

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: P479343

Luminaire Tested: **IFLD-S-SA6C-740-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479343
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

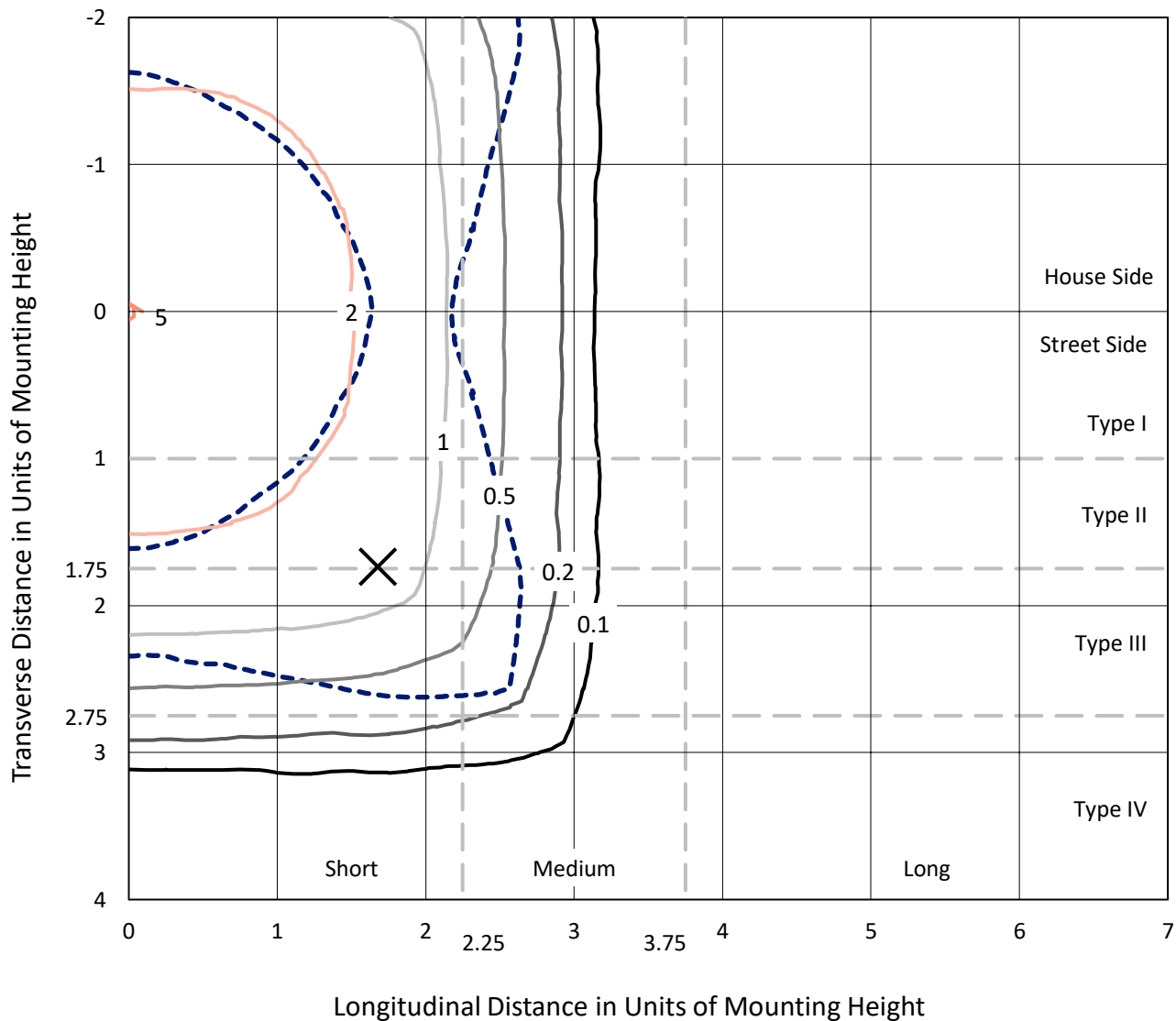
Lumens per Lamp: N/A
Luminaire Lumens: 41942.8 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (A_{in}): 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

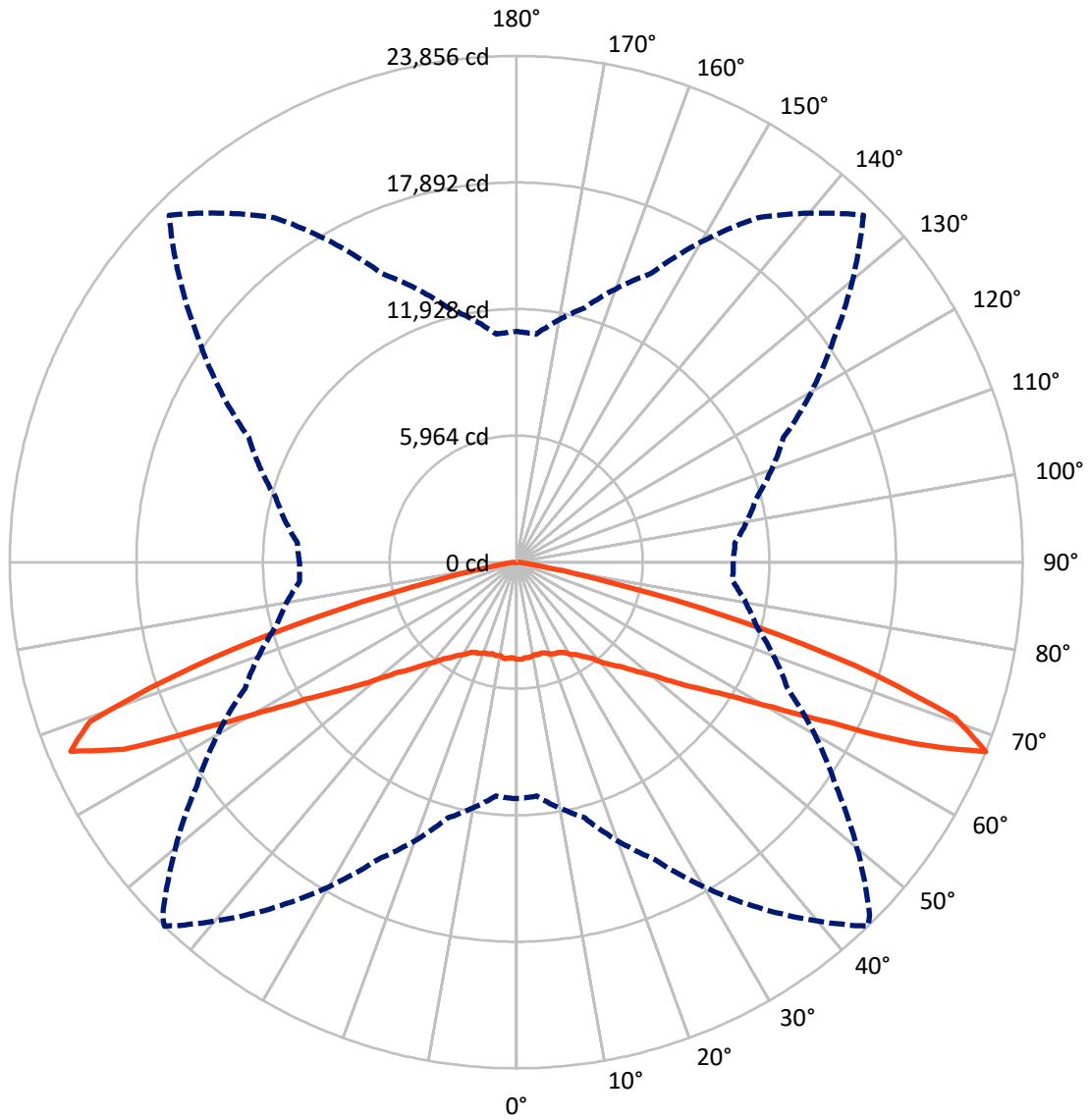
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	20917.7	0.0	20917.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21025.1	0.0	21025.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	41942.8	0.0	41942.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.5	1.0
10°-20°	1266.6	3.0
20°-30°	2153.9	5.1
30°-40°	3415.1	8.1
40°-50°	5568.7	13.3
50°-60°	9510.6	22.7
60°-70°	14465.4	34.5
70°-80°	4875.7	11.6
80°-90°	253.2	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°	41942.8	100.0
0°-180°	41942.8	100.0

Coefficient of Utilization

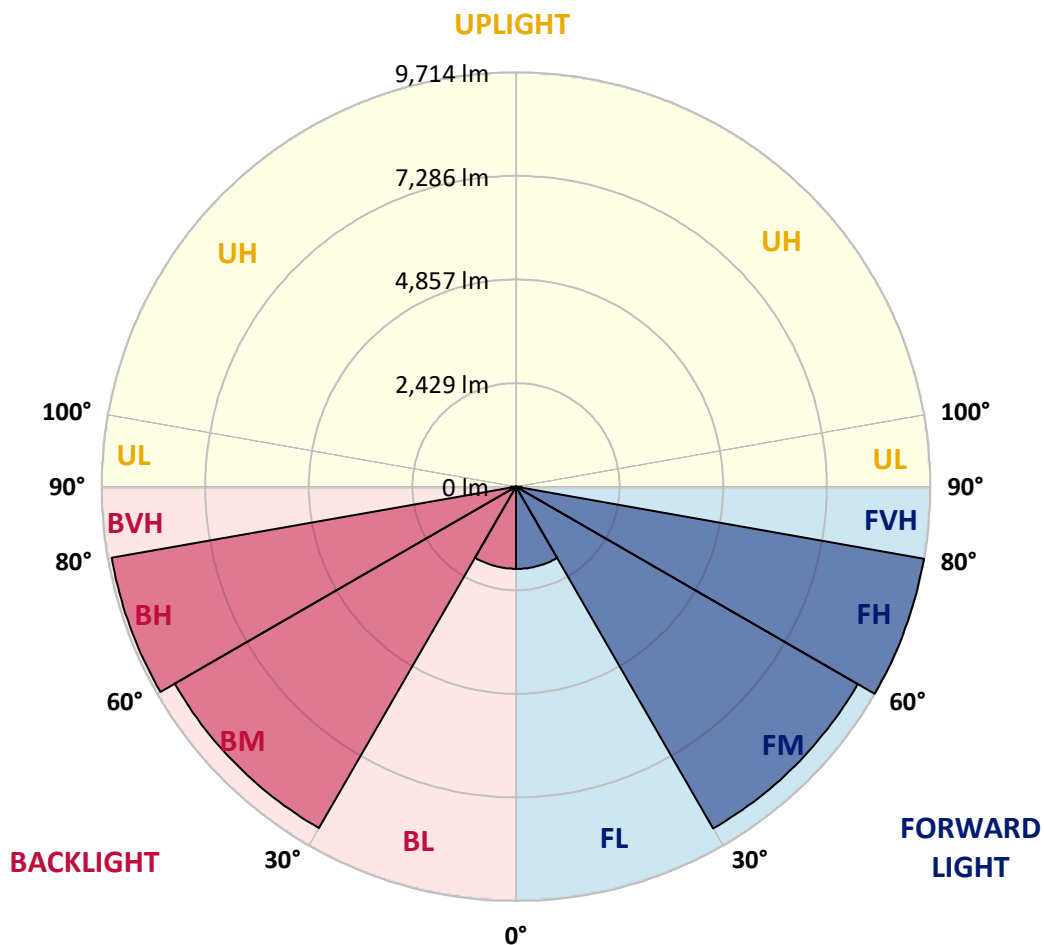


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.0	4.6			
FM (30°-60°)	9252.2	22.1			
FH (60°-80°)	9714.4	23.2			G4/12000
FVH (80°-90°)	129.5	0.3			G2/225
BL (0°-30°)	1925.1	4.6	B3/2500		
BM (30°-60°)	9242.2	22.0	B5		
BH (60°-80°)	9626.8	23.0	B5		G4/12000
BVH (80°-90°)	123.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5
2.5°	4476.2	4528.9	4567.2	4562.4	4576.7	4591.1	4571.9	4600.7	4581.5	4615.0	4634.2
