

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: P479201

Luminaire Tested: **IFLD-L-SA8B-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479201
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

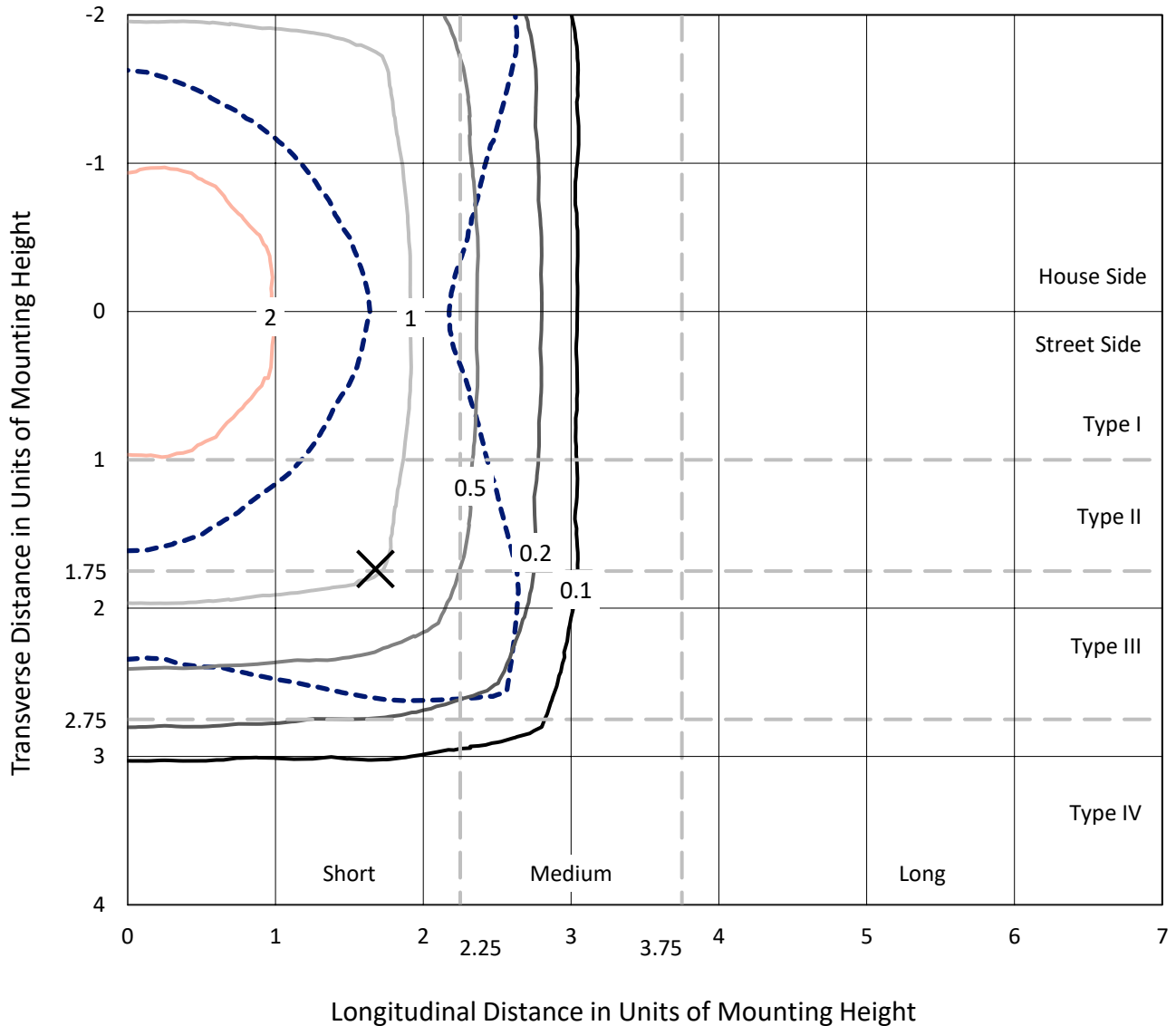
Lumens per Lamp: N/A
Luminaire Lumens: 30260.7 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

REPORT NUMBER: P479201
 CATALOG NUMBER: IFLD-L-SA8B-722-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

