

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: P479239

Luminaire Tested: **IFLD-L-SA8A-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479239
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

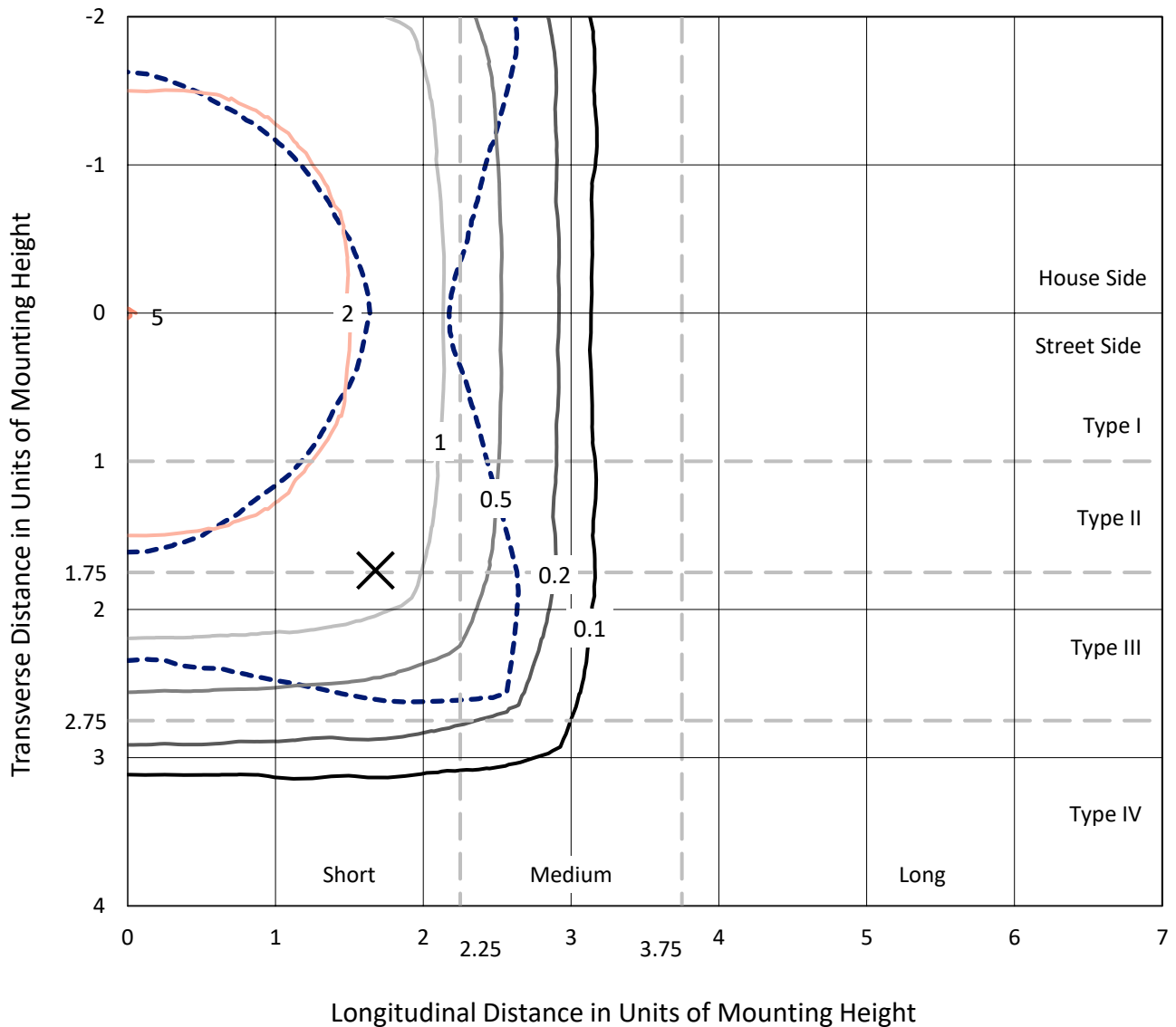
Lumens per Lamp: N/A
Luminaire Lumens: 28918 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 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

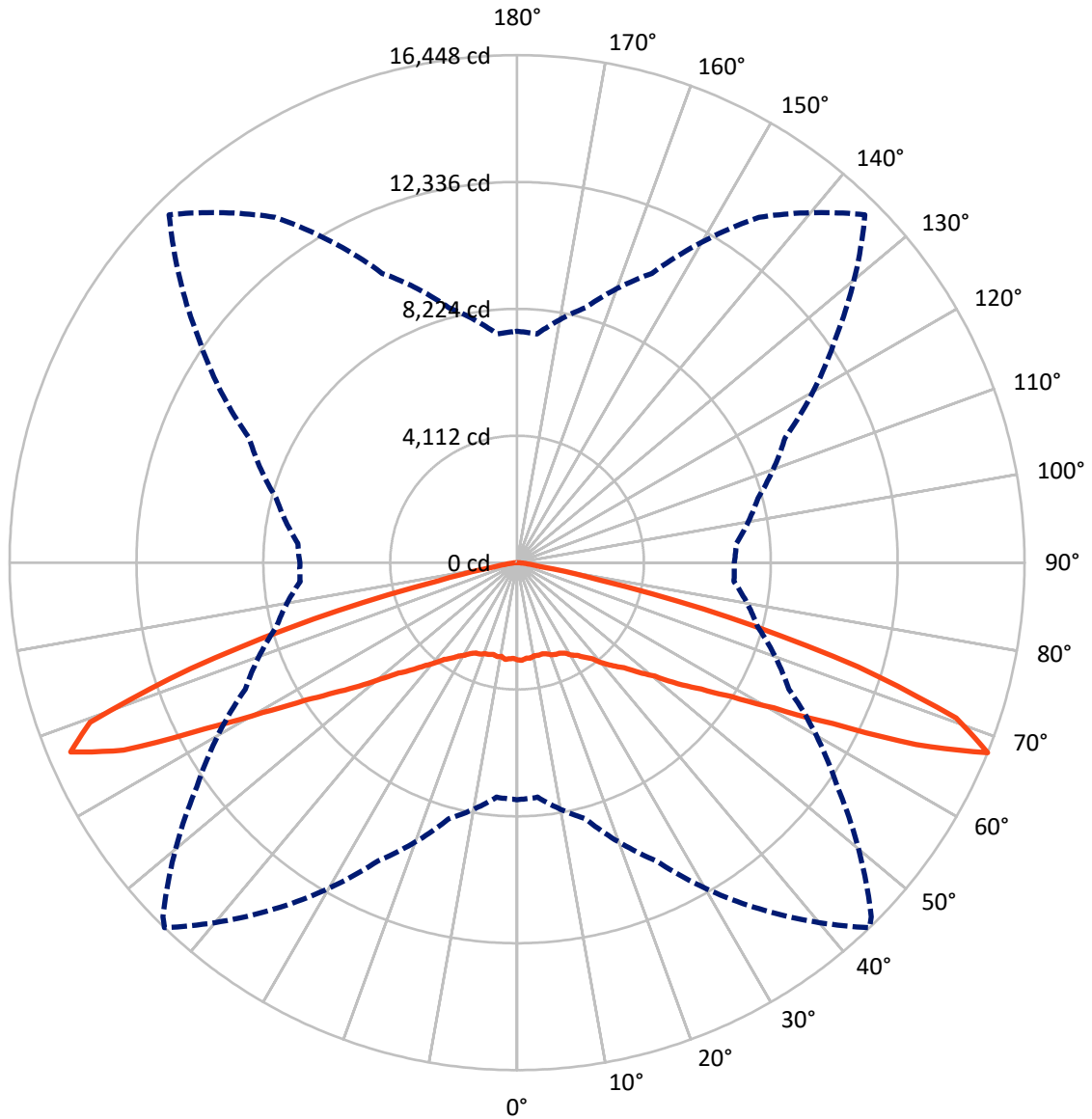
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	14422.0	0.0	14422.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14496.1	0.0	14496.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	28918.0	0.0	28918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.0
10°-20°	873.3	3.0
20°-30°	1485.1	5.1
30°-40°	2354.6	8.1
40°-50°	3839.4	13.3
50°-60°	6557.2	22.7
60°-70°	9973.4	34.5
70°-80°	3361.7	11.6
80°-90°	174.5	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°	28918.0	100.0
0°-180°	28918.0	100.0

Coefficient of Utilization



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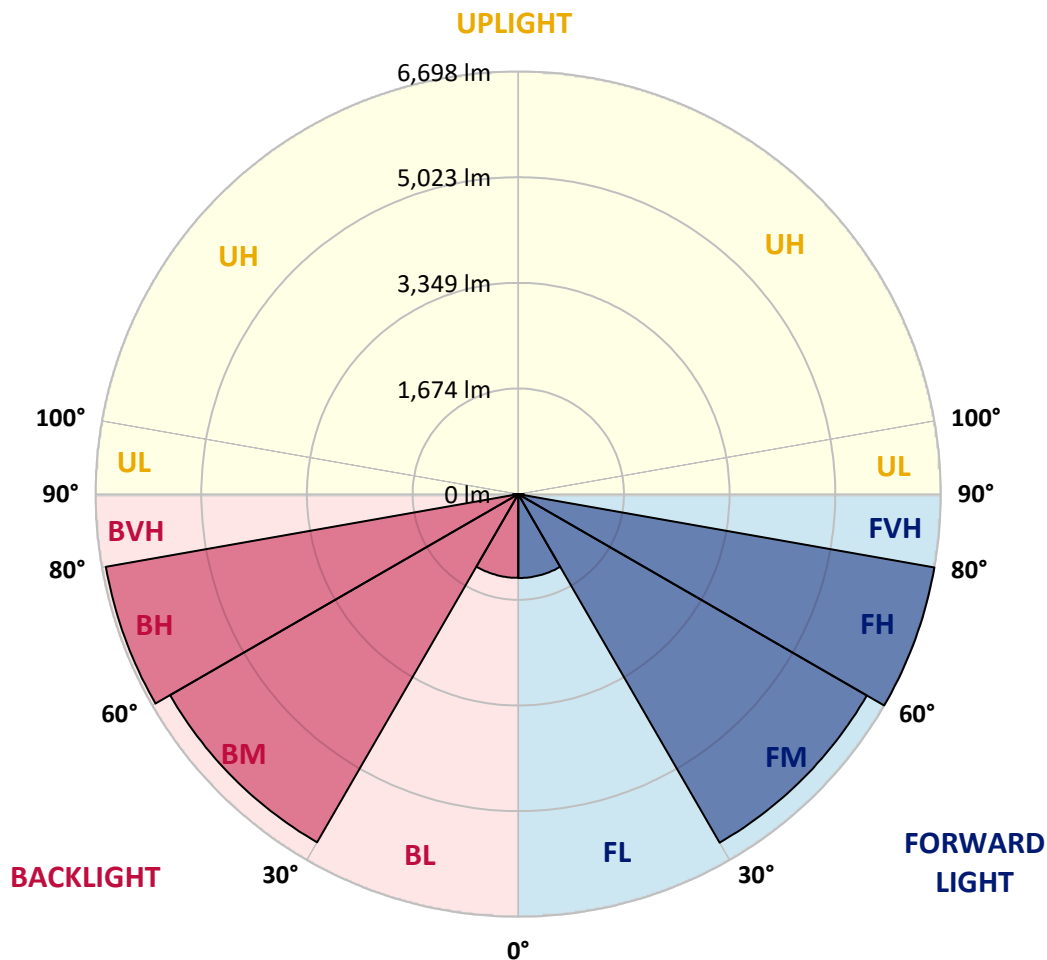
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.0	4.6			
FM (30°-60°)	6379.0	22.1			
FH (60°-80°)	6697.7	23.2			G3/7500
FVH (80°-90°)	89.3	0.3			G1/100
BL (0°-30°)	1327.3	4.6	B3/2500		
BM (30°-60°)	6372.2	22.0	B4/8500		
BH (60°-80°)	6637.3	23.0	B5		G3/7500
BVH (80°-90°)	85.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8