5°	4562.4	4548.0	4552.8	4524.1	4591.1	4514.5	4514.5	4552.8	4600.7	4543.2	4576.7
7.5°	4509.7	4500.1	4476.2	4519.3	4533.7	4533.7	4571.9	4500.1	4581.5	4600.7	4605.5
10°	4452.3	4399.6	4471.4	4514.5	4524.1	4447.5	4481.0	4500.1	4476.2	4500.1	4514.5
12.5°	4404.4	4433.1	4433.1	4433.1	4418.8	4471.4	4504.9	4500.1	4452.3	4495.4	4418.8
15°	4399.6	4385.2	4428.3	4466.6	4442.7	4452.3	4466.6	4509.7	4418.8	4437.9	4437.9
17.5°	4394.8	4414.0	4428.3	4423.5	4504.9	4504.9	4490.6	4461.8	4533.7	4495.4	4442.7
20°	4414.0	4399.6	4437.9	4452.3	4509.7	4624.6	4581.5	4557.6	4519.3	4471.4	4471.4
22.5°	4437.9	4428.3	4481.0	4543.2	4653.3	4682.1	4677.3	4648.5	4581.5	4524.1	4514.5
25°	4524.1	4437.9	4495.4	4615.0	4653.3	4710.8	4749.1	4710.8	4619.8	4634.2	4548.0
27.5°	4653.3	4639.0	4715.6	4797.0	4763.4	4816.1	4782.6	4811.3	4816.1	4744.3	4658.1
30°	4806.5	4763.4	4811.3	4969.3	4983.7	5041.1	4983.7	4907.1	4931.0	4868.8	4825.7
32.5°	5026.8	5012.4	5103.3	5208.7	5227.8	5199.1	5170.4	5213.5	5112.9	5065.0	4988.5
35°	5170.4	5232.6	5342.7	5424.1	5486.3	5457.6	5472.0	5428.9	5452.8	5352.3	5318.8
37.5°	5596.4	5572.5	5596.4	5735.3	5749.6	5735.3	5749.6	5797.5	5764.0	5677.8	5591.7
40°	5998.6	5960.3	6017.7	6175.7	6166.1	6214.0	6118.3	6170.9	6170.9	6008.2	5974.7
42.5°	6300.2	6429.5	6496.5	6625.7	6673.6	6630.5	6611.4	6620.9	6726.3	6534.8	6463.0
45°	6922.6	6917.8	7118.8	7190.6	7056.6	7047.0	7008.7	7123.6	7195.4	7085.3	7056.6
47.5°	7597.6	7631.1	7746.0	7774.7	7856.1	7707.7	7707.7	7722.0	7975.8	7717.3	7583.2
