

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: P478841

Luminaire Tested: **IFLD-M-SA4C-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478841
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

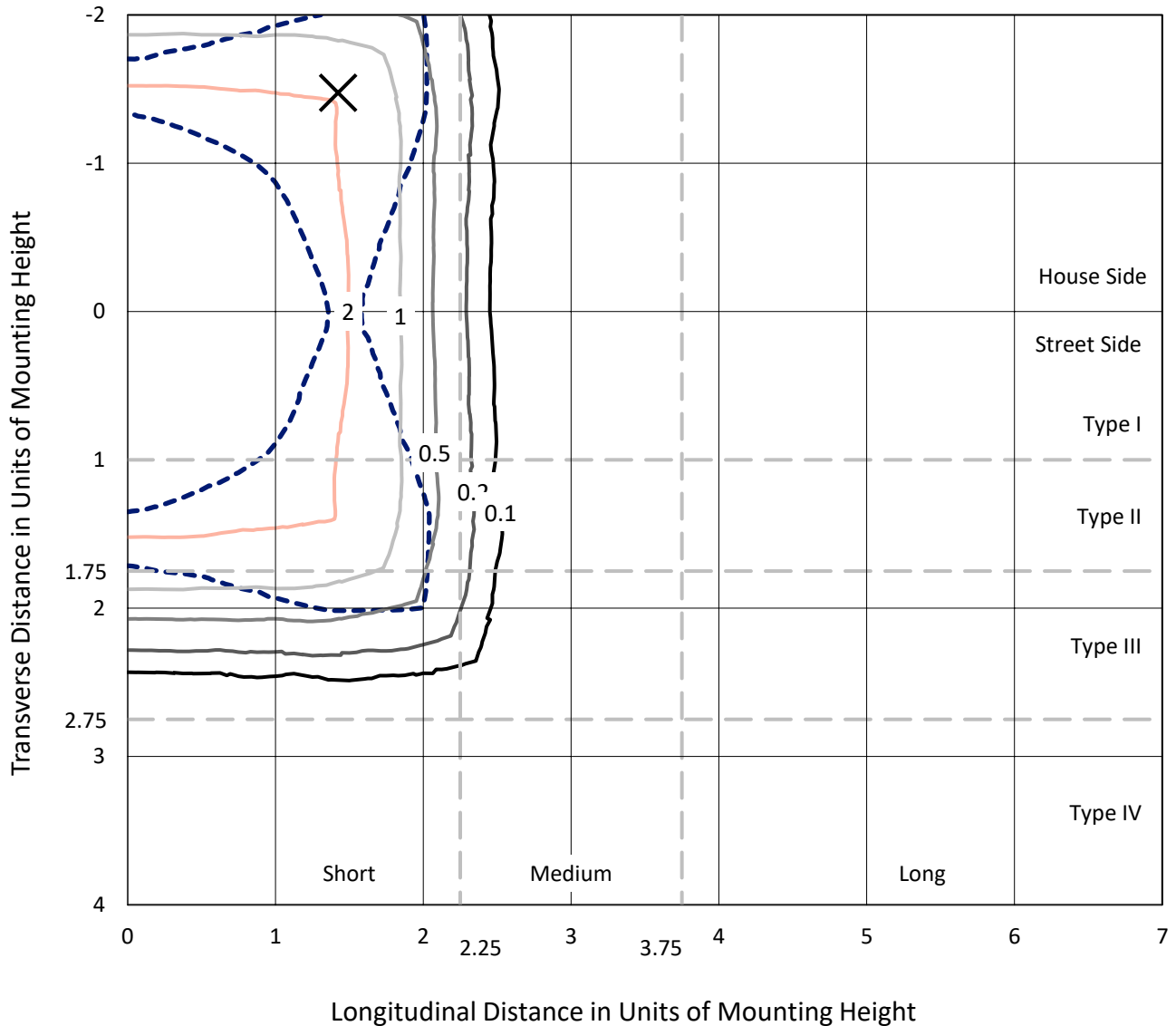
Lumens per Lamp: N/A
Luminaire Lumens: 23715 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 218.1
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

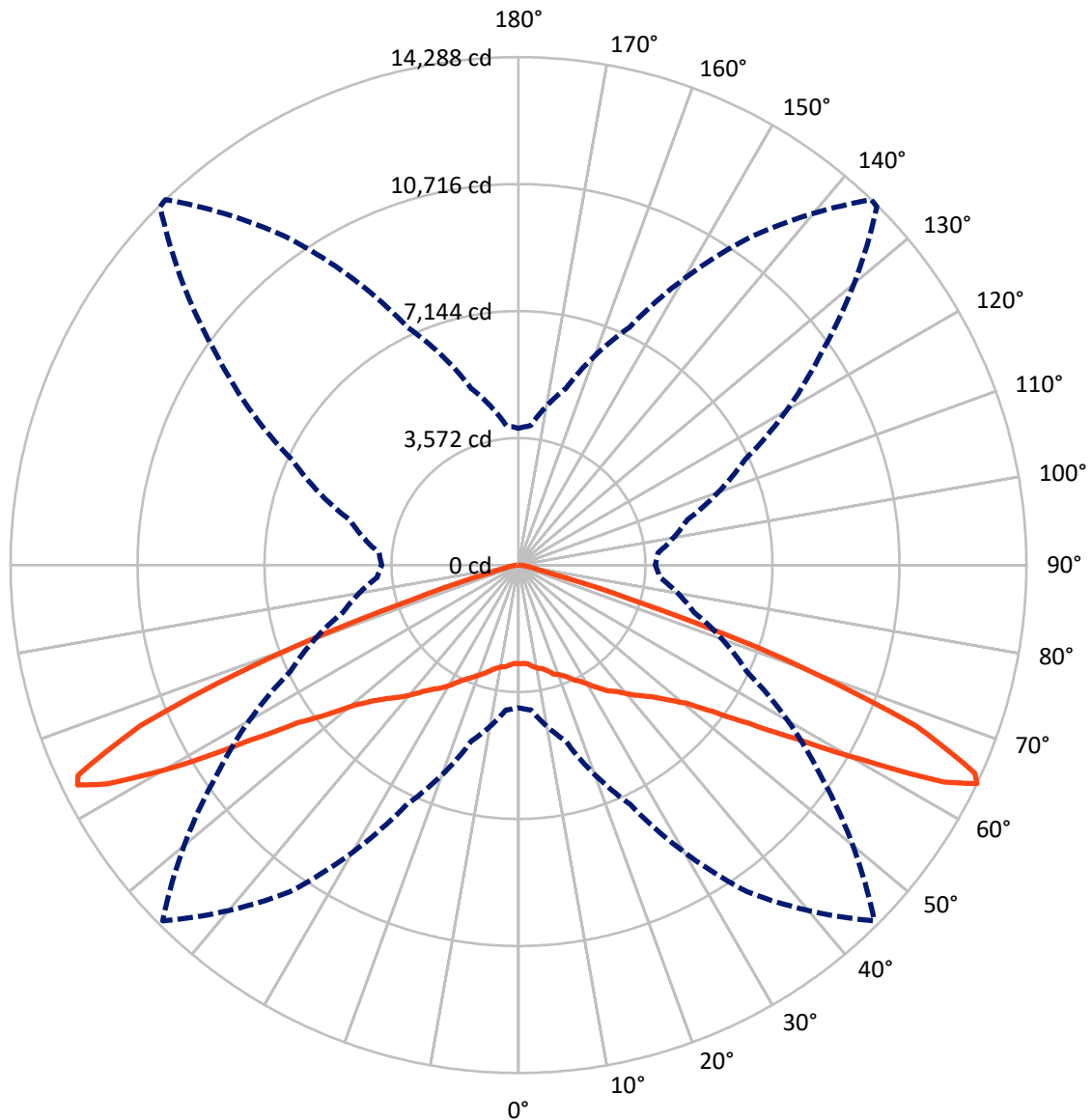
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	11868.8	0.0	11868.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11846.2	0.0	11846.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	23715.0	0.0	23715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.2
10°-20°	879.3	3.7
20°-30°	1652.5	7.0
30°-40°	2725.3	11.5
40°-50°	4262.2	18.0
50°-60°	6886.7	29.0
60°-70°	6201.0	26.1
70°-80°	734.5	3.1
80°-90°	100.5	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°	23715.0	100.0
0°-180°	23715.0	100.0

Coefficient of Utilization



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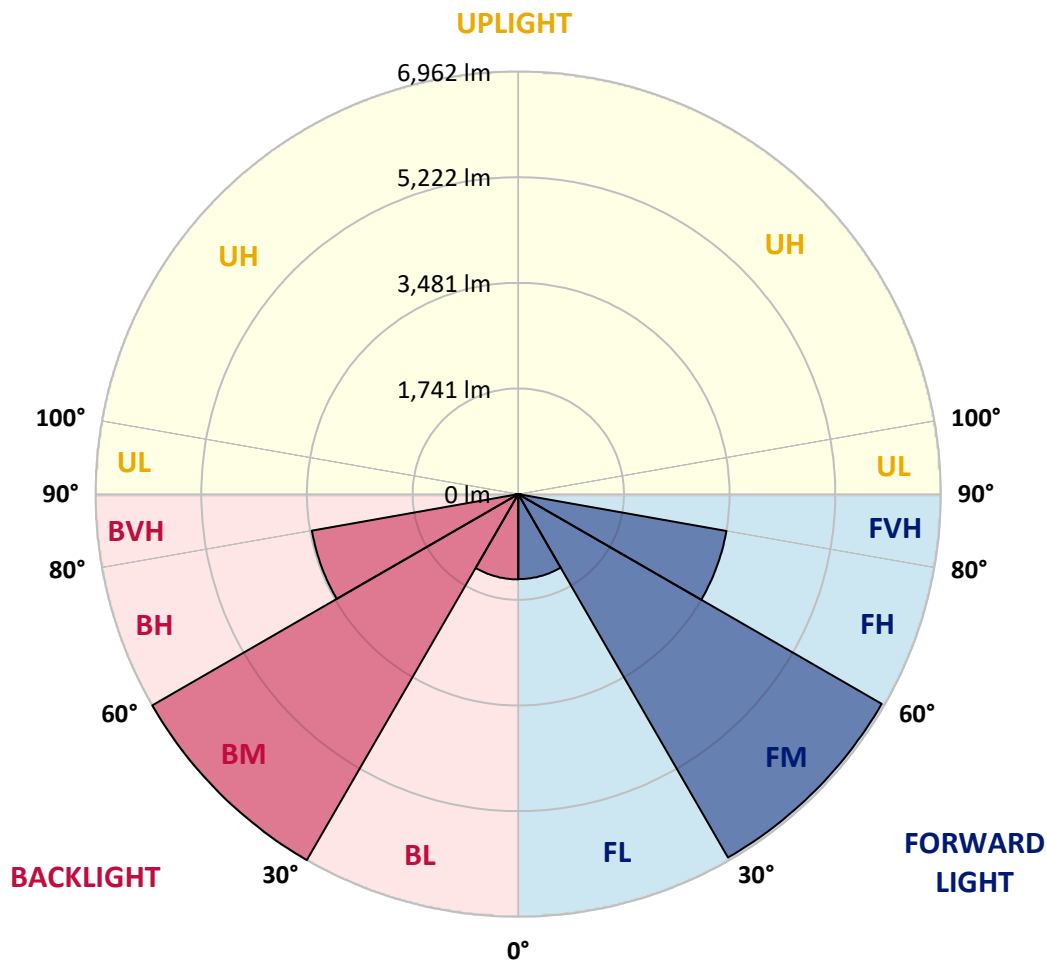
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.6	5.9			
FM (30°-60°)	6912.2	29.1			
FH (60°-80°)	3482.8	14.7			G2/5000
FVH (80°-90°)	51.6	0.2			G1/100
BL (0°-30°)	1405.0	5.9	B3/2500		
BM (30°-60°)	6962.0	29.4	B4/8500		
BH (60°-80°)	3452.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	49.0	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°	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5