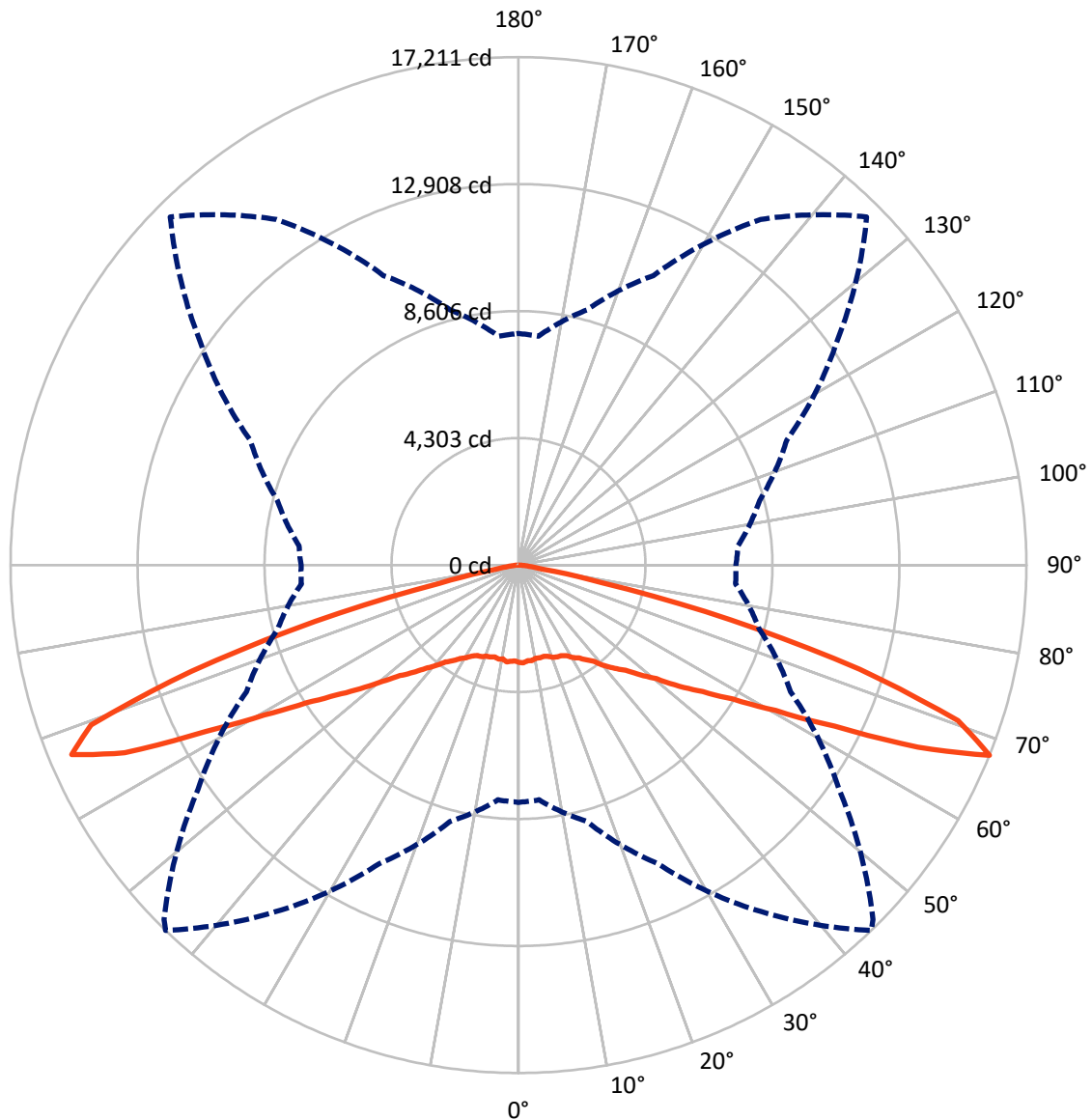
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

REPORT NUMBER: P479201
CATALOG NUMBER: IFLD-L-SA8B-722-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479201

CATALOG NUMBER: IFLD-L-SA8B-722-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15091.6	0.0	15091.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	15169.1	0.0	15169.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	30260.7	0.0	30260.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.0
10°-20°	913.8	3.0
20°-30°	1554.0	5.1
30°-40°	2463.9	8.1
40°-50°	4017.7	13.3
50°-60°	6861.6	22.7
60°-70°	10436.5	34.5
70°-80°	3517.7	11.6
80°-90°	182.6	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°	30260.7	100.0
0°-180°	30260.7	100.0