50°	8205.6	8248.7	8478.5	8703.5	8550.3	8392.3	8454.5	8531.1	8669.9	8425.8	8310.9
52.5°	8942.8	9177.4	9330.6	9450.3	9560.4	9450.3	9306.7	9392.8	9665.7	9340.2	9196.6
55°	10005.6	10192.3	10336.0	10556.2	10647.1	10498.7	10484.4	10474.8	10628.0	10283.3	10087.0
57.5°	11192.9	11116.3	11346.1	11686.0	12016.3	11872.7	11829.6	11839.2	11877.5	11389.2	11240.8
60°	12667.4	12753.6	13026.5	13323.3	13672.8	13873.8	13591.4	13428.6	13462.1	12796.7	12566.9
62.5°	13510.0	13701.5	14319.1	15338.8	16042.5	16669.7	16712.7	15654.7	14946.2	13653.6	12677.0
65°	13103.1	13074.3	14237.7	16123.9	18790.5	20614.5	20341.6	17775.5	15300.5	13246.7	11934.9
67.5°	11145.0	11068.4	12475.9	15468.0	19872.4	23855.5	23544.3	18374.0	14103.6	11719.5	10235.4
70°	7181.1	7161.9	8689.1	11791.3	17742.0	21902.3	22017.2	16688.8	11480.1	8583.8	7114.0
72.5°	2609.1	2767.1	3652.8	6338.5	12049.8	16755.8	16827.6	12356.2	6601.8	3968.7	2925.1
75°	962.3	991.0	1153.8	2058.6	5491.1	10288.1	10556.2	5993.8	2345.8	1292.6	1053.2
77.5°	555.3	560.1	617.6	766.0	1627.7	4016.6	4179.4	1819.2	909.6	689.4	636.7
80°	378.2	373.4	435.7	497.9	651.1	1139.4	1211.2	761.2	574.5	478.7	402.1
82.5°	220.2	234.6	320.8	354.3	397.4	502.7	512.2	474.0	430.9	354.3	263.3
85°	134.0	110.1	177.1	196.3	229.8	225.0	225.0	258.5	277.7	248.9	148.4
87.5°	33.5	33.5	43.1	47.9	62.2	47.9	52.7	100.5	134.0	124.5	76.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5	4581.5