2.5°	3086.2	3122.5	3148.9	3145.6	3155.5	3165.4	3152.2	3172.0	3158.8	3181.9	3195.1
5°	3145.6	3135.7	3139.0	3119.2	3165.4	3112.6	3112.6	3139.0	3172.0	3132.4	3155.5
7.5°	3109.3	3102.7	3086.2	3115.9	3125.8	3125.8	3152.2	3102.7	3158.8	3172.0	3175.3
10°	3069.7	3033.4	3082.9	3112.6	3119.2	3066.4	3089.5	3102.7	3086.2	3102.7	3112.6
12.5°	3036.7	3056.5	3056.5	3056.5	3046.6	3082.9	3106.0	3102.7	3069.7	3099.4	3046.6
15°	3033.4	3023.5	3053.2	3079.6	3063.1	3069.7	3079.6	3109.3	3046.6	3059.8	3059.8
17.5°	3030.1	3043.3	3053.2	3049.9	3106.0	3106.0	3096.1	3076.3	3125.8	3099.4	3063.1
20°	3043.3	3033.4	3059.8	3069.7	3109.3	3188.5	3158.8	3142.3	3115.9	3082.9	3082.9
22.5°	3059.8	3053.2	3089.5	3132.4	3208.3	3228.1	3224.8	3205.0	3158.8	3119.2	3112.6
25°	3119.2	3059.8	3099.4	3181.9	3208.3	3247.9	3274.3	3247.9	3185.2	3195.1	3135.7
27.5°	3208.3	3198.4	3251.2	3307.3	3284.2	3320.5	3297.4	3317.2	3320.5	3271.0	3211.6
30°	3313.9	3284.2	3317.2	3426.2	3436.1	3475.7	3436.1	3383.2	3399.8	3356.8	3327.1
32.5°	3465.8	3455.9	3518.6	3591.2	3604.4	3584.6	3564.8	3594.5	3525.2	3492.2	3439.4
35°	3564.8	3607.7	3683.6	3739.7	3782.6	3762.8	3772.7	3743.0	3759.5	3690.2	3667.1
37.5°	3858.6	3842.0	3858.6	3954.3	3964.2	3954.3	3964.2	3997.2	3974.1	3914.7	3855.3
40°	4135.8	4109.4	4149.0	4257.9	4251.3	4284.3	4218.3	4254.6	4254.6	4142.4	4119.3
42.5°	4343.8	4432.9	4479.1	4568.2	4601.2	4571.5	4558.3	4564.9	4637.5	4505.5	4456.0
45°	4772.9	4769.6	4908.2	4957.7	4865.3	4858.7	4832.3	4911.5	4961.0	4885.1	4865.3
