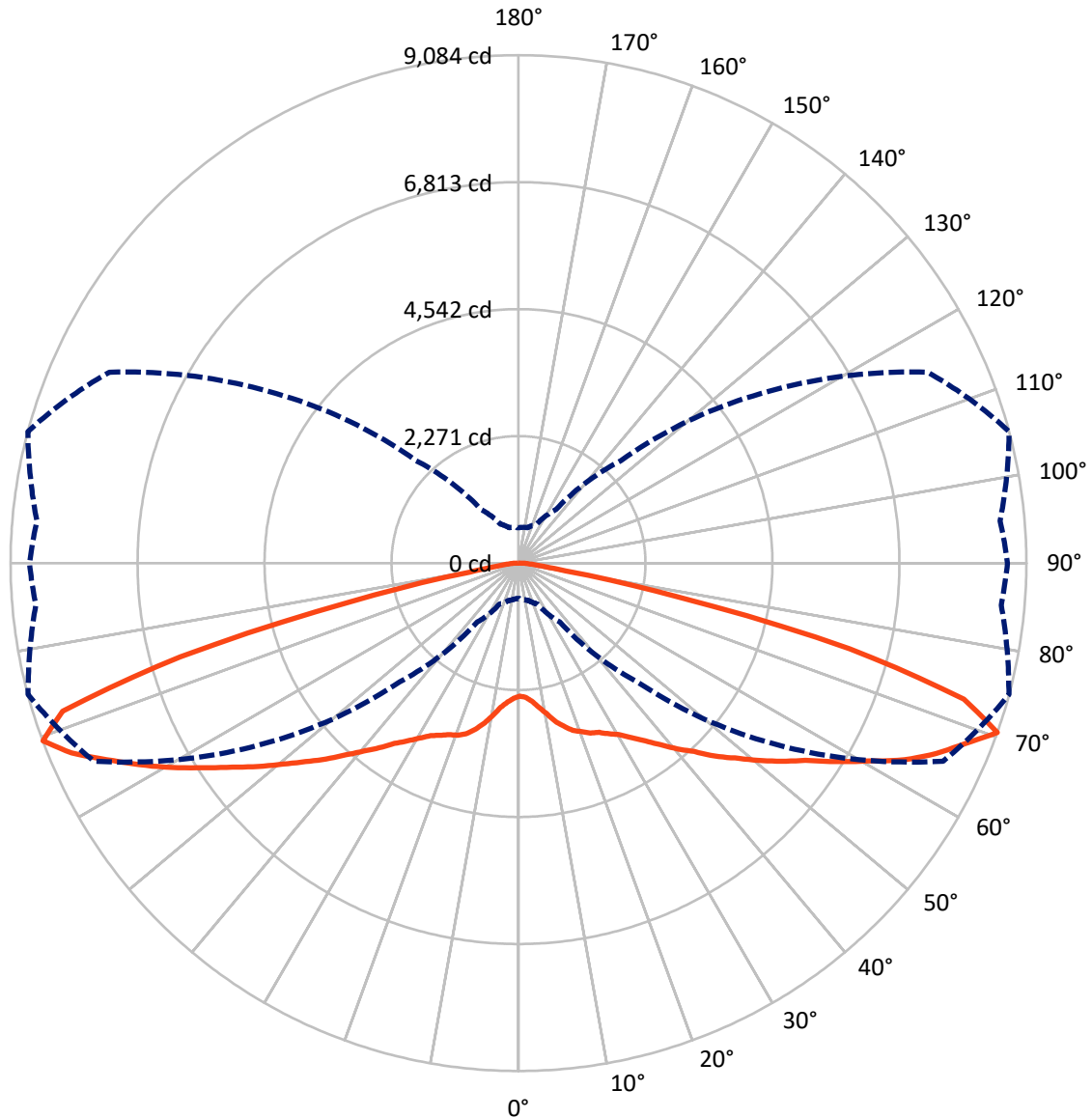
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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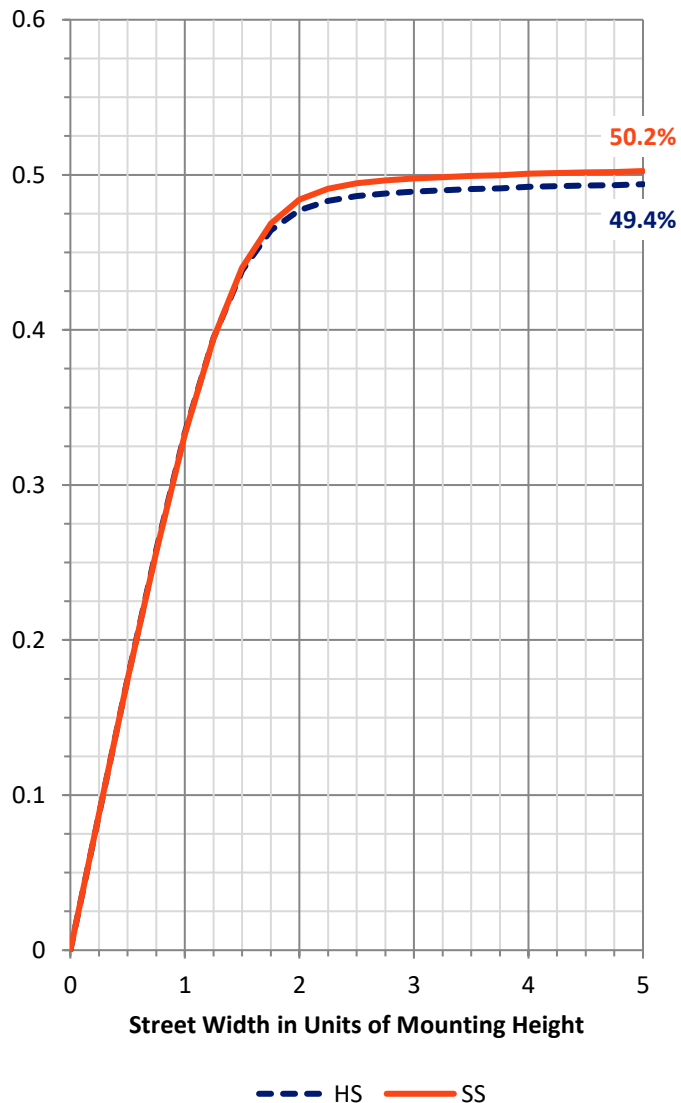
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11534.9	0.0	11534.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11700.2	0.0	11700.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	23235.2	0.0	23235.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.0
10°-20°	806.3	3.5
20°-30°	1561.3	6.7
30°-40°	2640.9	11.4
40°-50°	4213.0	18.1
50°-60°	5766.7	24.8
60°-70°	5435.5	23.4
70°-80°	2394.5	10.3
80°-90°	180.2	0.8
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°	23235.2	100.0
0°-180°	23235.2	100.0

Coefficient of Utilization

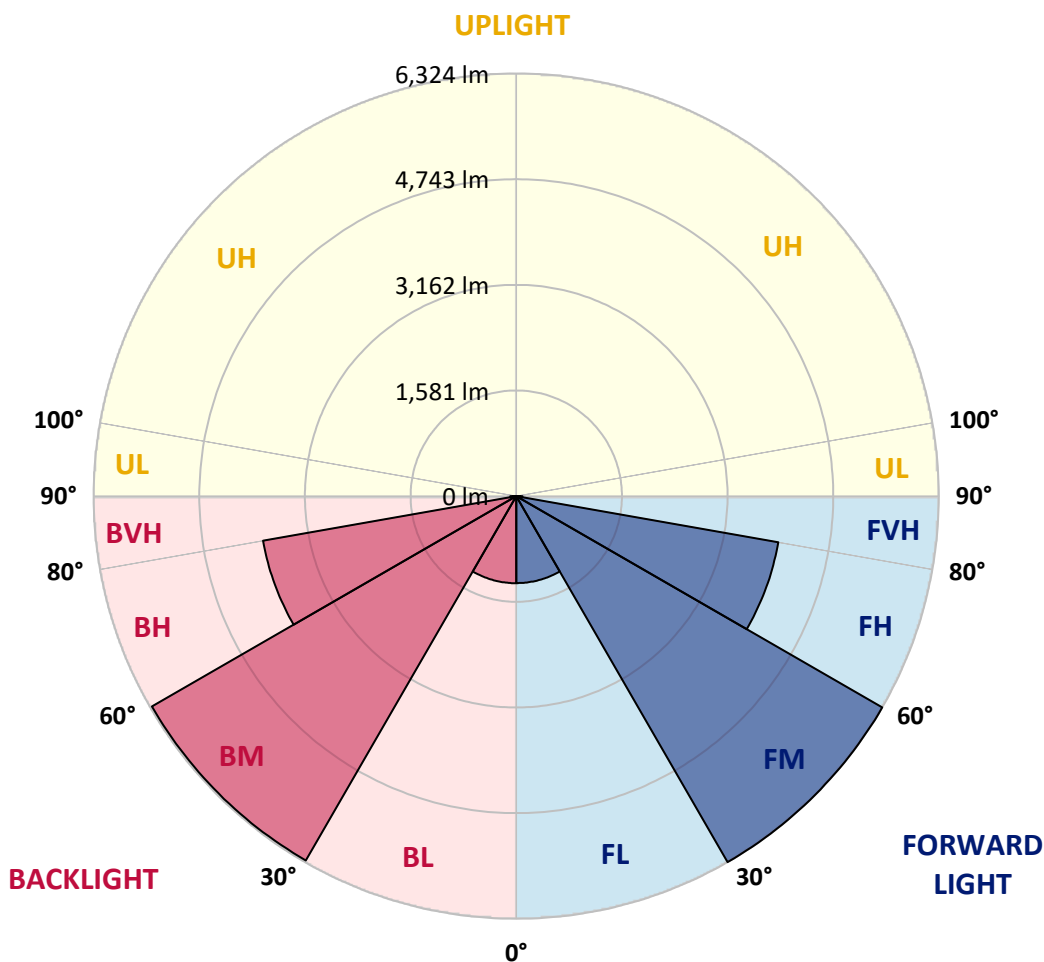


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.5	5.6			
FM (30°-60°)	6324.4	27.2			
FH (60°-80°)	3982.3	17.1			G2/5000
FVH (80°-90°)	92.0	0.4			G1/100
BL (0°-30°)	1303.0	5.6	B3/2500		
BM (30°-60°)	6296.1	27.1	B4/8500		
BH (60°-80°)	3847.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	88.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3
2.5°	2364.2	2364.2	2361.7	2374.2	2386.8	2391.8	2401.8	2404.3	2419.3	2406.8	2431.9
5°	2356.7	2354.2	2374.2	2404.3	2404.3	2436.9	2456.9	2484.4	2492.0	2507.0	2512.0
