

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: P478901

Luminaire Tested: **IFLD-S-SA3E-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

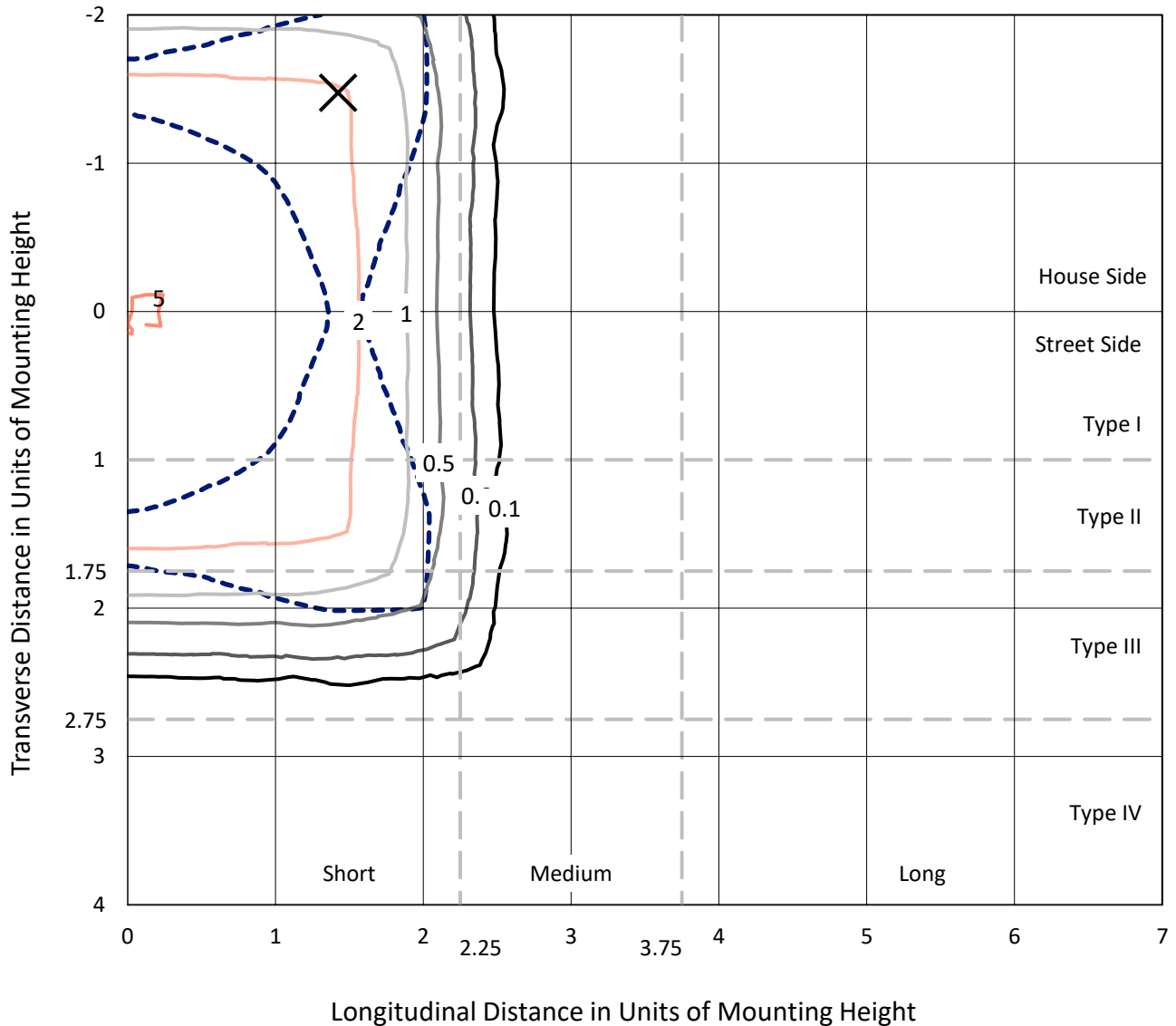
Lumens per Lamp: N/A
Luminaire Lumens: 26533.9 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

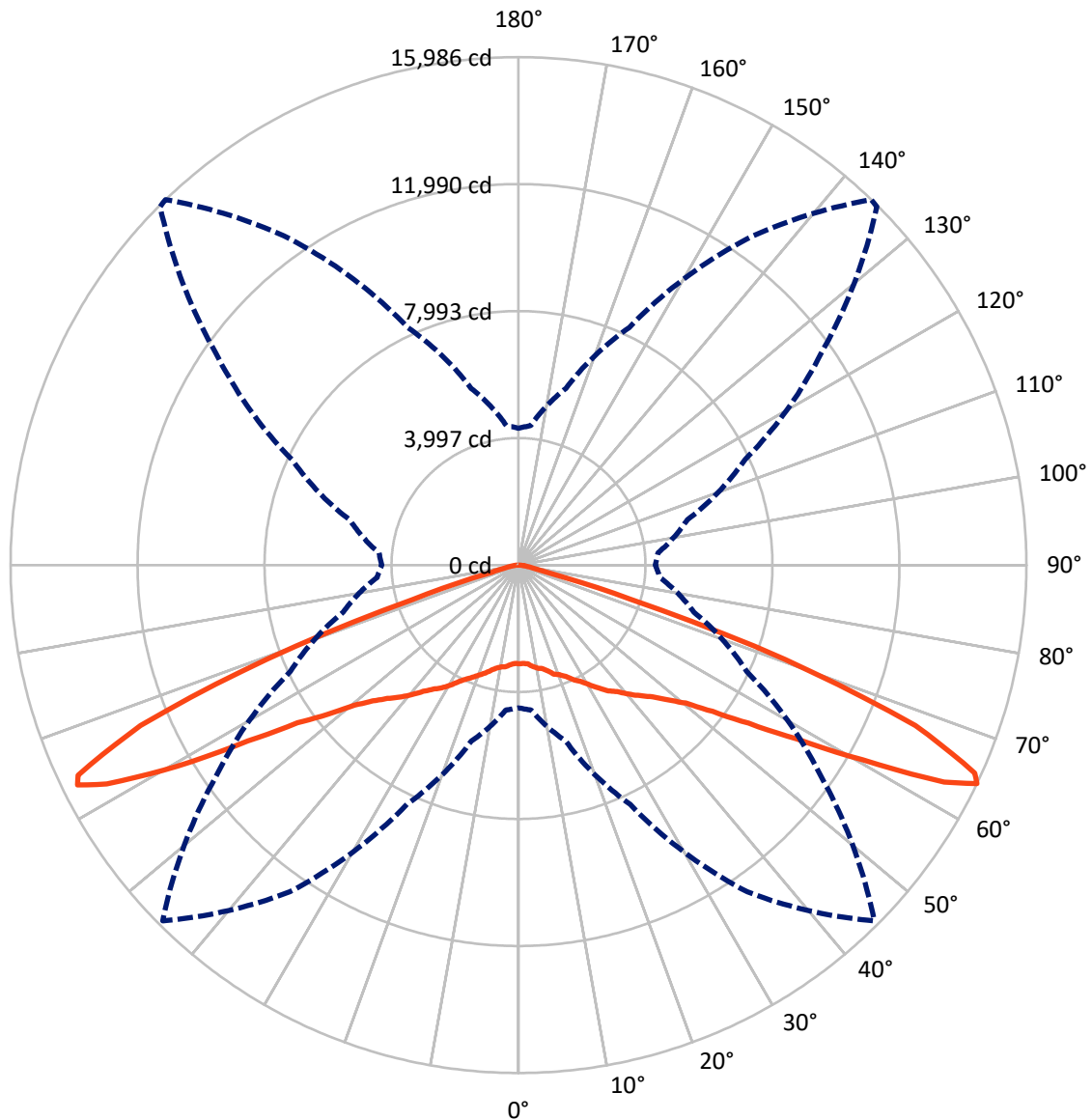
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	13279.6	0.0	13279.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13254.3	0.0	13254.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	26533.9	0.0	26533.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.2
10°-20°	983.8	3.7
20°-30°	1849.0	7.0
30°-40°	3049.3	11.5
40°-50°	4768.8	18.0
50°-60°	7705.3	29.0
60°-70°	6938.1	26.1
70°-80°	821.9	3.1
80°-90°	112.5	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°	26533.9	100.0
0°-180°	26533.9	100.0

Coefficient of Utilization



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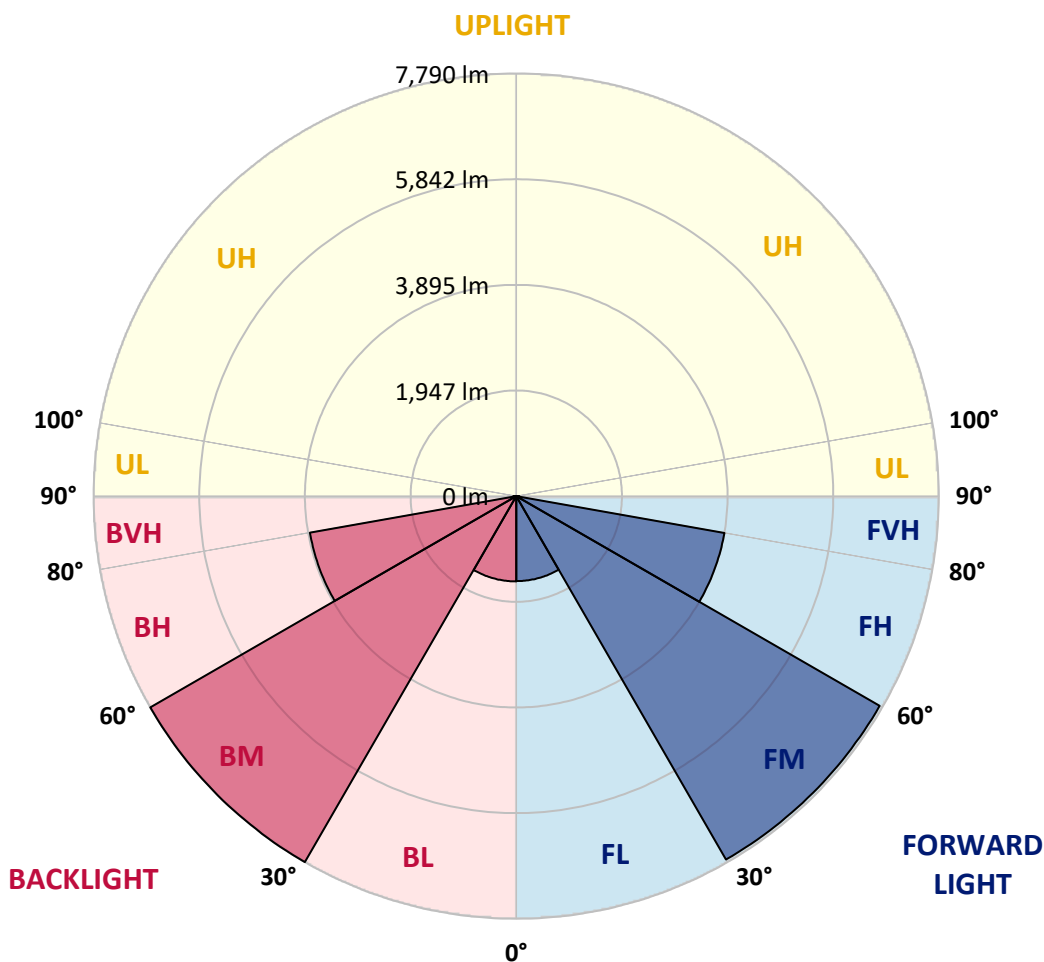
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.0	5.9			
FM (30°-60°)	7733.8	29.1			
FH (60°-80°)	3896.8	14.7			G2/5000
FVH (80°-90°)	57.7	0.2			G1/100
BL (0°-30°)	1572.0	5.9	B3/2500		
BM (30°-60°)	7789.6	29.4	B4/8500		
BH (60°-80°)	3863.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	54.8	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°	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6
2.5°	3070.1	3076.2	3130.9	3109.6	3127.9	3094.4	3118.7	3170.5	3109.6	3155.3	3170.5