2.5°	2743.9	2749.3	2798.3	2779.3	2795.6	2765.7	2787.4	2833.6	2779.3	2820.0	2833.6
5°	2773.8	2782.0	2782.0	2801.0	2811.9	2806.4	2820.0	2801.0	2852.7	2830.9	2863.6
7.5°	2882.6	2869.0	2847.2	2863.6	2866.3	2879.9	2893.5	2917.9	2909.8	2890.8	2923.4
10°	2901.6	2890.8	2923.4	2926.1	2912.5	2901.6	2915.2	2915.2	2939.7	2945.1	2945.1
12.5°	2934.3	2945.1	2942.4	2964.2	2966.9	2958.7	2980.5	3021.3	3010.4	3018.6	2999.5
15°	3059.4	3045.8	3043.0	3064.8	3100.1	3048.5	3086.5	3083.8	3073.0	3089.3	3045.8
17.5°	3168.1	3124.6	3143.7	3179.0	3165.4	3176.3	3225.2	3181.7	3192.6	3173.6	3160.0
20°	3263.3	3228.0	3230.7	3244.3	3244.3	3276.9	3295.9	3279.6	3268.8	3266.0	3271.5
22.5°	3369.4	3328.6	3331.3	3388.4	3407.4	3396.6	3383.0	3410.2	3415.6	3393.8	3418.3
25°	3448.2	3491.7	3505.3	3532.5	3491.7	3521.7	3510.8	3562.4	3595.1	3551.6	3581.5
27.5°	3654.9	3635.9	3671.2	3668.5	3701.1	3671.2	3690.3	3706.6	3720.2	3722.9	3709.3
30°	3839.8	3848.0	3812.6	3907.8	3831.7	3880.6	3913.3	3921.4	3937.7	3937.7	3896.9
32.5°	4035.6	4019.3	4076.4	4054.7	4041.1	4079.1	4043.8	4155.3	4090.0	4128.1	4081.9
35°	4255.9	4255.9	4277.7	4337.5	4255.9	4231.4	4296.7	4342.9	4342.9	4274.9	4291.3
37.5°	4503.4	4481.6	4508.8	4585.0	4522.4	4440.8	4560.5	4579.5	4565.9	4546.9	4514.2
40°	4677.4	4672.0	4726.4	4827.0	4737.2	4720.9	4742.7	4794.3	4810.7	4829.7	4786.2
42.5°	4971.1	4995.6	5153.3	5128.8	5055.4	4998.3	4992.9	5185.9	5139.7	5090.8	5066.3
45°	5406.2	5384.5	5466.0	5468.8	5373.6	5248.5	5275.7	5452.5	5531.3	5422.5	5463.3