7.5°	2409.3	2404.3	2394.3	2426.8	2454.4	2504.5	2532.0	2579.6	2597.1	2617.2	2639.7
10°	2441.9	2441.9	2431.9	2489.5	2514.5	2582.1	2642.2	2689.8	2757.4	2780.0	2782.5
12.5°	2446.9	2454.4	2484.4	2559.6	2629.7	2717.4	2762.4	2852.6	2920.2	2962.8	2977.8
15°	2522.0	2507.0	2539.5	2642.2	2744.9	2822.6	2902.7	2967.8	3065.5	3120.6	3155.6
17.5°	2589.6	2574.6	2634.7	2757.4	2862.6	2982.8	3053.0	3123.1	3193.2	3243.3	3245.8
20°	2697.3	2709.8	2762.4	2895.2	3032.9	3138.1	3218.3	3230.8	3265.8	3338.5	3326.0
22.5°	2830.1	2820.0	2930.2	3075.5	3225.8	3313.4	3358.5	3326.0	3308.4	3386.1	3403.6
25°	2962.8	2992.9	3093.0	3228.3	3408.6	3526.3	3538.8	3448.7	3383.6	3411.1	3403.6
27.5°	3165.7	3170.7	3275.9	3436.1	3619.0	3721.7	3714.1	3586.4	3461.2	3463.7	3468.7
30°	3426.1	3401.1	3516.3	3661.6	3841.9	3934.5	3947.1	3764.2	3596.4	3546.3	3558.9
32.5°	3676.6	3706.6	3806.8	3972.1	4104.8	4157.4	4129.9	3967.1	3749.2	3681.6	3689.1
35°	3997.2	3992.1	4129.9	4270.1	4370.3	4380.3	4357.8	4119.9	3914.5	3826.8	3791.8
37.5°	4340.3	4385.3	4475.5	4590.7	4695.9	4700.9	4578.2	4387.9	4134.9	3989.6	4032.2
40°	4723.5	4773.5	4838.7	5006.5	5084.1	5004.0	4878.7	4620.8	4357.8	4230.1	4250.1
42.5°	5061.6	5084.1	5216.8	5414.7	5452.3	5417.2	5231.9	4918.8	4613.3	4473.0	4483.0
45°	5372.1	5402.2	5575.0	5752.8	5840.5	5780.3	5565.0	5266.9	4911.3	4791.1	4743.5
47.5°	5657.6	5717.7	5885.5	6068.4	6203.6	6208.6	5943.1	5582.5	5206.8	5049.0	5046.5