5°	3103.5	3112.7	3112.7	3134.0	3146.1	3140.0	3155.3	3134.0	3191.8	3167.4	3203.9
7.5°	3225.2	3210.0	3185.7	3203.9	3207.0	3222.2	3237.4	3264.8	3255.7	3234.4	3270.9
10°	3246.5	3234.4	3270.9	3273.9	3258.7	3246.5	3261.8	3261.8	3289.1	3295.2	3295.2
12.5°	3283.1	3295.2	3292.2	3316.5	3319.6	3310.4	3334.8	3380.4	3368.2	3377.4	3356.1
15°	3423.0	3407.8	3404.8	3429.1	3468.7	3410.8	3453.4	3450.4	3438.2	3456.5	3407.8
17.5°	3544.7	3496.0	3517.3	3556.9	3541.7	3553.9	3608.6	3559.9	3572.1	3550.8	3535.6
20°	3651.2	3611.7	3614.7	3629.9	3629.9	3666.4	3687.7	3669.5	3657.3	3654.3	3660.3
22.5°	3769.9	3724.2	3727.3	3791.2	3812.5	3800.3	3785.1	3815.5	3821.6	3797.3	3824.7
25°	3858.1	3906.8	3922.0	3952.4	3906.8	3940.3	3928.1	3985.9	4022.4	3973.7	4007.2
27.5°	4089.4	4068.1	4107.6	4104.6	4141.1	4107.6	4128.9	4147.2	4162.4	4165.4	4150.2
30°	4296.3	4305.4	4265.8	4372.3	4287.1	4341.9	4378.4	4387.5	4405.8	4405.8	4360.2
32.5°	4515.3	4497.1	4561.0	4536.6	4521.4	4564.0	4524.5	4649.2	4576.2	4618.8	4567.1
35°	4761.8	4761.8	4786.1	4853.1	4761.8	4734.4	4807.4	4859.2	4859.2	4783.1	4801.4
37.5°	5038.7	5014.3	5044.8	5130.0	5060.0	4968.7	5102.6	5123.9	5108.7	5087.4	5050.9
40°	5233.4	5227.3	5288.2	5400.8	5300.4	5282.1	5306.4	5364.2	5382.5	5403.8	5355.1
42.5°	5562.0	5589.4	5765.9	5738.5	5656.3	5592.4	5586.4	5802.4	5750.7	5695.9	5668.5
45°	6048.9	6024.5	6115.8	6118.8	6012.3	5872.4	5902.8	6100.6	6188.8	6067.1	6112.7
47.5°	6435.3	6447.4	6511.3	6642.2	6395.7	6249.7	6362.2	6681.7	6654.3	6608.7	6651.3