Coefficient of Utilization



REPORT NUMBER: P479201

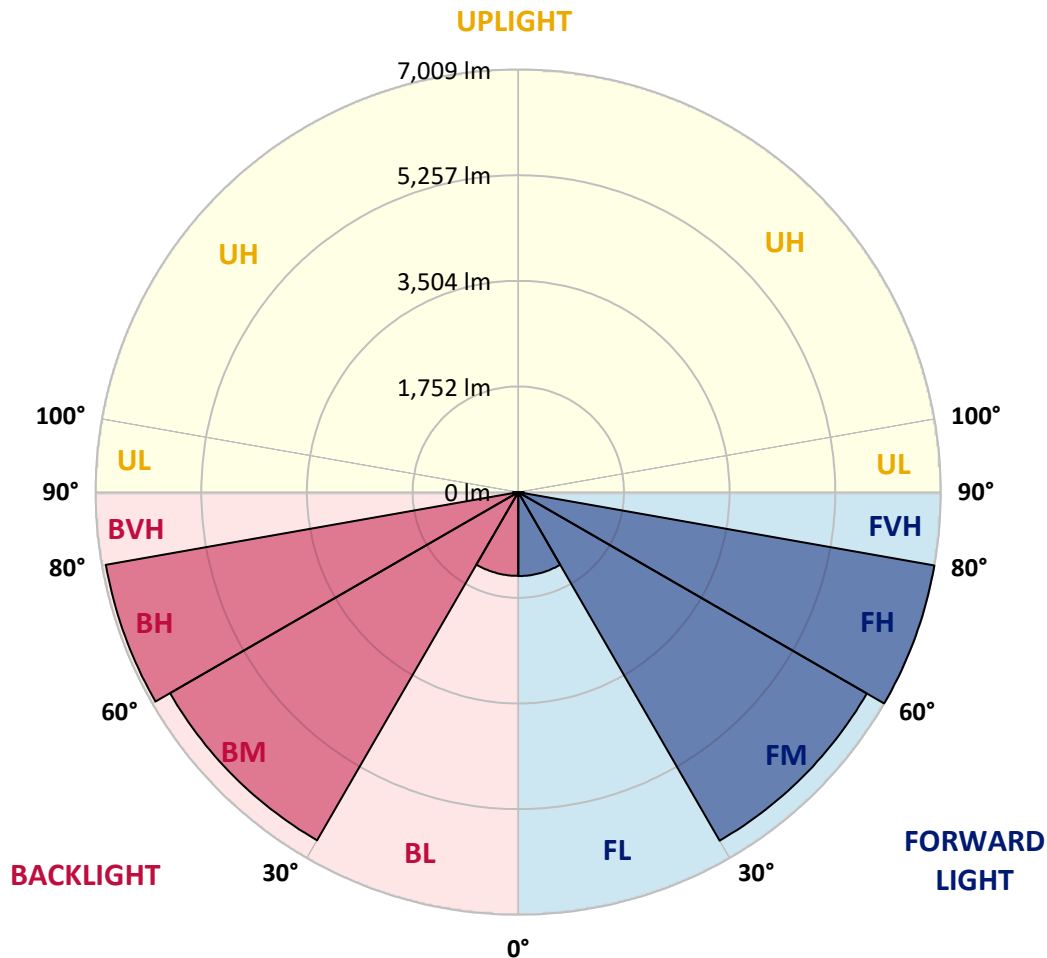
CATALOG NUMBER: IFLD-L-SA8B-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.7	4.6			
FM (30°-60°)	6675.2	22.1			
FH (60°-80°)	7008.7	23.2			G3/7500
FVH (80°-90°)	93.4	0.3			G1/100
BL (0°-30°)	1388.9	4.6	B3/2500		
BM (30°-60°)	6668.0	22.0	B4/8500		
BH (60°-80°)	6945.5	23.0	B5		G3/7500
BVH (80°-90°)	89.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P479201
 CATALOG NUMBER: IFLD-L-SA8B-722-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5
2.5°	3229.5	3267.5	3295.1	3291.6	3302.0	3312.4	3298.6	3319.3	3305.5	3329.6	3343.5
5°	3291.6	3281.3	3284.7	3264.0	3312.4	3257.1	3257.1	3284.7	3319.3	3277.8	3302.0
7.5°	3253.7	3246.7	3229.5	3260.6	3270.9	3270.9	3298.6	3246.7	3305.5	3319.3	3322.7
10°	3212.2	3174.2	3226.0	3257.1	3264.0	3208.7	3232.9	3246.7	3229.5	3246.7	3257.1
12.5°	3177.7	3198.4	3198.4	3198.4	3188.0	3226.0	3250.2	3246.7	3212.2	3243.3	3188.0
15°	3174.2	3163.8	3194.9	3222.6	3205.3	3212.2	3222.6	3253.7	3188.0	3201.8	3201.8
17.5°	3170.8	3184.6	3194.9	3191.5	3250.2	3250.2	3239.8	3219.1	3270.9	3243.3	3205.3
20°	3184.6	3174.2	3201.8	3212.2	3253.7	3336.5	3305.5	3288.2	3260.6	3226.0	3226.0
22.5°	3201.8	3194.9	3232.9	3277.8	3357.3	3378.0	3374.5	3353.8	3305.5	3264.0	3257.1
25°	3264.0	3201.8	3243.3	3329.6	3357.3	3398.7	3426.4	3398.7	3333.1	3343.5	3281.3
27.5°	3357.3	3346.9	3402.2	3460.9	3436.7	3474.7	3450.5	3471.3	3474.7	3422.9	3360.7
30°	3467.8	3436.7	3471.3	3585.2	3595.6	3637.0	3595.6	3540.3	3557.6	3512.7	3481.6
32.5°	3626.7	3616.3	3681.9	3757.9	3771.7	3751.0	3730.3	3761.4	3688.9	3654.3	3599.0
35°	3730.3	3775.2	3854.6	3913.4	3958.3	3937.5	3947.9	3916.8	3934.1	3861.6	3837.4
37.5°	4037.7	4020.4	4037.7	4137.9	4148.2	4137.9	4148.2	4182.8	4158.6	4096.4	4034.3
40°	4327.8	4300.2	4341.7	4455.6	4448.7	4483.3	4414.2	4452.2	4452.2	4334.7	4310.6
42.5°	4545.4	4638.7	4687.1	4780.3	4814.9	4783.8	4769.9	4776.9	4852.8	4714.7	4662.9
45°	4994.5	4991.0	5136.1	5187.9	5091.2	5084.3	5056.6	5139.5	5191.3	5111.9	5091.2
47.5°	5481.5	5505.6	5588.5	5609.3	5668.0	5560.9	5560.9	5571.3	5754.3	5567.8	5471.1
