

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: P479083

Luminaire Tested: **IFLD-L-SA8A-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479083  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

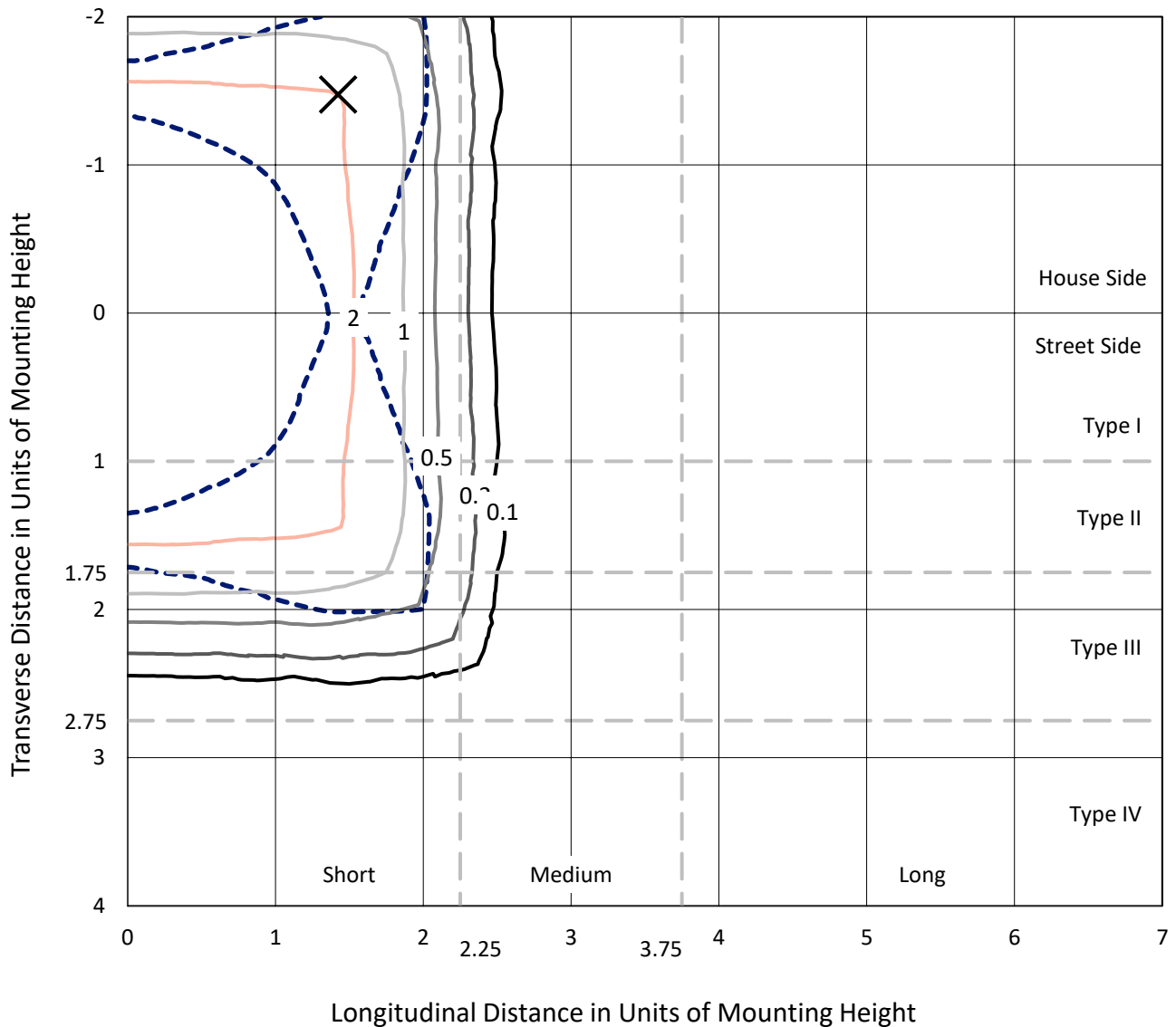
Lumens per Lamp: N/A  
Luminaire Lumens: 25115.6 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 247.8  
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

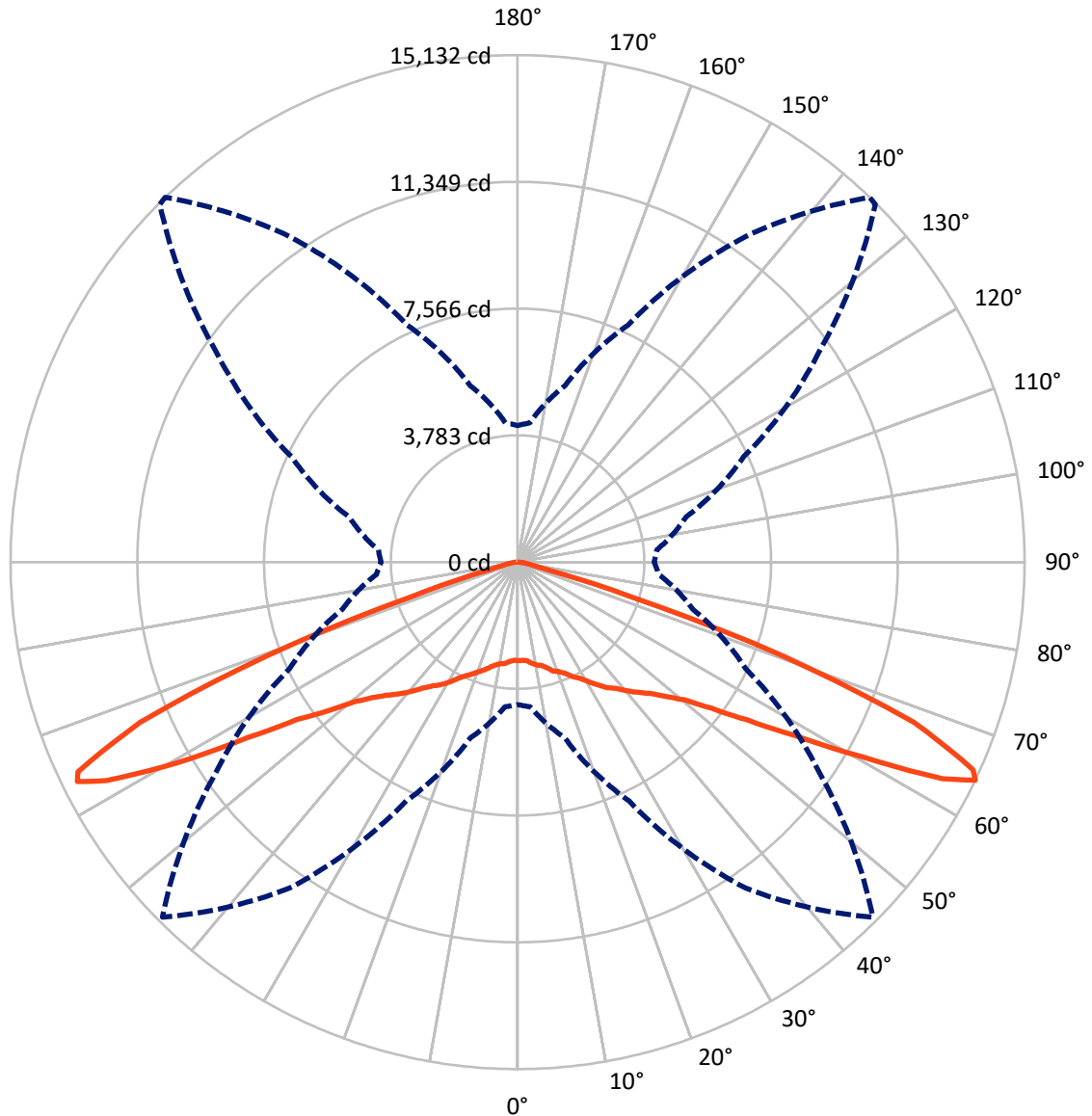
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12569.8	0.0	12569.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12545.8	0.0	12545.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25115.6	0.0	25115.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.9	1.2
10°-20°	931.2	3.7
20°-30°	1750.1	7.0
30°-40°	2886.3	11.5
40°-50°	4513.9	18.0
50°-60°	7293.4	29.0
60°-70°	6567.3	26.1
70°-80°	777.9	3.1
80°-90°	106.5	0.4
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°	25115.6	100.0
0°-180°	25115.6	100.0

**Coefficient of Utilization**



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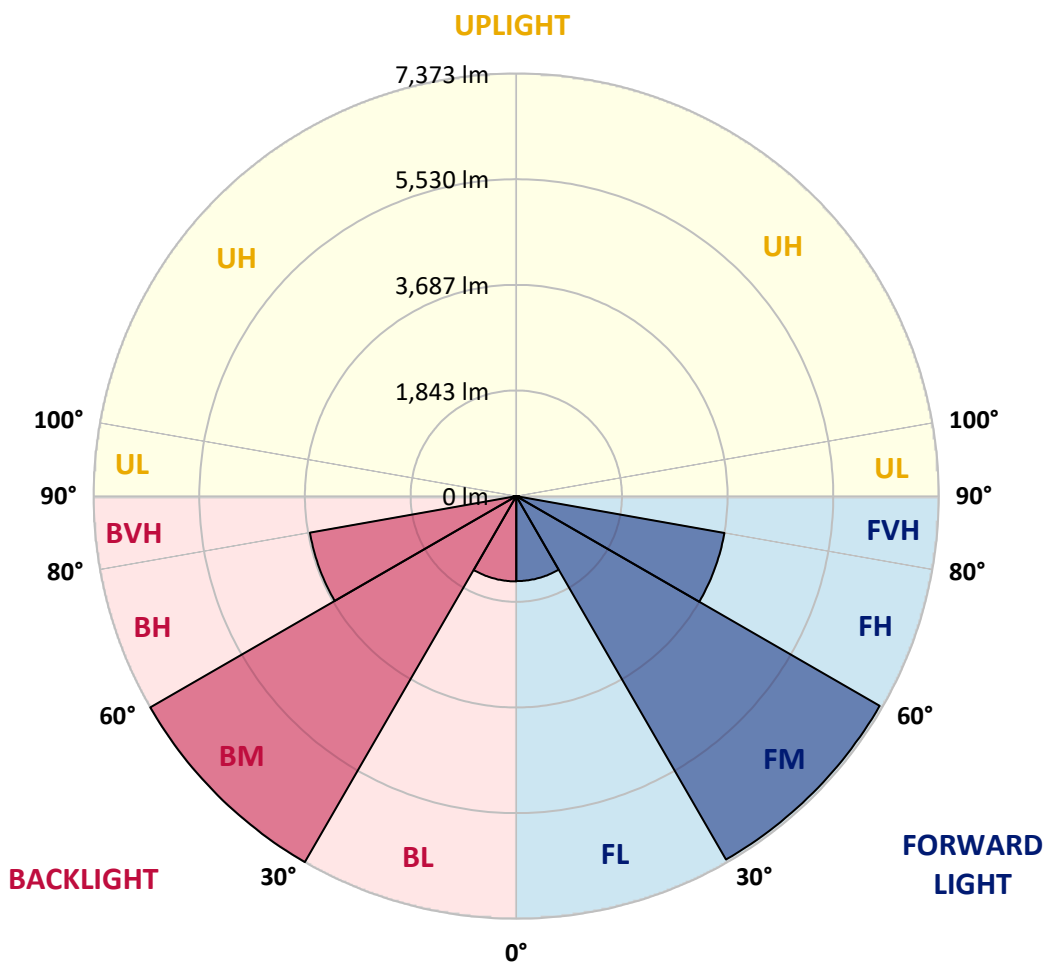
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.3	5.9			
FM (30°-60°)	7320.4	29.1			
FH (60°-80°)	3688.5	14.7			G2/5000
FVH (80°-90°)	54.6	0.2			G1/100
BL (0°-30°)	1488.0	5.9	B3/2500		
BM (30°-60°)	7373.2	29.4	B4/8500		
BH (60°-80°)	3656.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	51.9	0.2			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°	45°	55°	65°	75°	85°	90°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2906.0	2911.7	2963.6	2943.4	2960.7	2929.0	2952.0	3001.0	2943.4	2986.6	3001.0