2.5°	4591.1	4576.7	4586.3	4639.0	4605.5	4504.9	4528.9	4581.5	4538.4	4514.5	4509.7
5°	4571.9	4600.7	4567.2	4576.7	4610.2	4528.9	4543.2	4610.2	4581.5	4591.1	4538.4
7.5°	4576.7	4591.1	4562.4	4519.3	4519.3	4586.3	4548.0	4557.6	4514.5	4586.3	4490.6
10°	4548.0	4509.7	4476.2	4500.1	4490.6	4471.4	4457.1	4485.8	4442.7	4504.9	4437.9
12.5°	4461.8	4471.4	4461.8	4452.3	4471.4	4519.3	4442.7	4452.3	4385.2	4394.8	4428.3
15°	4428.3	4457.1	4447.5	4500.1	4524.1	4452.3	4509.7	4452.3	4399.6	4370.9	4423.5
17.5°	4442.7	4485.8	4471.4	4509.7	4466.6	4519.3	4528.9	4504.9	4442.7	4418.8	4442.7
20°	4457.1	4442.7	4461.8	4528.9	4591.1	4538.4	4538.4	4524.1	4466.6	4433.1	4433.1
22.5°	4490.6	4466.6	4495.4	4548.0	4567.2	4648.5	4576.7	4543.2	4447.5	4361.3	4442.7
25°	4557.6	4571.9	4591.1	4571.9	4677.3	4667.7	4658.1	4634.2	4485.8	4490.6	4476.2
27.5°	4686.8	4605.5	4629.4	4744.3	4758.7	4797.0	4749.1	4792.2	4634.2	4639.0	4543.2
30°	4844.8	4758.7	4835.3	4935.8	4931.0	5002.8	4978.9	4988.5	4878.3	4816.1	4686.8
32.5°	5017.2	5007.6	5055.5	5117.7	5141.6	5179.9	5175.2	5175.2	5108.1	4945.4	4969.3
35°	5208.7	5275.7	5333.1	5400.2	5409.7	5457.6	5390.6	5400.2	5333.1	5213.5	5251.8
37.5°	5586.9	5582.1	5644.3	5725.7	5735.3	5697.0	5749.6	5725.7	5634.7	5553.4	5491.1
40°	6027.3	5931.6	5989.0	6180.5	6194.9	6127.8	6123.1	6118.3	6051.3	5874.1	5835.8
42.5°	6410.3	6534.8	6525.2	6587.4	6544.4	6510.8	6630.5	6563.5	6510.8	6324.1	6290.6
45°	6903.4	6941.7	7066.2	7267.2	7061.4	7061.4	7142.8	7090.1	7061.4	6922.6	6793.3
