

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: P479080

Luminaire Tested: **IFLD-L-SA7C-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479080
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

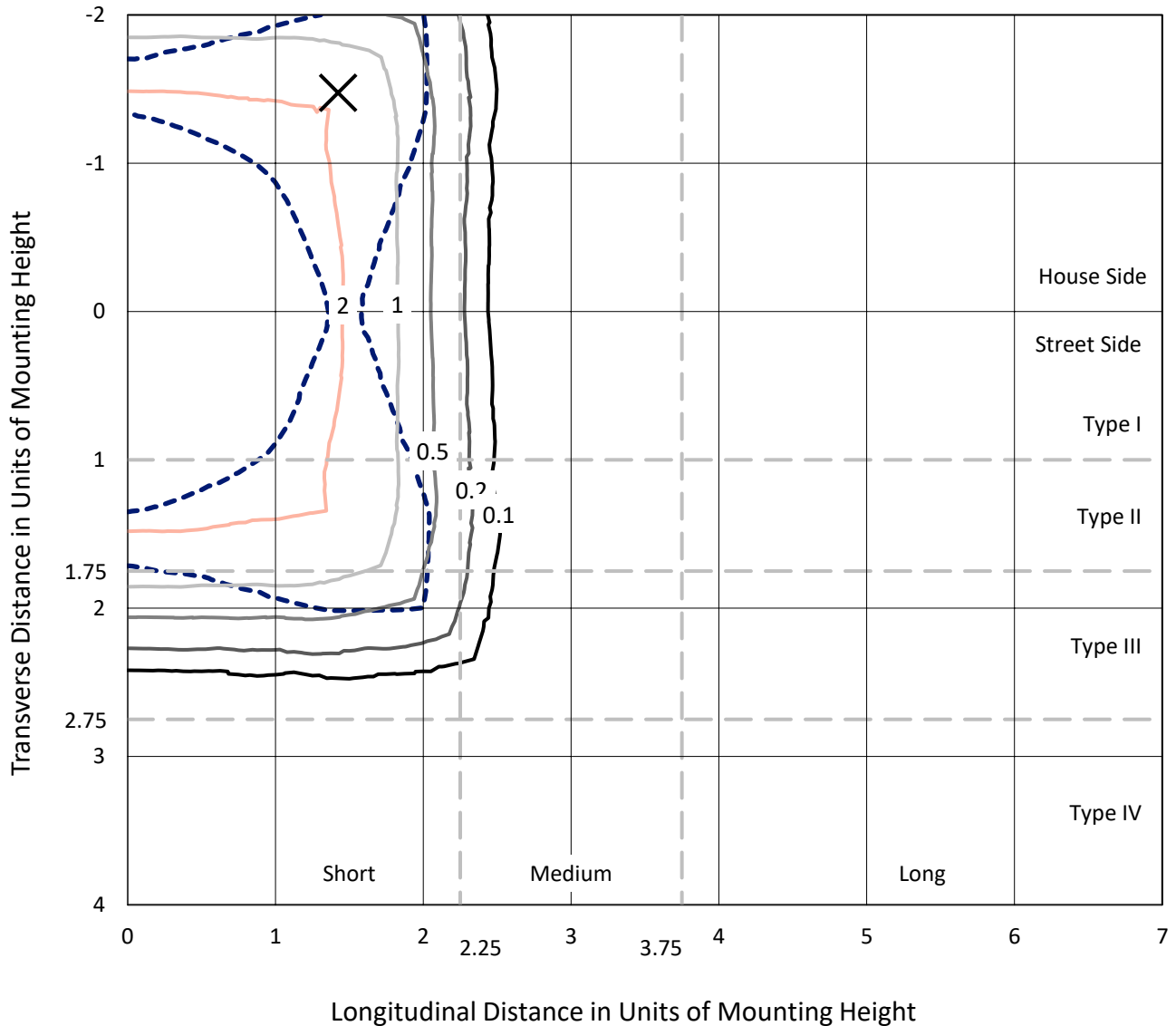
Lumens per Lamp: N/A
Luminaire Lumens: 32502 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 369
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

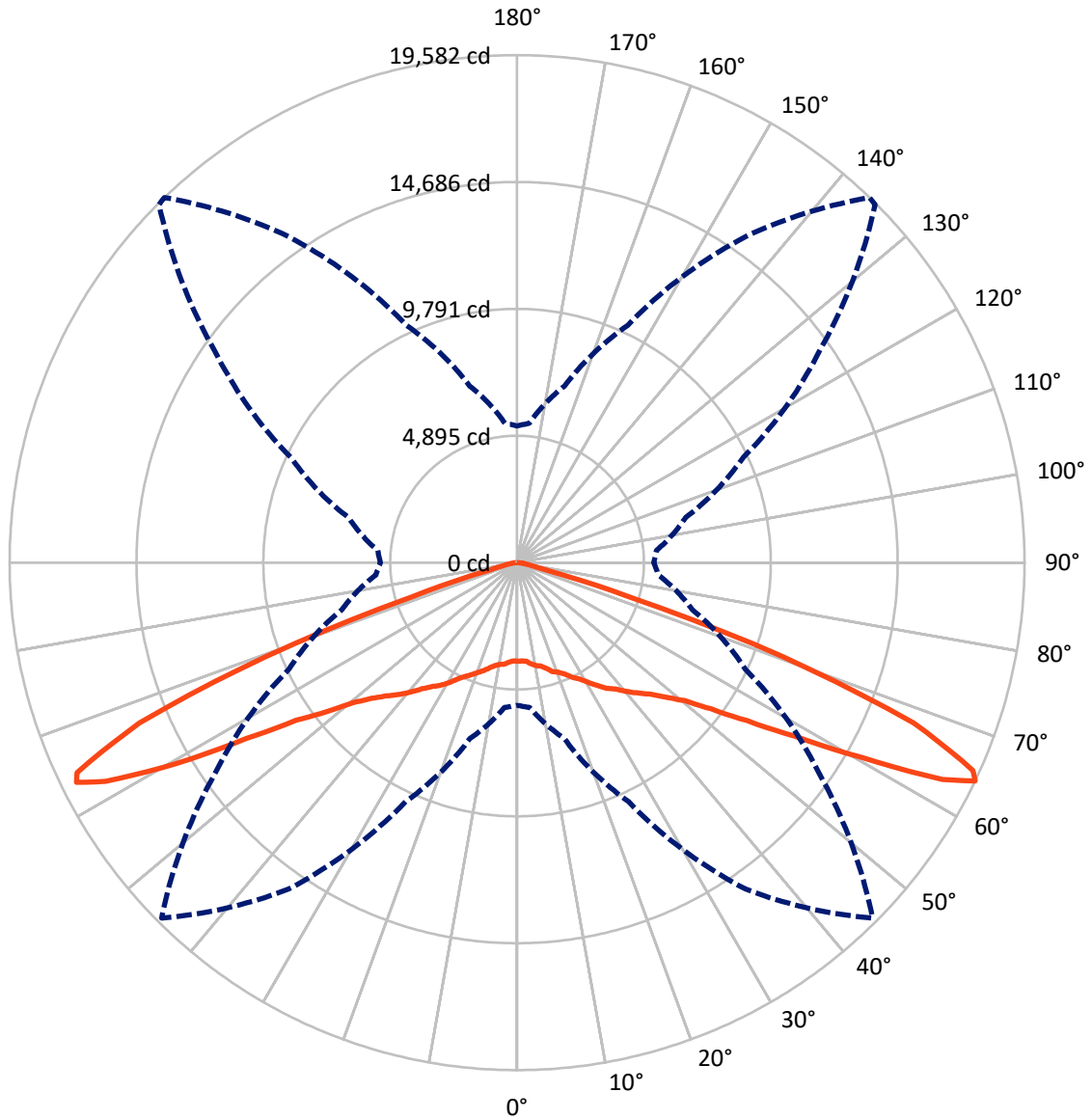
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	16266.5	0.0	16266.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16235.5	0.0	16235.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32502.0	0.0	32502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	1.2
10°-20°	1205.1	3.7
20°-30°	2264.8	7.0
30°-40°	3735.1	11.5
40°-50°	5841.5	18.0
50°-60°	9438.4	29.0
60°-70°	8498.7	26.1
70°-80°	1006.7	3.1
80°-90°	137.8	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°	32502.0	100.0
0°-180°	32502.0	100.0

Coefficient of Utilization



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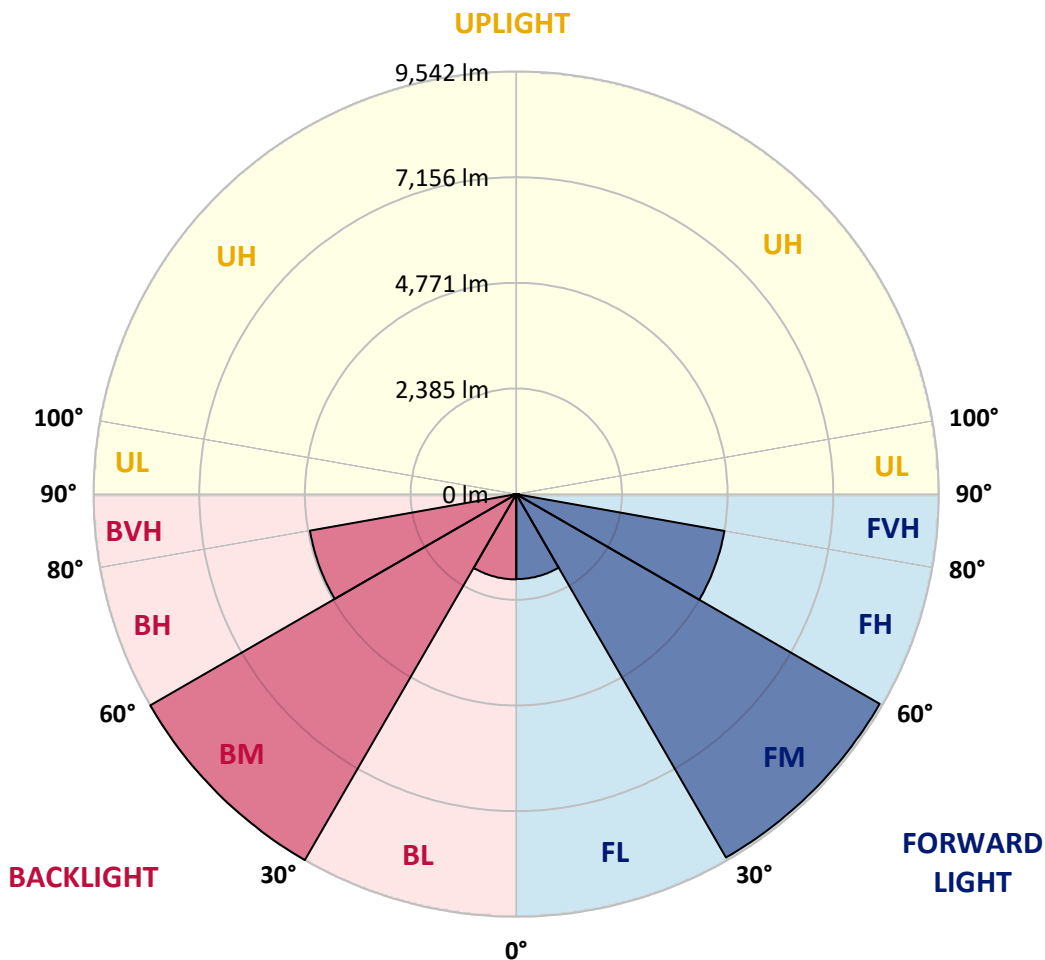
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.2	5.9			
FM (30°-60°)	9473.3	29.1			
FH (60°-80°)	4773.3	14.7			G2/5000
FVH (80°-90°)	70.7	0.2			G1/100
BL (0°-30°)	1925.6	5.9	B3/2500		
BM (30°-60°)	9541.7	29.4	B5		
BH (60°-80°)	4732.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	67.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3
2.5°	3760.6	3768.0	3835.1	3809.0	3831.4	3790.4	3820.2	3883.6	3809.0	3865.0	3883.6