5°	2937.6	2946.3	2946.3	2966.4	2978.0	2972.2	2986.6	2966.4	3021.2	2998.1	3032.7
7.5°	3052.8	3038.4	3015.4	3032.7	3035.6	3050.0	3064.4	3090.3	3081.6	3061.5	3096.0
10°	3073.0	3061.5	3096.0	3098.9	3084.5	3073.0	3087.4	3087.4	3113.3	3119.1	3119.1
12.5°	3107.6	3119.1	3116.2	3139.2	3142.1	3133.5	3156.5	3199.7	3188.2	3196.8	3176.7
15°	3240.0	3225.6	3222.8	3245.8	3283.2	3228.5	3268.8	3266.0	3254.4	3271.7	3225.6
17.5°	3355.2	3309.2	3329.3	3366.8	3352.4	3363.9	3415.7	3369.6	3381.2	3361.0	3346.6
20°	3456.0	3418.6	3421.5	3435.9	3435.9	3470.5	3490.6	3473.3	3461.8	3458.9	3464.7
22.5°	3568.4	3525.2	3528.1	3588.5	3608.7	3597.2	3582.8	3611.6	3617.3	3594.3	3620.2
25°	3651.9	3698.0	3712.4	3741.2	3698.0	3729.7	3718.1	3772.9	3807.4	3761.3	3793.0
27.5°	3870.8	3850.6	3888.1	3885.2	3919.7	3888.1	3908.2	3925.5	3939.9	3942.8	3928.4
30°	4066.6	4075.3	4037.8	4138.6	4058.0	4109.8	4144.4	4153.0	4170.3	4170.3	4127.1
32.5°	4274.0	4256.7	4317.2	4294.1	4279.7	4320.1	4282.6	4400.7	4331.6	4371.9	4322.9
35°	4507.3	4507.3	4530.3	4593.7	4507.3	4481.3	4550.5	4599.4	4599.4	4527.4	4544.7
37.5°	4769.3	4746.3	4775.1	4855.8	4789.5	4703.1	4829.8	4850.0	4835.6	4815.4	4780.9
40°	4953.7	4947.9	5005.5	5112.1	5017.0	4999.8	5022.8	5077.5	5094.8	5115.0	5068.9
42.5°	5264.7	5290.6	5457.7	5431.8	5354.0	5293.5	5287.8	5492.2	5443.3	5391.4	5365.5
45°	5725.5	5702.5	5788.9	5791.8	5691.0	5558.5	5587.3	5774.5	5858.0	5742.8	5786.0
