

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: P479474

Luminaire Tested: **IFLD-L-SA8B-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

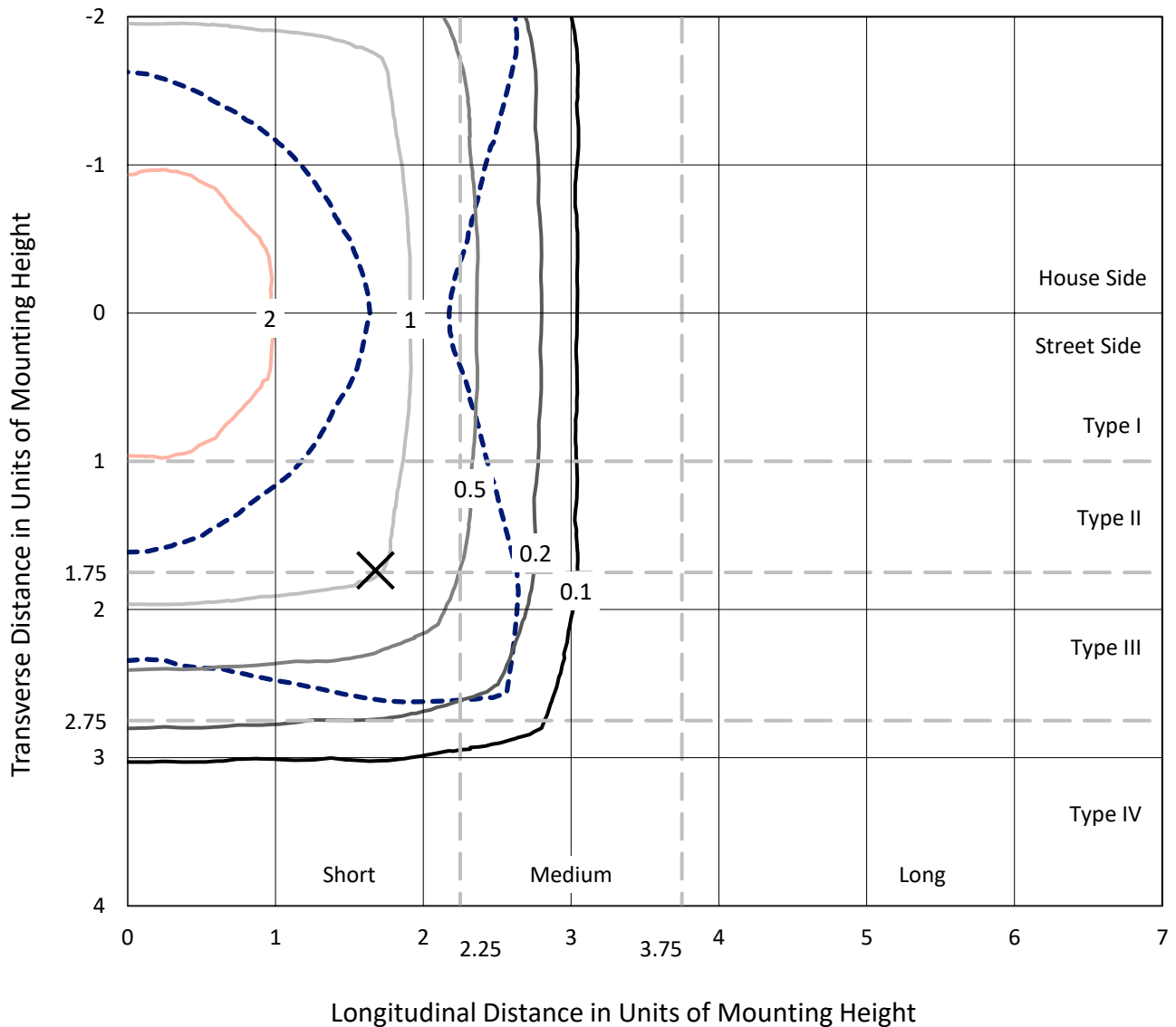
Lumens per Lamp: N/A
Luminaire Lumens: 30199.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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

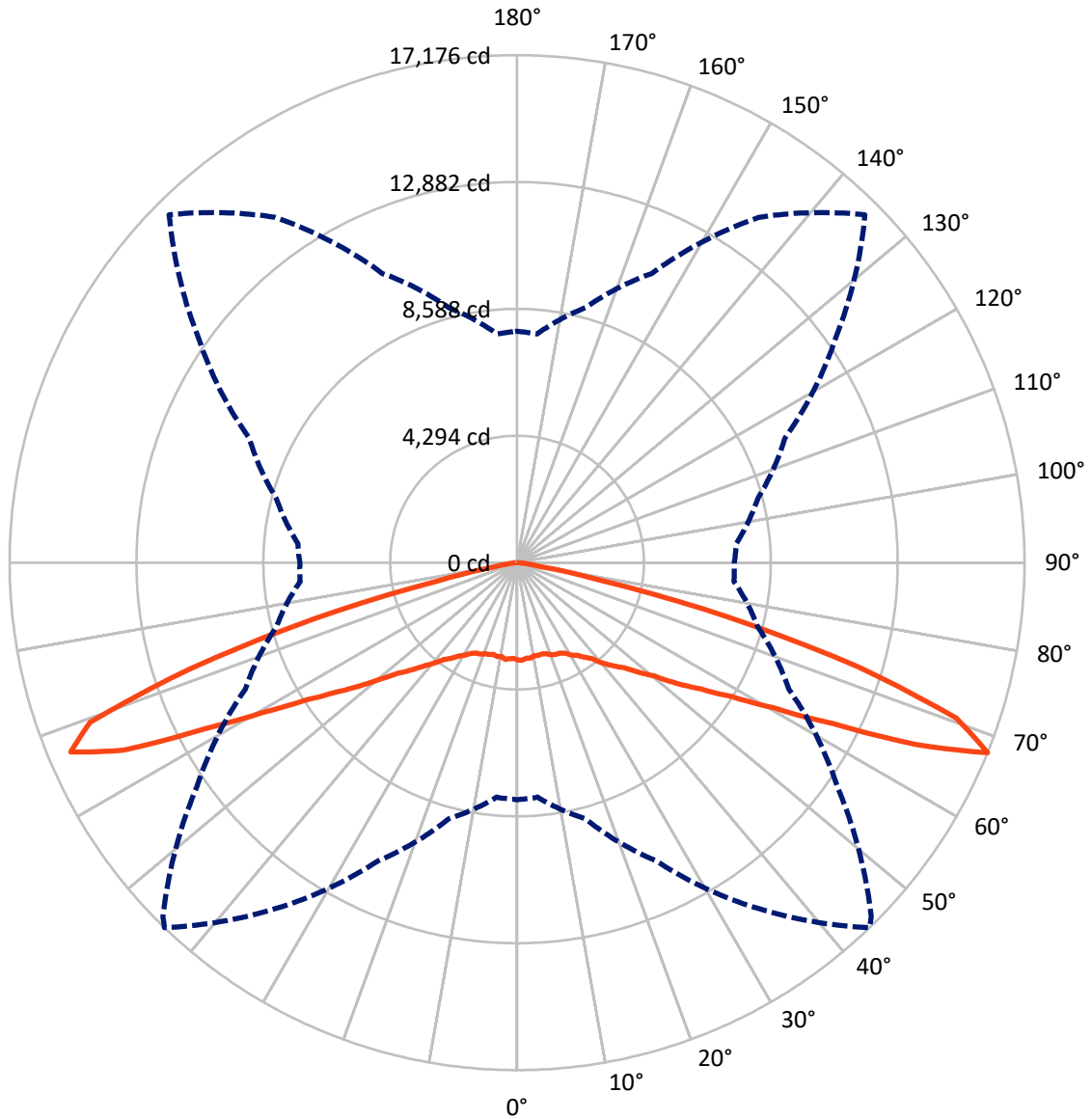
× Max cd
 - - - 1/2 Max cd



Based on 30 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	15060.9	0.0	15060.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	15138.2	0.0	15138.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	30199.1	0.0	30199.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.0
10°-20°	912.0	3.0
20°-30°	1550.8	5.1
30°-40°	2458.9	8.1
40°-50°	4009.5	13.3
50°-60°	6847.7	22.7
60°-70°	10415.2	34.5
70°-80°	3510.6	11.6
80°-90°	182.3	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°	30199.1	100.0
0°-180°	30199.1	100.0

Coefficient of Utilization



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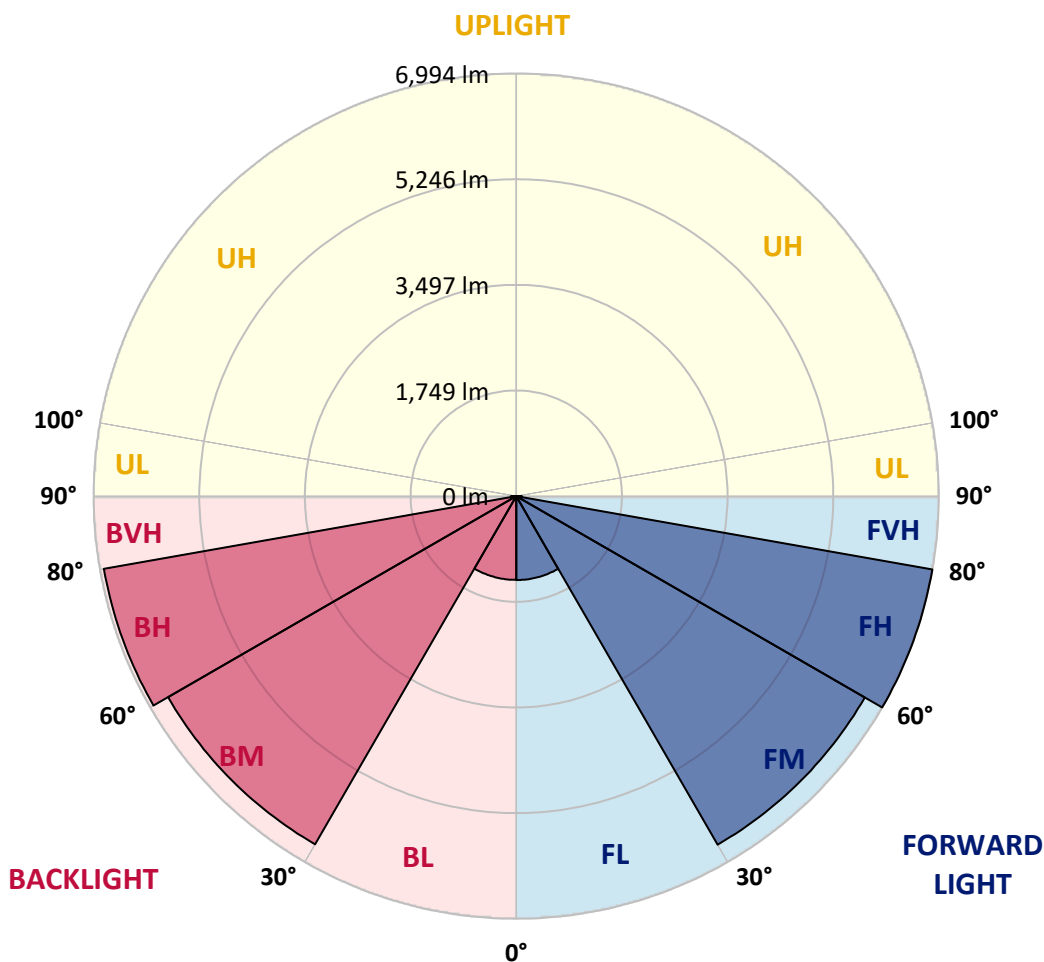
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.9	4.6			
FM (30°-60°)	6661.6	22.1			
FH (60°-80°)	6994.4	23.2			G3/7500
FVH (80°-90°)	93.2	0.3			G1/100
BL (0°-30°)	1386.1	4.6	B3/2500		
BM (30°-60°)	6654.4	22.0	B4/8500		
BH (60°-80°)	6931.4	23.0	B5		G3/7500
BVH (80°-90°)	89.0	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°	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7