50°	6952.5	7007.3	7208.1	7162.5	6943.4	6763.9	7010.3	7311.6	7345.0	7177.7	7147.3
52.5°	7667.6	7752.8	7862.3	7898.8	7688.9	7625.0	7640.2	8014.4	7932.3	7771.0	7667.6
55°	8294.4	8333.9	8534.7	8835.9	8820.7	8513.4	8689.9	8829.9	8495.2	8163.5	8190.9
57.5°	8562.1	8580.4	9140.2	9742.7	10101.7	10171.7	9970.9	9499.3	8702.1	8063.1	8023.6
60°	7895.8	8069.2	8744.7	10104.7	11744.8	12554.1	11218.4	9575.3	8218.3	7442.4	7384.6
62.5°	6310.5	6319.7	7323.7	9386.7	12767.1	14887.8	11696.1	8860.3	6928.2	6048.9	5817.6
64°	4494.0	4579.2	5732.4	8309.6	12554.1	15837.2	11638.3	7926.2	5711.1	4463.6	4302.4
65°	3225.2	3343.9	4457.5	7214.2	12055.1	15724.6	11464.8	7122.9	4618.8	3407.8	3243.5
67.5°	1186.6	1235.3	1749.5	3608.6	8656.4	13400.0	9085.4	3915.9	2029.5	1445.3	1299.2
70°	550.7	553.8	648.1	1192.7	3785.1	8960.7	4335.8	1469.6	763.7	605.5	562.9
72.5°	404.7	413.8	453.4	550.7	1113.6	3794.2	1424.0	602.5	447.3	395.5	386.4
75°	328.6	334.7	346.9	398.6	514.2	1016.3	578.1	416.8	356.0	319.5	307.3
77.5°	252.5	252.5	279.9	304.3	340.8	474.7	383.4	331.7	289.1	252.5	243.4
80°	182.6	185.6	219.1	237.3	231.2	313.4	276.9	273.8	237.3	197.8	182.6
82.5°	106.5	115.6	158.2	170.4	164.3	185.6	200.8	213.0	185.6	136.9	124.7
85°	60.9	63.9	91.3	94.3	94.3	88.2	115.6	127.8	124.7	85.2	76.1
87.5°	18.3	18.3	24.3	24.3	27.4	30.4	45.6	54.8	60.9	42.6	39.6
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°	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6	3106.6