47.5°	6091.3	6102.8	6163.3	6287.1	6053.8	5915.6	6022.2	6324.6	6298.7	6255.5	6295.8
50°	6580.9	6632.7	6822.8	6779.6	6572.3	6402.3	6635.6	6920.7	6952.4	6794.0	6765.2
52.5°	7257.7	7338.3	7442.0	7476.6	7277.9	7217.4	7231.8	7586.0	7508.3	7355.6	7257.7
55°	7851.0	7888.4	8078.5	8363.6	8349.2	8058.4	8225.4	8357.9	8041.1	7727.2	7753.1
57.5°	8104.4	8121.7	8651.6	9221.9	9561.7	9628.0	9437.9	8991.5	8236.9	7632.1	7594.7
60°	7473.7	7637.9	8277.2	9564.6	11117.0	11883.1	10618.7	9063.5	7779.0	7044.6	6989.9
62.5°	5973.2	5981.8	6932.3	8884.9	12084.7	14092.0	11070.9	8386.7	6557.9	5725.5	5506.6
64°	4253.8	4334.5	5426.0	7865.4	11883.1	14990.6	11016.2	7502.5	5405.8	4225.0	4072.4
65°	3052.8	3165.2	4219.3	6828.6	11410.7	14884.1	10852.0	6742.2	4371.9	3225.6	3070.1
67.5°	1123.2	1169.3	1656.0	3415.7	8193.7	12683.7	8599.8	3706.6	1921.0	1368.0	1229.8
70°	521.3	524.2	613.4	1129.0	3582.8	8481.7	4104.1	1391.1	722.9	573.1	532.8
72.5°	383.0	391.7	429.1	521.3	1054.1	3591.4	1347.9	570.2	423.4	374.4	365.8
75°	311.0	316.8	328.3	377.3	486.7	961.9	547.2	394.6	337.0	302.4	290.9
77.5°	239.0	239.0	265.0	288.0	322.6	449.3	362.9	313.9	273.6	239.0	230.4
80°	172.8	175.7	207.4	224.6	218.9	296.6	262.1	259.2	224.6	187.2	172.8
82.5°	100.8	109.4	149.8	161.3	155.5	175.7	190.1	201.6	175.7	129.6	118.1
85°	57.6	60.5	86.4	89.3	89.3	83.5	109.4	121.0	118.1	80.6	72.0
87.5°	17.3	17.3	23.0	23.0	25.9	28.8	43.2	51.8	57.6	40.3	37.4