2.5°	3222.9	3260.8	3288.4	3284.9	3295.3	3305.6	3291.8	3312.5	3298.7	3322.9	3336.6
5°	3284.9	3274.6	3278.0	3257.4	3305.6	3250.5	3250.5	3278.0	3312.5	3271.2	3295.3
7.5°	3247.0	3240.1	3222.9	3253.9	3264.3	3264.3	3291.8	3240.1	3298.7	3312.5	3316.0
10°	3205.7	3167.7	3219.4	3250.5	3257.4	3202.2	3226.3	3240.1	3222.9	3240.1	3250.5
12.5°	3171.2	3191.9	3191.9	3191.9	3181.5	3219.4	3243.6	3240.1	3205.7	3236.7	3181.5
15°	3167.7	3157.4	3188.4	3216.0	3198.8	3205.7	3216.0	3247.0	3181.5	3195.3	3195.3
17.5°	3164.3	3178.1	3188.4	3185.0	3243.6	3243.6	3233.2	3212.6	3264.3	3236.7	3198.8
20°	3178.1	3167.7	3195.3	3205.7	3247.0	3329.8	3298.7	3281.5	3253.9	3219.4	3219.4
22.5°	3195.3	3188.4	3226.3	3271.2	3350.4	3371.1	3367.7	3347.0	3298.7	3257.4	3250.5
25°	3257.4	3195.3	3236.7	3322.9	3350.4	3391.8	3419.4	3391.8	3326.3	3336.6	3274.6
27.5°	3350.4	3340.1	3395.2	3453.8	3429.7	3467.6	3443.5	3464.2	3467.6	3415.9	3353.9
30°	3460.7	3429.7	3464.2	3577.9	3588.3	3629.6	3588.3	3533.1	3550.4	3505.5	3474.5
32.5°	3619.3	3609.0	3674.4	3750.3	3764.1	3743.4	3722.7	3753.7	3681.3	3646.9	3591.7
35°	3722.7	3767.5	3846.8	3905.4	3950.2	3929.5	3939.9	3908.8	3926.1	3853.7	3829.6
37.5°	4029.5	4012.2	4029.5	4129.4	4139.8	4129.4	4139.8	4174.3	4150.1	4088.1	4026.0
40°	4319.0	4291.5	4332.8	4446.6	4439.7	4474.1	4405.2	4443.1	4443.1	4325.9	4301.8
42.5°	4536.2	4629.3	4677.5	4770.6	4805.0	4774.0	4760.2	4767.1	4843.0	4705.1	4653.4
45°	4984.3	4980.8	5125.6	5177.3	5080.8	5073.9	5046.3	5129.1	5180.8	5101.5	5080.8