47.5°	5238.3	5261.4	5340.6	5360.4	5416.5	5314.2	5314.2	5324.1	5499.0	5320.8	5228.4
50°	5657.4	5687.2	5845.6	6000.7	5895.1	5786.2	5829.1	5881.9	5977.6	5809.3	5730.1
52.5°	6165.8	6327.5	6433.1	6515.6	6591.6	6515.6	6416.6	6476.0	6664.2	6439.7	6340.7
55°	6898.5	7027.3	7126.3	7278.1	7340.8	7238.5	7228.6	7222.0	7327.6	7090.0	6954.6
57.5°	7717.1	7664.3	7822.7	8057.1	8284.8	8185.8	8156.1	8162.7	8189.1	7852.4	7750.1
60°	8733.7	8793.1	8981.3	9185.9	9426.9	9565.5	9370.8	9258.5	9281.6	8822.8	8664.4
62.5°	9314.7	9446.7	9872.5	10575.5	11060.7	11493.1	11522.8	10793.4	10304.9	9413.7	8740.3
65°	9034.1	9014.3	9816.4	11116.9	12955.4	14212.9	14024.8	12255.6	10549.1	9133.1	8228.7
67.5°	7684.1	7631.3	8601.7	10664.7	13701.3	16447.5	16233.0	12668.2	9723.9	8080.2	7057.0
70°	4951.1	4937.9	5990.8	8129.7	12232.5	15100.8	15180.0	11506.3	7915.1	5918.2	4904.9
72.5°	1798.9	1907.8	2518.5	4370.2	8307.9	11552.5	11602.1	8519.2	4551.7	2736.3	2016.7
75°	663.4	683.3	795.5	1419.3	3785.9	7093.3	7278.1	4132.5	1617.4	891.2	726.2
77.5°	382.9	386.2	425.8	528.1	1122.2	2769.3	2881.5	1254.3	627.1	475.3	439.0
80°	260.8	257.5	300.4	343.3	448.9	785.6	835.1	524.8	396.1	330.1	277.3
82.5°	151.8	161.7	221.1	244.3	274.0	346.6	353.2	326.8	297.1	244.3	181.5
85°	92.4	75.9	122.1	135.3	158.4	155.1	155.1	178.2	191.4	171.6	102.3
87.5°	23.1	23.1	29.7	33.0	42.9	33.0	36.3	69.3	92.4	85.8	52.8
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°	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8	3158.8