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°	136°	145°	155°	165°	175°	180°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2986.6	2943.4	2946.3	2957.8	2920.4	2934.8	2978.0	2946.3	2937.6	2920.4	2911.7
5°	2972.2	3018.3	3001.0	3006.8	2998.1	2957.8	2952.0	2978.0	2992.4	2966.4	3018.3
7.5°	3073.0	3052.8	3029.8	3038.4	3018.3	3052.8	3075.9	3024.0	3050.0	3035.6	3006.8
10°	3130.6	3093.2	3110.4	3104.7	3090.3	3124.8	3101.8	3096.0	3073.0	3041.3	3087.4
12.5°	3150.8	3194.0	3222.8	3173.8	3182.4	3165.2	3150.8	3150.8	3124.8	3116.2	3124.8
15°	3240.0	3277.5	3266.0	3303.4	3254.4	3271.7	3289.0	3245.8	3268.8	3205.5	3254.4
17.5°	3404.2	3372.5	3412.8	3363.9	3381.2	3415.7	3361.0	3361.0	3378.3	3343.7	3300.5
20°	3507.9	3493.5	3479.1	3482.0	3453.2	3484.9	3467.6	3458.9	3433.0	3444.5	3467.6
22.5°	3605.8	3585.7	3591.4	3600.1	3620.2	3605.8	3597.2	3605.8	3542.5	3600.1	3519.4
25°	3726.8	3781.5	3764.2	3801.7	3744.1	3781.5	3778.6	3723.9	3758.5	3735.4	3718.1
27.5°	3928.4	3899.6	3925.5	3879.4	3919.7	3922.6	3888.1	3980.2	3939.9	3934.1	3922.6
30°	4187.6	4167.4	4150.1	4124.2	4155.9	4130.0	4158.8	4167.4	4130.0	4101.2	4046.5
32.5°	4334.5	4389.2	4409.3	4346.0	4348.9	4363.3	4337.3	4311.4	4334.5	4343.1	4334.5
35°	4541.8	4593.7	4605.2	4556.2	4530.3	4602.3	4550.5	4636.9	4562.0	4564.9	4487.1
37.5°	4783.7	4798.1	4896.1	4841.3	4818.3	4783.7	4878.8	4867.3	4884.6	4746.3	4815.4
40°	5057.4	5109.2	5163.9	5025.7	5022.8	5054.5	5048.7	5115.0	5083.3	5063.1	5014.2
42.5°	5356.9	5466.3	5475.0	5382.8	5325.2	5319.4	5348.2	5495.1	5498.0	5365.5	5307.9