2.5°	3155.3	3109.6	3112.7	3124.8	3085.3	3100.5	3146.1	3112.7	3103.5	3085.3	3076.2
5°	3140.0	3188.7	3170.5	3176.6	3167.4	3124.8	3118.7	3146.1	3161.3	3134.0	3188.7
7.5°	3246.5	3225.2	3200.9	3210.0	3188.7	3225.2	3249.6	3194.8	3222.2	3207.0	3176.6
10°	3307.4	3267.8	3286.1	3280.0	3264.8	3301.3	3277.0	3270.9	3246.5	3213.1	3261.8
12.5°	3328.7	3374.3	3404.8	3353.0	3362.2	3343.9	3328.7	3328.7	3301.3	3292.2	3301.3
15°	3423.0	3462.6	3450.4	3490.0	3438.2	3456.5	3474.7	3429.1	3453.4	3386.5	3438.2
17.5°	3596.4	3563.0	3605.6	3553.9	3572.1	3608.6	3550.8	3550.8	3569.1	3532.6	3486.9
20°	3706.0	3690.8	3675.6	3678.6	3648.2	3681.6	3663.4	3654.3	3626.9	3639.0	3663.4
22.5°	3809.4	3788.1	3794.2	3803.4	3824.7	3809.4	3800.3	3809.4	3742.5	3803.4	3718.2
25°	3937.2	3995.0	3976.8	4016.3	3955.5	3995.0	3992.0	3934.2	3970.7	3946.4	3928.1
27.5°	4150.2	4119.8	4147.2	4098.5	4141.1	4144.1	4107.6	4205.0	4162.4	4156.3	4144.1
30°	4424.1	4402.8	4384.5	4357.1	4390.6	4363.2	4393.6	4402.8	4363.2	4332.8	4275.0
32.5°	4579.2	4637.0	4658.3	4591.4	4594.4	4609.7	4582.3	4554.9	4579.2	4588.4	4579.2
35°	4798.3	4853.1	4865.2	4813.5	4786.1	4862.2	4807.4	4898.7	4819.6	4822.7	4740.5
37.5°	5053.9	5069.1	5172.6	5114.7	5090.4	5053.9	5154.3	5142.1	5160.4	5014.3	5087.4
40°	5342.9	5397.7	5455.5	5309.5	5306.4	5339.9	5333.8	5403.8	5370.3	5349.0	5297.3
42.5°	5659.4	5775.0	5784.1	5686.8	5625.9	5619.8	5650.3	5805.4	5808.5	5668.5	5607.7
45°	6079.3	6207.1	6173.6	5985.0	5918.0	5908.9	6058.0	6124.9	6182.7	6128.0	6076.2