5°	3801.6	3812.8	3812.8	3838.9	3853.8	3846.3	3865.0	3838.9	3909.7	3879.9	3924.6
7.5°	3950.7	3932.0	3902.2	3924.6	3928.3	3946.9	3965.6	3999.1	3987.9	3961.9	4006.6
10°	3976.8	3961.9	4006.6	4010.3	3991.7	3976.8	3995.4	3995.4	4028.9	4036.4	4036.4
12.5°	4021.5	4036.4	4032.7	4062.5	4066.2	4055.0	4084.8	4140.8	4125.8	4137.0	4110.9
15°	4192.9	4174.3	4170.6	4200.4	4248.8	4178.0	4230.2	4226.5	4211.6	4233.9	4174.3
17.5°	4342.0	4282.4	4308.5	4356.9	4338.3	4353.2	4420.3	4360.6	4375.6	4349.5	4330.8
20°	4472.5	4424.0	4427.7	4446.4	4446.4	4491.1	4517.2	4494.8	4479.9	4476.2	4483.6
22.5°	4617.8	4561.9	4565.6	4643.9	4670.0	4655.1	4636.5	4673.7	4681.2	4651.4	4684.9
25°	4725.9	4785.5	4804.2	4841.4	4785.5	4826.5	4811.6	4882.4	4927.2	4867.5	4908.5
27.5°	5009.2	4983.1	5031.5	5027.8	5072.5	5031.5	5057.6	5080.0	5098.6	5102.3	5083.7
30°	5262.6	5273.8	5225.3	5355.8	5251.4	5318.5	5363.2	5374.4	5396.8	5396.8	5340.9
32.5°	5530.9	5508.6	5586.8	5557.0	5538.4	5590.6	5542.1	5694.9	5605.5	5657.7	5594.3
35°	5832.8	5832.8	5862.6	5944.6	5832.8	5799.3	5888.7	5952.1	5952.1	5858.9	5881.3
37.5°	6172.0	6142.2	6179.4	6283.8	6198.1	6086.3	6250.3	6276.4	6257.7	6231.6	6186.9
40°	6410.5	6403.1	6477.6	6615.5	6492.5	6470.2	6500.0	6570.8	6593.2	6619.2	6559.6
42.5°	6813.0	6846.6	7062.8	7029.2	6928.6	6850.3	6842.9	7107.5	7044.1	6977.0	6943.5
45°	7409.4	7379.6	7491.4	7495.1	7364.7	7193.2	7230.5	7472.7	7580.8	7431.7	7487.6
47.5°	7882.7	7897.6	7975.9	8136.2	7834.3	7655.4	7793.3	8184.6	8151.1	8095.2	8147.3