47.5°	5751.6	5762.5	5819.6	5936.5	5716.2	5585.7	5686.3	5971.9	5947.4	5906.6	5944.7
50°	6213.9	6262.8	6442.3	6401.5	6205.7	6045.3	6265.6	6534.8	6564.7	6415.1	6387.9
52.5°	6853.0	6929.1	7027.0	7059.6	6872.0	6814.9	6828.5	7163.0	7089.5	6945.4	6853.0
55°	7413.2	7448.5	7628.0	7897.2	7883.6	7609.0	7766.7	7891.8	7592.6	7296.2	7320.7
57.5°	7652.5	7668.8	8169.2	8707.6	9028.5	9091.0	8911.6	8490.0	7777.6	7206.5	7171.1
60°	7056.9	7211.9	7815.6	9031.2	10497.0	11220.4	10026.5	8558.0	7345.2	6651.7	6600.0
62.5°	5640.1	5648.2	6545.7	8389.4	11410.7	13306.2	10453.5	7919.0	6192.1	5406.2	5199.5
64°	4016.6	4092.7	5123.4	7426.8	11220.4	14154.6	10401.8	7084.1	5104.4	3989.4	3845.3
65°	2882.6	2988.6	3984.0	6447.8	10774.4	14054.0	10246.8	6366.2	4128.1	3045.8	2898.9
67.5°	1060.6	1104.1	1563.7	3225.2	7736.8	11976.4	8120.2	3499.9	1813.9	1291.7	1161.2
70°	492.2	494.9	579.2	1066.0	3383.0	8008.7	3875.2	1313.5	682.6	541.2	503.1
72.5°	361.7	369.8	405.2	492.2	995.3	3391.1	1272.7	538.4	399.8	353.5	345.4
75°	293.7	299.1	310.0	356.2	459.6	908.3	516.7	372.6	318.2	285.5	274.7
77.5°	225.7	225.7	250.2	271.9	304.6	424.2	342.6	296.4	258.3	225.7	217.6
80°	163.2	165.9	195.8	212.1	206.7	280.1	247.5	244.7	212.1	176.8	163.2
82.5°	95.2	103.3	141.4	152.3	146.8	165.9	179.5	190.4	165.9	122.4	111.5
85°	54.4	57.1	81.6	84.3	84.3	78.9	103.3	114.2	111.5	76.1	68.0
87.5°	16.3	16.3	21.8	21.8	24.5	27.2	40.8	48.9	54.4	38.1	35.4
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°	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5	2776.5