50°	5920.1	5951.2	6117.0	6279.3	6168.8	6054.8	6099.7	6155.0	6255.2	6079.0	5996.1
52.5°	6452.0	6621.3	6731.8	6818.2	6897.6	6818.2	6714.5	6776.7	6973.6	6738.7	6635.1
55°	7218.8	7353.5	7457.1	7616.0	7681.7	7574.6	7564.2	7557.3	7667.8	7419.2	7277.5
57.5°	8075.4	8020.1	8185.9	8431.2	8669.5	8565.9	8534.8	8541.7	8569.3	8217.0	8109.9
60°	9139.2	9201.4	9398.3	9612.4	9864.6	10009.6	9805.9	9688.4	9712.6	9232.5	9066.7
62.5°	9747.1	9885.3	10330.9	11066.6	11574.3	12026.8	12057.9	11294.5	10783.3	9850.8	9146.1
65°	9453.5	9432.8	10272.1	11633.0	13556.9	14872.8	14676.0	12824.6	11038.9	9557.2	8610.8
67.5°	8040.9	7985.6	9001.1	11159.8	14337.5	17211.2	16986.7	13256.4	10175.4	8455.3	7384.6
70°	5181.0	5167.2	6269.0	8507.2	12800.5	15802.0	15884.9	12040.6	8282.6	6193.0	5132.6
72.5°	1882.4	1996.4	2635.4	4573.1	8693.7	12088.9	12140.7	8914.7	4763.0	2863.4	2110.4
75°	694.3	715.0	832.4	1485.2	3961.7	7422.6	7616.0	4324.4	1692.5	932.6	759.9
77.5°	400.7	404.1	445.6	552.6	1174.4	2897.9	3015.3	1312.5	656.3	497.4	459.4
80°	272.9	269.4	314.3	359.2	469.7	822.0	873.9	549.2	414.5	345.4	290.1
82.5°	158.9	169.2	231.4	255.6	286.7	362.7	369.6	341.9	310.9	255.6	190.0
85°	96.7	79.4	127.8	141.6	165.8	162.3	162.3	186.5	200.3	179.6	107.1
87.5°	24.2	24.2	31.1	34.5	44.9	34.5	38.0	72.5	96.7	89.8	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479201
 CATALOG NUMBER: IFLD-L-SA8B-722-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5	3305.5
2.5°	3312.4	3302.0	3308.9	3346.9	3322.7	3250.2	3267.5	3305.5	3274.4	3257.1	3253.7
5°	3298.6	3319.3	3295.1	3302.0	3326.2	3267.5	3277.8	3326.2	3305.5	3312.4	3274.4
7.5°	3302.0	3312.4	3291.6	3260.6	3260.6	3308.9	3281.3	3288.2	3257.1	3308.9	3239.8
10°	3281.3	3253.7	3229.5	3246.7	3239.8	3226.0	3215.7	3236.4	3205.3	3250.2	3201.8
12.5°	3219.1	3226.0	3219.1	3212.2	3226.0	3260.6	3205.3	3212.2	3163.8	3170.8	3194.9
15°	3194.9	3215.7	3208.7	3246.7	3264.0	3212.2	3253.7	3212.2	3174.2	3153.5	3191.5
17.5°	3205.3	3236.4	3226.0	3253.7	3222.6	3260.6	3267.5	3250.2	3205.3	3188.0	3205.3
20°	3215.7	3205.3	3219.1	3267.5	3312.4	3274.4	3274.4	3264.0	3222.6	3198.4	3198.4
22.5°	3239.8	3222.6	3243.3	3281.3	3295.1	3353.8	3302.0	3277.8	3208.7	3146.6	3205.3