50°	8516.3	8583.4	8829.4	8773.5	8505.1	8285.2	8587.1	8956.1	8997.1	8792.1	8754.8
52.5°	9392.2	9496.5	9630.7	9675.4	9418.3	9340.0	9358.6	9817.0	9716.4	9518.9	9392.2
55°	10159.9	10208.4	10454.4	10823.4	10804.7	10428.3	10644.5	10815.9	10405.9	9999.7	10033.2
57.5°	10487.9	10510.3	11196.1	11934.0	12373.8	12459.5	12213.5	11635.8	10659.4	9876.7	9828.2
60°	9671.7	9884.1	10711.5	12377.5	14386.4	15377.8	13741.6	11729.0	10066.8	9116.4	9045.6
62.5°	7729.9	7741.1	8971.0	11497.9	15638.7	18236.5	14326.8	10853.2	8486.5	7409.4	7126.1
64°	5504.9	5609.2	7021.8	10178.6	15377.8	19399.3	14256.0	9709.0	6995.7	5467.6	5270.0
65°	3950.7	4096.0	5460.1	8836.8	14766.6	19261.4	14043.5	8725.0	5657.7	4174.3	3973.0
67.5°	1453.5	1513.2	2143.1	4420.3	10603.5	16413.9	11129.0	4796.7	2485.9	1770.3	1591.5
70°	674.6	678.3	793.9	1461.0	4636.5	10976.2	5311.0	1800.2	935.5	741.7	689.5
72.5°	495.7	506.9	555.3	674.6	1364.1	4647.6	1744.3	738.0	547.9	484.5	473.3
75°	402.5	410.0	424.9	488.2	629.9	1244.8	708.1	510.6	436.1	391.3	376.4
77.5°	309.3	309.3	342.9	372.7	417.4	581.4	469.6	406.2	354.1	309.3	298.2
80°	223.6	227.4	268.3	290.7	283.3	383.9	339.2	335.4	290.7	242.3	223.6
82.5°	130.4	141.6	193.8	208.7	201.3	227.4	246.0	260.9	227.4	167.7	152.8
85°	74.5	78.3	111.8	115.5	115.5	108.1	141.6	156.5	152.8	104.4	93.2
87.5°	22.4	22.4	29.8	29.8	33.5	37.3	55.9	67.1	74.5	52.2	48.5
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°	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3	3805.3