47.5°	5470.3	5494.4	5577.2	5597.8	5656.4	5549.6	5549.6	5559.9	5742.6	5556.5	5460.0
50°	5908.1	5939.1	6104.5	6266.6	6156.2	6042.5	6087.3	6142.5	6242.4	6066.6	5983.9
52.5°	6438.9	6607.8	6718.1	6804.3	6883.6	6804.3	6700.9	6762.9	6959.4	6725.0	6621.6
55°	7204.1	7338.6	7442.0	7600.5	7666.0	7559.2	7548.8	7541.9	7652.2	7404.0	7262.7
57.5°	8059.0	8003.8	8169.3	8414.0	8651.8	8548.4	8517.4	8524.3	8551.9	8200.3	8093.4
60°	9120.6	9182.7	9379.1	9592.9	9844.5	9989.3	9785.9	9668.7	9692.8	9213.7	9048.2
62.5°	9727.3	9865.2	10309.8	11044.0	11550.7	12002.3	12033.3	11271.5	10761.4	9830.7	9127.5
65°	9434.3	9413.6	10251.2	11609.3	13529.3	14842.6	14646.1	12798.5	11016.4	9537.7	8593.2
67.5°	8024.5	7969.3	8982.7	11137.1	14308.3	17176.1	16952.1	13229.4	10154.7	8438.1	7369.6
70°	5170.4	5156.6	6256.2	8489.8	12774.4	15769.8	15852.5	12016.1	8265.8	6180.4	5122.2
72.5°	1878.6	1992.3	2630.0	4563.8	8676.0	12064.3	12116.0	8896.6	4753.3	2857.5	2106.1
75°	692.8	713.5	830.7	1482.2	3953.6	7407.5	7600.5	4315.6	1689.0	930.7	758.3
77.5°	399.8	403.3	444.7	551.5	1172.0	2892.0	3009.2	1309.8	654.9	496.4	458.4
80°	272.3	268.9	313.7	358.5	468.8	820.4	872.1	548.1	413.6	344.7	289.5
82.5°	158.6	168.9	230.9	255.1	286.1	361.9	368.8	341.2	310.2	255.1	189.6
85°	96.5	79.3	127.5	141.3	165.5	162.0	162.0	186.1	199.9	179.2	106.9
87.5°	24.1	24.1	31.0	34.5	44.8	34.5	37.9	72.4	96.5	89.6	55.2
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°	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7