25°	3288.2	3298.6	3312.4	3298.6	3374.5	3367.6	3360.7	3343.5	3236.4	3239.8	3229.5
27.5°	3381.4	3322.7	3340.0	3422.9	3433.3	3460.9	3426.4	3457.4	3343.5	3346.9	3277.8
30°	3495.4	3433.3	3488.5	3561.1	3557.6	3609.4	3592.1	3599.0	3519.6	3474.7	3381.4
32.5°	3619.8	3612.9	3647.4	3692.3	3709.6	3737.2	3733.8	3733.8	3685.4	3568.0	3585.2
35°	3757.9	3806.3	3847.7	3896.1	3903.0	3937.5	3889.2	3896.1	3847.7	3761.4	3789.0
37.5°	4030.8	4027.3	4072.2	4131.0	4137.9	4110.2	4148.2	4131.0	4065.3	4006.6	3961.7
40°	4348.6	4279.5	4320.9	4459.1	4469.5	4421.1	4417.6	4414.2	4365.8	4238.0	4210.4
42.5°	4624.9	4714.7	4707.8	4752.7	4721.6	4697.4	4783.8	4735.4	4697.4	4562.7	4538.5
45°	4980.6	5008.3	5098.1	5243.1	5094.6	5094.6	5153.3	5115.3	5094.6	4994.5	4901.2
47.5°	5422.8	5446.9	5626.5	5636.9	5540.2	5474.6	5657.6	5664.5	5578.2	5502.2	5388.2
50°	5940.8	5951.2	6113.5	6279.3	6172.3	6047.9	6234.4	6307.0	6113.5	6009.9	5868.3
52.5°	6510.8	6479.7	6614.4	6925.2	6821.6	6783.6	6984.0	7001.2	6738.7	6576.4	6614.4
55°	7167.0	7125.6	7491.7	7702.4	7636.8	7567.7	7657.5	7698.9	7488.2	7222.3	7315.5
57.5°	8016.7	8037.4	8220.5	8427.7	8534.8	8552.1	8593.5	8552.1	8337.9	8068.5	7982.2
60°	8866.4	8928.5	9284.3	9674.6	9709.1	10013.1	9957.8	9750.6	9446.6	9063.2	9080.5
62.5°	9180.7	9128.9	9702.2	10655.5	11467.2	12023.3	11778.1	11042.4	10337.8	9640.1	9691.9
65°	8548.6	8676.4	9457.0	10949.1	12710.7	14910.8	13605.2	11570.8	10147.8	9246.3	9146.1
67.5°	7367.3	7464.1	8455.3	10030.4	13156.2	16686.2	14296.0	10824.8	8949.3	7781.8	7844.0
70°	5132.6	5181.0	6151.5	8217.0	11930.1	15746.7	12897.2	8313.7	6179.2	4925.4	4994.5
72.5°	2065.5	2182.9	2821.9	4949.6	8807.7	11964.6	8683.3	4362.4	2562.9	1906.6	1730.4
75°	763.3	766.8	901.5	1702.8	4182.8	7519.3	3916.8	1402.3	818.6	670.1	639.0
77.5°	442.1	438.7	469.7	614.8	1212.3	2935.9	1112.2	549.2	445.6	400.7	383.4
80°	276.3	272.9	321.2	407.6	531.9	804.8	469.7	341.9	300.5	259.0	259.0
82.5°	176.2	179.6	252.1	300.5	324.7	355.8	272.9	241.8	224.5	148.5	145.1
85°	114.0	103.6	176.2	200.3	179.6	158.9	152.0	127.8	117.4	72.5	79.4
87.5°	51.8	55.3	89.8	100.2	65.6	38.0	38.0	27.6	27.6	17.3	17.3
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)