50°	5850.5	5938.1	6103.4	6311.3	6509.1	6586.8	6321.3	5933.1	5529.9	5362.1	5344.6
52.5°	5955.7	6045.8	6211.1	6534.2	6754.6	6874.8	6749.6	6261.2	5908.1	5732.8	5705.2
55°	5827.9	5888.0	6158.5	6611.8	6952.4	7150.3	7067.6	6714.5	6283.7	6141.0	6166.0
57.5°	5284.5	5409.7	5742.8	6308.8	6947.4	7433.3	7425.8	7142.8	6717.0	6581.8	6586.8
60°	4350.3	4455.5	4866.2	5657.6	6666.9	7548.5	7814.0	7558.5	7202.9	7045.1	7040.1
62.5°	3070.5	3203.2	3679.1	4543.1	5840.5	7388.2	8259.8	8082.0	7678.7	7563.5	7606.1
65°	1718.1	1798.2	2239.0	3020.4	4450.5	6506.6	8339.9	8625.4	8162.1	7986.8	7994.3
67.5°	919.1	949.2	1154.6	1585.3	2722.4	5016.5	7531.0	8938.5	8685.5	8382.5	8334.9
70°	631.1	641.1	693.7	811.5	1287.3	3000.4	5680.2	8380.0	9078.7	8665.5	8745.6
72.5°	533.5	528.4	541.0	553.5	673.7	1342.4	3333.5	6449.0	8570.3	8415.1	8385.0
75°	463.3	460.8	465.8	453.3	468.3	591.1	1475.1	4019.7	6273.7	7002.5	7115.2
77.5°	383.2	385.7	388.2	375.7	370.7	390.7	593.6	1765.7	3088.0	3408.6	3676.6
80°	290.5	295.5	315.6	303.0	283.0	285.5	350.6	591.1	886.6	803.9	829.0
82.5°	197.9	200.4	242.9	227.9	212.9	192.8	225.4	305.5	345.6	263.0	230.4
85°	140.3	137.7	157.8	145.3	135.2	97.7	135.2	172.8	207.9	130.2	117.7
87.5°	32.6	32.6	65.1	52.6	50.1	40.1	52.6	67.6	90.2	57.6	52.6
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°	145°	155°	165°	175°	180°