2.5°	3305.6	3295.3	3302.2	3340.1	3316.0	3243.6	3260.8	3298.7	3267.7	3250.5	3247.0
5°	3291.8	3312.5	3288.4	3295.3	3319.4	3260.8	3271.2	3319.4	3298.7	3305.6	3267.7
7.5°	3295.3	3305.6	3284.9	3253.9	3253.9	3302.2	3274.6	3281.5	3250.5	3302.2	3233.2
10°	3274.6	3247.0	3222.9	3240.1	3233.2	3219.4	3209.1	3229.8	3198.8	3243.6	3195.3
12.5°	3212.6	3219.4	3212.6	3205.7	3219.4	3253.9	3198.8	3205.7	3157.4	3164.3	3188.4
15°	3188.4	3209.1	3202.2	3240.1	3257.4	3205.7	3247.0	3205.7	3167.7	3147.1	3185.0
17.5°	3198.8	3229.8	3219.4	3247.0	3216.0	3253.9	3260.8	3243.6	3198.8	3181.5	3198.8
20°	3209.1	3198.8	3212.6	3260.8	3305.6	3267.7	3267.7	3257.4	3216.0	3191.9	3191.9
22.5°	3233.2	3216.0	3236.7	3274.6	3288.4	3347.0	3295.3	3271.2	3202.2	3140.2	3198.8
25°	3281.5	3291.8	3305.6	3291.8	3367.7	3360.8	3353.9	3336.6	3229.8	3233.2	3222.9
27.5°	3374.6	3316.0	3333.2	3415.9	3426.3	3453.8	3419.4	3450.4	3336.6	3340.1	3271.2
30°	3488.3	3426.3	3481.4	3553.8	3550.4	3602.1	3584.8	3591.7	3512.4	3467.6	3374.6
32.5°	3612.4	3605.5	3640.0	3684.8	3702.0	3729.6	3726.2	3726.2	3677.9	3560.7	3577.9
35°	3750.3	3798.5	3839.9	3888.2	3895.1	3929.5	3881.3	3888.2	3839.9	3753.7	3781.3
37.5°	4022.6	4019.1	4064.0	4122.6	4129.4	4101.9	4139.8	4122.6	4057.1	3998.5	3953.6
40°	4339.7	4270.8	4312.1	4450.0	4460.4	4412.1	4408.6	4405.2	4356.9	4229.4	4201.8
42.5°	4615.5	4705.1	4698.2	4743.0	4712.0	4687.8	4774.0	4725.8	4687.8	4553.4	4529.3