2.5°	3865.0	3809.0	3812.8	3827.7	3779.2	3797.9	3853.8	3812.8	3801.6	3779.2	3768.0
5°	3846.3	3905.9	3883.6	3891.0	3879.9	3827.7	3820.2	3853.8	3872.4	3838.9	3905.9
7.5°	3976.8	3950.7	3920.9	3932.0	3905.9	3950.7	3980.5	3913.4	3946.9	3928.3	3891.0
10°	4051.3	4002.9	4025.2	4017.8	3999.1	4043.8	4014.0	4006.6	3976.8	3935.8	3995.4
12.5°	4077.4	4133.3	4170.6	4107.2	4118.4	4096.0	4077.4	4077.4	4043.8	4032.7	4043.8
15°	4192.9	4241.4	4226.5	4274.9	4211.6	4233.9	4256.3	4200.4	4230.2	4148.2	4211.6
17.5°	4405.4	4364.4	4416.6	4353.2	4375.6	4420.3	4349.5	4349.5	4371.8	4327.1	4271.2
20°	4539.5	4520.9	4502.3	4506.0	4468.7	4509.7	4487.4	4476.2	4442.6	4457.6	4487.4
22.5°	4666.3	4640.2	4647.6	4658.8	4684.9	4666.3	4655.1	4666.3	4584.3	4658.8	4554.5
25°	4822.8	4893.6	4871.3	4919.7	4845.2	4893.6	4889.9	4819.1	4863.8	4834.0	4811.6
27.5°	5083.7	5046.4	5080.0	5020.3	5072.5	5076.2	5031.5	5150.8	5098.6	5091.2	5076.2
30°	5419.1	5393.0	5370.7	5337.1	5378.1	5344.6	5381.9	5393.0	5344.6	5307.3	5236.5
32.5°	5609.2	5680.0	5706.1	5624.1	5627.8	5646.5	5612.9	5579.4	5609.2	5620.4	5609.2
35°	5877.6	5944.6	5959.6	5896.2	5862.6	5955.8	5888.7	6000.6	5903.6	5907.4	5806.7
37.5°	6190.6	6209.3	6336.0	6265.2	6235.4	6190.6	6313.6	6298.7	6321.1	6142.2	6231.6
40°	6544.7	6611.8	6682.6	6503.7	6500.0	6541.0	6533.5	6619.2	6578.2	6552.2	6488.8
42.5°	6932.3	7073.9	7085.1	6965.9	6891.3	6883.9	6921.1	7111.2	7114.9	6943.5	6869.0
45°	7446.6	7603.2	7562.2	7331.1	7249.1	7237.9	7420.6	7502.6	7573.4	7506.3	7442.9