2.5°	2820.0	2779.3	2782.0	2792.9	2757.5	2771.1	2811.9	2782.0	2773.8	2757.5	2749.3
5°	2806.4	2850.0	2833.6	2839.1	2830.9	2792.9	2787.4	2811.9	2825.5	2801.0	2850.0
7.5°	2901.6	2882.6	2860.8	2869.0	2850.0	2882.6	2904.3	2855.4	2879.9	2866.3	2839.1
10°	2956.0	2920.7	2937.0	2931.5	2917.9	2950.6	2928.8	2923.4	2901.6	2871.7	2915.2
12.5°	2975.1	3015.8	3043.0	2996.8	3005.0	2988.6	2975.1	2975.1	2950.6	2942.4	2950.6
15°	3059.4	3094.7	3083.8	3119.2	3073.0	3089.3	3105.6	3064.8	3086.5	3026.7	3073.0
17.5°	3214.4	3184.4	3222.5	3176.3	3192.6	3225.2	3173.6	3173.6	3189.9	3157.3	3116.5
20°	3312.3	3298.7	3285.1	3287.8	3260.6	3290.5	3274.2	3266.0	3241.6	3252.4	3274.2
22.5°	3404.7	3385.7	3391.1	3399.3	3418.3	3404.7	3396.6	3404.7	3344.9	3399.3	3323.1
25°	3518.9	3570.6	3554.3	3589.6	3535.3	3570.6	3567.9	3516.2	3548.9	3527.1	3510.8
27.5°	3709.3	3682.1	3706.6	3663.1	3701.1	3703.9	3671.2	3758.2	3720.2	3714.7	3703.9
30°	3954.0	3935.0	3918.7	3894.2	3924.1	3899.7	3926.9	3935.0	3899.7	3872.5	3820.8
32.5°	4092.7	4144.4	4163.4	4103.6	4106.3	4119.9	4095.5	4071.0	4092.7	4100.9	4092.7
35°	4288.5	4337.5	4348.4	4302.1	4277.7	4345.6	4296.7	4378.3	4307.6	4310.3	4236.9
37.5°	4517.0	4530.6	4623.0	4571.4	4549.6	4517.0	4606.7	4595.8	4612.1	4481.6	4546.9
40°	4775.3	4824.3	4875.9	4745.4	4742.7	4772.6	4767.2	4829.7	4799.8	4780.8	4734.5
42.5°	5058.1	5161.5	5169.6	5082.6	5028.2	5022.8	5050.0	5188.7	5191.4	5066.3	5011.9
45°	5433.4	5547.6	5517.7	5349.1	5289.3	5281.1	5414.4	5474.2	5525.9	5476.9	5430.7