45°	4970.5	4998.1	5087.7	5232.5	5084.2	5084.2	5142.8	5104.9	5084.2	4984.3	4891.2
47.5°	5411.7	5435.8	5615.1	5625.4	5528.9	5463.4	5646.1	5653.0	5566.8	5491.0	5377.2
50°	5928.8	5939.1	6101.1	6266.6	6159.7	6035.6	6221.7	6294.1	6101.1	5997.7	5856.4
52.5°	6497.5	6466.5	6600.9	6911.1	6807.7	6769.8	6969.7	6987.0	6725.0	6563.0	6600.9
55°	7152.4	7111.1	7476.4	7686.7	7621.2	7552.3	7641.9	7683.2	7473.0	7207.6	7300.6
57.5°	8000.4	8021.0	8203.7	8410.6	8517.4	8534.6	8576.0	8534.6	8320.9	8052.1	7965.9
60°	8848.3	8910.4	9265.4	9654.9	9689.4	9992.7	9937.6	9730.7	9427.4	9044.8	9062.0
62.5°	9162.0	9110.3	9682.5	10633.8	11443.9	11998.8	11754.1	11019.9	10316.7	9620.4	9672.1
65°	8531.2	8658.7	9437.7	10926.8	12684.8	14880.5	13577.5	11547.3	10127.1	9227.5	9127.5
67.5°	7352.3	7448.9	8438.1	10009.9	13129.4	16652.2	14266.9	10802.7	8931.0	7766.0	7828.0
70°	5122.2	5170.4	6139.0	8200.3	11905.8	15714.6	12870.9	8296.8	6166.6	4915.3	4984.3
72.5°	2061.3	2178.5	2816.2	4939.5	8789.7	11940.2	8665.6	4353.5	2557.6	1902.7	1726.9
75°	761.8	765.2	899.7	1699.3	4174.3	7504.0	3908.8	1399.5	816.9	668.7	637.7
77.5°	441.2	437.8	468.8	613.6	1209.9	2929.9	1109.9	548.1	444.7	399.8	382.6
80°	275.8	272.3	320.6	406.7	530.8	803.1	468.8	341.2	299.9	258.5	258.5
82.5°	175.8	179.2	251.6	299.9	324.0	355.0	272.3	241.3	224.1	148.2	144.8
85°	113.7	103.4	175.8	199.9	179.2	158.6	151.7	127.5	117.2	72.4	79.3
87.5°	51.7	55.2	89.6	100.0	65.5	37.9	37.9	27.6	27.6	17.2	17.2
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)