0°	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3	2379.3
2.5°	2424.3	2401.8	2401.8	2396.8	2376.8	2371.7	2354.2	2359.2	2346.7	2334.2
5°	2509.5	2479.4	2479.4	2436.9	2396.8	2391.8	2371.7	2371.7	2351.7	2356.7
7.5°	2627.2	2599.7	2554.6	2517.0	2461.9	2439.4	2401.8	2396.8	2391.8	2381.8
10°	2767.5	2732.4	2687.3	2609.7	2564.6	2522.0	2484.4	2431.9	2419.3	2421.8
12.5°	2957.8	2902.7	2805.0	2737.4	2679.8	2624.7	2569.6	2492.0	2474.4	2481.9
15°	3093.0	3022.9	2925.2	2900.2	2822.6	2754.9	2664.8	2577.1	2547.1	2539.5
17.5°	3203.2	3145.6	3088.0	3050.5	2987.8	2905.2	2780.0	2679.8	2612.2	2604.7
20°	3293.4	3218.3	3205.7	3228.3	3150.6	3095.5	2942.8	2820.0	2729.9	2692.3
22.5°	3348.5	3300.9	3336.0	3356.0	3351.0	3258.3	3100.5	2957.8	2845.1	2810.0
25°	3408.6	3353.5	3478.7	3546.3	3563.9	3411.1	3288.4	3100.5	2990.4	2967.8
27.5°	3438.7	3458.7	3603.9	3746.7	3734.2	3616.5	3451.2	3283.4	3195.7	3155.6
30°	3526.3	3558.9	3779.3	3939.5	3942.1	3826.8	3701.6	3511.3	3413.6	3396.1
32.5°	3684.1	3724.2	3959.6	4129.9	4159.9	4072.3	3947.1	3829.4	3729.2	3689.1
35°	3804.3	3907.0	4172.5	4327.7	4407.9	4355.3	4285.2	4162.4	4057.3	4022.2
37.5°	3977.1	4119.9	4375.3	4585.7	4675.9	4670.9	4618.3	4485.5	4397.9	4367.8
40°	4225.1	4367.8	4600.7	4878.7	5046.5	5039.0	5009.0	4906.3	4776.0	4761.0
42.5°	4488.0	4605.7	4908.8	5226.9	5467.3	5442.2	5362.1	5241.9	5151.7	5131.7