47.5°	6602.6	6687.8	6663.5	6490.0	6274.0	6334.9	6480.9	6690.9	6630.0	6557.0	6496.1
50°	7162.5	7262.9	7211.2	7037.7	6830.8	6830.8	7010.3	7278.1	7259.8	7116.8	7062.1
52.5°	7783.2	7929.2	8047.9	7801.4	7628.0	7655.4	7938.4	8035.7	7990.1	7889.7	7844.0
55°	8245.7	8525.6	8769.0	8781.2	8790.3	8787.3	8860.3	8957.7	8632.1	8470.8	8306.5
57.5°	8133.1	8662.5	9496.2	10062.1	10229.5	10317.7	10293.4	9843.1	9073.3	8543.9	8598.6
60°	7329.8	8193.9	9538.8	11355.3	12572.4	12450.7	12006.4	10226.5	8829.9	7935.3	7822.7
62.5°	5848.0	6888.6	8823.8	11720.4	15073.4	15036.9	12712.3	9341.0	7357.2	6225.3	6155.3
64°	4405.8	5501.2	7871.4	11626.1	15949.7	15986.3	12532.8	8251.8	5756.8	4405.8	4299.3
65°	3371.3	4387.5	6937.3	11431.4	15761.1	15782.4	12033.8	7126.0	4375.4	3127.9	3012.3
67.5°	1341.8	1868.2	3763.8	8668.6	13533.8	13476.0	8586.4	3447.4	1673.5	1089.3	1068.0
70°	572.0	712.0	1320.5	4107.6	9061.1	8893.8	3696.9	1119.7	620.7	520.3	517.3
72.5°	392.5	435.1	565.9	1268.8	3766.8	3678.6	1052.8	520.3	422.9	389.5	389.5
75°	316.4	346.9	410.8	532.5	998.0	961.5	496.0	383.4	337.7	313.4	310.4
77.5°	246.5	276.9	322.5	368.2	456.4	453.4	331.7	289.1	261.7	243.4	237.3
80°	194.7	225.2	255.6	261.7	298.2	292.1	225.2	228.2	213.0	176.5	173.4
82.5°	133.9	182.6	203.9	185.6	176.5	176.5	161.3	161.3	149.1	109.5	100.4
85°	82.2	121.7	127.8	109.5	82.2	82.2	88.2	85.2	79.1	57.8	54.8
87.5°	42.6	57.8	51.7	42.6	27.4	27.4	24.3	18.3	18.3	15.2	15.2
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)