2.5°	3165.4	3155.5	3162.1	3198.4	3175.3	3106.0	3122.5	3158.8	3129.1	3112.6	3109.3
5°	3152.2	3172.0	3148.9	3155.5	3178.6	3122.5	3132.4	3178.6	3158.8	3165.4	3129.1
7.5°	3155.5	3165.4	3145.6	3115.9	3115.9	3162.1	3135.7	3142.3	3112.6	3162.1	3096.1
10°	3135.7	3109.3	3086.2	3102.7	3096.1	3082.9	3073.0	3092.8	3063.1	3106.0	3059.8
12.5°	3076.3	3082.9	3076.3	3069.7	3082.9	3115.9	3063.1	3069.7	3023.5	3030.1	3053.2
15°	3053.2	3073.0	3066.4	3102.7	3119.2	3069.7	3109.3	3069.7	3033.4	3013.6	3049.9
17.5°	3063.1	3092.8	3082.9	3109.3	3079.6	3115.9	3122.5	3106.0	3063.1	3046.6	3063.1
20°	3073.0	3063.1	3076.3	3122.5	3165.4	3129.1	3129.1	3119.2	3079.6	3056.5	3056.5
22.5°	3096.1	3079.6	3099.4	3135.7	3148.9	3205.0	3155.5	3132.4	3066.4	3007.0	3063.1
25°	3142.3	3152.2	3165.4	3152.2	3224.8	3218.2	3211.6	3195.1	3092.8	3096.1	3086.2
27.5°	3231.4	3175.3	3191.8	3271.0	3280.9	3307.3	3274.3	3304.0	3195.1	3198.4	3132.4
30°	3340.3	3280.9	3333.7	3403.1	3399.8	3449.3	3432.8	3439.4	3363.4	3320.5	3231.4
32.5°	3459.2	3452.6	3485.6	3528.5	3545.0	3571.4	3568.1	3568.1	3521.9	3409.7	3426.2
35°	3591.2	3637.4	3677.0	3723.2	3729.8	3762.8	3716.6	3723.2	3677.0	3594.5	3620.9
37.5°	3851.9	3848.6	3891.6	3947.7	3954.3	3927.9	3964.2	3947.7	3885.0	3828.8	3785.9
40°	4155.6	4089.6	4129.2	4261.2	4271.1	4224.9	4221.6	4218.3	4172.1	4050.0	4023.6
42.5°	4419.7	4505.5	4498.9	4541.8	4512.1	4489.0	4571.5	4525.3	4489.0	4360.3	4337.2