47.5°	5901.2	5977.3	5955.5	5800.5	5607.5	5661.8	5792.4	5980.0	5925.6	5860.4	5806.0
50°	6401.5	6491.3	6445.0	6290.0	6105.1	6105.1	6265.6	6504.9	6488.6	6360.7	6311.8
52.5°	6956.3	7086.8	7192.9	6972.6	6817.6	6842.1	7095.0	7182.0	7141.2	7051.5	7010.7
55°	7369.6	7619.8	7837.4	7848.3	7856.4	7853.7	7919.0	8006.0	7715.0	7570.9	7424.0
57.5°	7269.0	7742.2	8487.3	8993.1	9142.7	9221.6	9199.8	8797.3	8109.3	7636.1	7685.1
60°	6551.1	7323.4	8525.4	10148.9	11236.7	11127.9	10730.9	9140.0	7891.8	7092.3	6991.6
62.5°	5226.7	6156.8	7886.3	10475.2	13472.0	13439.4	11361.8	8348.6	6575.6	5563.9	5501.4
64°	3937.7	4916.7	7035.2	10390.9	14255.2	14287.9	11201.3	7375.1	5145.2	3937.7	3842.5
65°	3013.1	3921.4	6200.3	10216.9	14086.6	14105.7	10755.3	6368.9	3910.5	2795.6	2692.2
67.5°	1199.3	1669.7	3363.9	7747.6	12096.0	12044.3	7674.2	3081.1	1495.7	973.6	954.5
70°	511.3	636.3	1180.2	3671.2	8098.5	7948.9	3304.1	1000.7	554.8	465.0	462.3
72.5°	350.8	388.9	505.8	1134.0	3366.6	3287.8	940.9	465.0	378.0	348.1	348.1
75°	282.8	310.0	367.1	475.9	892.0	859.3	443.3	342.6	301.9	280.1	277.4
77.5°	220.3	247.5	288.3	329.1	407.9	405.2	296.4	258.3	233.9	217.6	212.1
80°	174.0	201.2	228.4	233.9	266.5	261.1	201.2	204.0	190.4	157.7	155.0
82.5°	119.7	163.2	182.2	165.9	157.7	157.7	144.1	144.1	133.3	97.9	89.7
85°	73.4	108.8	114.2	97.9	73.4	73.4	78.9	76.1	70.7	51.7	48.9
87.5°	38.1	51.7	46.2	38.1	24.5	24.5	21.8	16.3	16.3	13.6	13.6
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)