47.5°	7516.2	7549.7	7798.6	7813.0	7679.0	7588.0	7841.7	7851.3	7731.6	7626.3	7468.3
50°	8234.3	8248.7	8473.7	8703.5	8555.1	8382.7	8641.2	8741.8	8473.7	8330.0	8133.8
52.5°	9024.2	8981.1	9167.8	9598.7	9455.1	9402.4	9680.1	9704.0	9340.2	9115.2	9167.8
55°	9933.8	9876.4	10383.8	10675.9	10584.9	10489.2	10613.6	10671.1	10379.0	10010.4	10139.7
57.5°	11111.5	11140.2	11394.0	11681.2	11829.6	11853.6	11911.0	11853.6	11556.7	11183.3	11063.6
60°	12289.2	12375.4	12868.5	13409.5	13457.3	13878.6	13802.0	13514.8	13093.5	12562.1	12586.0
62.5°	12724.9	12653.0	13447.8	14769.1	15894.1	16664.9	16325.0	15305.3	14328.6	13361.6	13433.4
65°	11848.8	12025.9	13107.9	15176.0	17617.6	20667.1	18857.5	16037.7	14065.3	12815.8	12677.0
67.5°	10211.5	10345.5	11719.5	13902.6	18235.1	23127.8	19815.0	15003.7	12404.1	10786.0	10872.1
70°	7114.0	7181.1	8526.3	11389.2	16535.6	21825.7	17876.1	11523.2	8564.6	6826.8	6922.6
72.5°	2862.9	3025.6	3911.3	6860.3	12207.8	16583.5	12035.5	6046.5	3552.2	2642.6	2398.5
75°	1058.0	1062.8	1249.5	2360.2	5797.5	10422.1	5428.9	1943.7	1134.6	928.8	885.7
77.5°	612.8	608.0	651.1	852.2	1680.4	4069.3	1541.5	761.2	617.6	555.3	531.4
80°	383.0	378.2	445.2	564.9	737.3	1115.5	651.1	474.0	416.5	359.1	359.1
82.5°	244.2	248.9	349.5	416.5	450.0	493.1	378.2	335.1	311.2	205.9	201.1
85°	158.0	143.6	244.2	277.7	248.9	220.2	210.6	177.1	162.8	100.5	110.1
87.5°	71.8	76.6	124.5	138.8	91.0	52.7	52.7	38.3	38.3	23.9	23.9
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)