45°	5754.3	5875.3	5843.6	5665.0	5601.7	5593.0	5734.2	5797.5	5852.2	5800.4	5751.4
47.5°	6249.7	6330.3	6307.3	6143.1	5938.6	5996.2	6134.5	6333.2	6275.6	6206.5	6148.9
50°	6779.6	6874.7	6825.7	6661.5	6465.7	6465.7	6635.6	6889.1	6871.8	6736.4	6684.6
52.5°	7367.1	7505.4	7617.7	7384.4	7220.3	7246.2	7514.0	7606.2	7563.0	7467.9	7424.7
55°	7804.9	8069.9	8300.3	8311.8	8320.4	8317.6	8386.7	8478.8	8170.7	8018.0	7862.5
57.5°	7698.4	8199.5	8988.6	9524.3	9682.7	9766.2	9743.2	9316.9	8588.3	8087.2	8139.0
60°	6938.0	7756.0	9028.9	10748.3	11900.3	11785.1	11364.6	9679.8	8357.9	7511.1	7404.6
62.5°	5535.4	6520.4	8352.1	11093.9	14267.7	14233.2	12032.8	8841.7	6963.9	5892.6	5826.3
64°	4170.3	5207.1	7450.7	11004.6	15097.2	15131.7	11862.9	7810.7	5449.0	4170.3	4069.5
65°	3191.1	4153.0	6566.5	10820.3	14918.6	14938.8	11390.6	6745.1	4141.5	2960.7	2851.2
67.5°	1270.1	1768.3	3562.6	8205.2	12810.4	12755.7	8127.5	3263.1	1584.0	1031.1	1010.9
70°	541.4	673.9	1249.9	3888.1	8576.8	8418.4	3499.3	1059.9	587.5	492.5	489.6
72.5°	371.5	411.8	535.7	1201.0	3565.5	3482.0	996.5	492.5	400.3	368.6	368.6
75°	299.5	328.3	388.8	504.0	944.7	910.1	469.4	362.9	319.7	296.6	293.8
77.5°	233.3	262.1	305.3	348.5	432.0	429.1	313.9	273.6	247.7	230.4	224.6
80°	184.3	213.1	241.9	247.7	282.2	276.5	213.1	216.0	201.6	167.0	164.2
82.5°	126.7	172.8	193.0	175.7	167.0	167.0	152.6	152.6	141.1	103.7	95.0
85°	77.8	115.2	121.0	103.7	77.8	77.8	83.5	80.6	74.9	54.7	51.8
87.5°	40.3	54.7	49.0	40.3	25.9	25.9	23.0	17.3	17.3	14.4	14.4
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)