47.5°	8087.7	8192.1	8162.2	7949.8	7685.2	7759.7	7938.6	8195.8	8121.2	8031.8	7957.3
50°	8773.5	8896.5	8833.1	8620.7	8367.2	8367.2	8587.1	8915.1	8892.7	8717.6	8650.5
52.5°	9533.8	9712.7	9858.0	9556.2	9343.7	9377.3	9723.9	9843.1	9787.2	9664.2	9608.3
55°	10100.3	10443.2	10741.4	10756.3	10767.4	10763.7	10853.2	10972.4	10573.6	10376.1	10174.8
57.5°	9962.4	10610.9	11632.1	12325.4	12530.3	12638.4	12608.6	12057.0	11114.1	10465.6	10532.6
60°	8978.5	10036.9	11684.3	13909.4	15400.2	15251.1	14706.9	12526.6	10815.9	9720.1	9582.2
62.5°	7163.4	8438.0	10808.4	14356.6	18463.8	18419.1	15571.6	11442.0	9012.0	7625.5	7539.8
64°	5396.8	6738.5	9641.9	14241.1	19537.2	19581.9	15351.7	10107.8	7051.6	5396.8	5266.3
65°	4129.6	5374.4	8497.7	14002.5	19306.1	19332.2	14740.5	8728.8	5359.5	3831.4	3689.8
67.5°	1643.6	2288.4	4610.4	10618.4	16577.9	16507.1	10517.7	4222.7	2049.9	1334.3	1308.2
70°	700.7	872.1	1617.5	5031.5	11099.2	10894.2	4528.4	1371.6	760.3	637.3	633.6
72.5°	480.8	533.0	693.2	1554.2	4614.1	4506.0	1289.6	637.3	518.1	477.1	477.1
75°	387.6	424.9	503.2	652.2	1222.5	1177.7	607.5	469.6	413.7	383.9	380.2
77.5°	301.9	339.2	395.1	451.0	559.1	555.3	406.2	354.1	320.5	298.2	290.7
80°	238.5	275.8	313.1	320.5	365.3	357.8	275.8	279.5	260.9	216.2	212.4
82.5°	164.0	223.6	249.7	227.4	216.2	216.2	197.5	197.5	182.6	134.2	123.0
85°	100.6	149.1	156.5	134.2	100.6	100.6	108.1	104.4	96.9	70.8	67.1
87.5°	52.2	70.8	63.4	52.2	33.5	33.5	29.8	22.4	22.4	18.6	18.6
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)