45°	4743.5	4926.3	5206.8	5615.0	5795.4	5858.0	5762.8	5557.4	5454.8	5442.2
47.5°	5064.1	5209.3	5559.9	5925.6	6193.6	6203.6	6040.8	5850.5	5662.6	5702.7
50°	5349.6	5542.4	5898.1	6298.8	6619.3	6504.1	6296.3	6058.3	5923.1	5870.5
52.5°	5655.1	5890.5	6303.8	6712.0	6889.8	6774.6	6436.5	6171.0	5965.7	5943.1
55°	6100.9	6223.6	6764.6	7077.7	7135.3	6892.3	6393.9	6018.3	5752.8	5687.7
57.5°	6554.2	6697.0	7170.3	7440.8	7380.7	6827.2	6118.4	5537.4	5189.3	5096.6
60°	7012.5	7187.9	7586.1	7834.0	7523.5	6378.9	5339.6	4590.7	4185.0	4102.3
62.5°	7523.5	7751.4	8107.0	8194.7	7100.2	5492.3	4237.6	3313.4	2902.7	2764.9
65°	7976.8	8209.7	8648.0	8119.5	6201.1	4097.3	2739.9	1893.4	1590.3	1480.1
67.5°	8349.9	8612.9	8828.3	7185.4	4540.6	2399.3	1427.6	996.8	884.1	844.0
70°	8645.5	9083.8	8077.0	5282.0	2594.6	1169.6	771.4	656.2	641.1	631.1
72.5°	8387.5	8329.9	6030.8	3048.0	1137.0	643.7	558.5	541.0	538.5	541.0
75°	6859.8	6118.4	3606.5	1324.9	571.0	465.8	463.3	455.8	468.3	468.3
77.5°	3328.5	2910.2	1507.7	568.5	375.7	365.7	378.2	378.2	378.2	378.2
80°	771.4	854.0	538.5	345.6	273.0	273.0	300.5	303.0	290.5	285.5
82.5°	263.0	350.6	295.5	217.9	180.3	202.9	227.9	232.9	192.8	195.3
85°	130.2	205.4	160.3	125.2	92.7	125.2	147.8	155.3	132.7	127.7
87.5°	60.1	90.2	60.1	42.6	32.6	45.1	42.6	35.1	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)