45°	4759.7	4786.1	4871.9	5010.5	4868.6	4868.6	4924.7	4888.4	4868.6	4772.9	4683.7
47.5°	5182.1	5205.2	5376.9	5386.8	5294.4	5231.7	5406.6	5413.2	5330.7	5258.1	5149.1
50°	5677.3	5687.2	5842.3	6000.7	5898.4	5779.6	5957.8	6027.1	5842.3	5743.3	5607.9
52.5°	6221.9	6192.2	6320.9	6618.0	6518.9	6482.6	6674.1	6690.6	6439.7	6284.6	6320.9
55°	6849.0	6809.4	7159.3	7360.6	7297.9	7231.9	7317.7	7357.3	7156.0	6901.8	6990.9
57.5°	7661.0	7680.8	7855.7	8053.8	8156.1	8172.6	8212.2	8172.6	7968.0	7710.5	7628.0
60°	8473.0	8532.4	8872.4	9245.3	9278.3	9568.8	9516.0	9318.0	9027.5	8661.1	8677.6
62.5°	8773.3	8723.8	9271.7	10182.7	10958.4	11489.8	11255.5	10552.4	9879.1	9212.3	9261.8
65°	8169.3	8291.4	9037.4	10463.3	12146.7	14249.2	13001.6	11057.4	9697.5	8836.0	8740.3
67.5°	7040.5	7132.9	8080.2	9585.3	12572.5	15945.8	13661.7	10344.5	8552.2	7436.5	7496.0
70°	4904.9	4951.1	5878.6	7852.4	11400.7	15048.0	12324.9	7944.9	5905.0	4706.8	4772.9
72.5°	1973.8	2086.1	2696.7	4729.9	8416.9	11433.7	8298.0	4168.8	2449.1	1822.0	1653.7
75°	729.5	732.8	861.5	1627.3	3997.2	7185.7	3743.0	1340.1	782.3	640.3	610.6
77.5°	422.5	419.2	448.9	587.5	1158.6	2805.6	1062.8	524.8	425.8	382.9	366.4
80°	264.1	260.8	307.0	389.5	508.3	769.1	448.9	326.8	287.2	247.6	247.6
82.5°	168.3	171.6	241.0	287.2	310.3	340.0	260.8	231.1	214.5	141.9	138.6
85°	108.9	99.0	168.3	191.4	171.6	151.8	145.2	122.1	112.2	69.3	75.9
87.5°	49.5	52.8	85.8	95.7	62.7	36.3	36.3	26.4	26.4	16.5	16.5
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)