

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: P478875

Luminaire Tested: **IFLD-S-SA6C-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478875
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

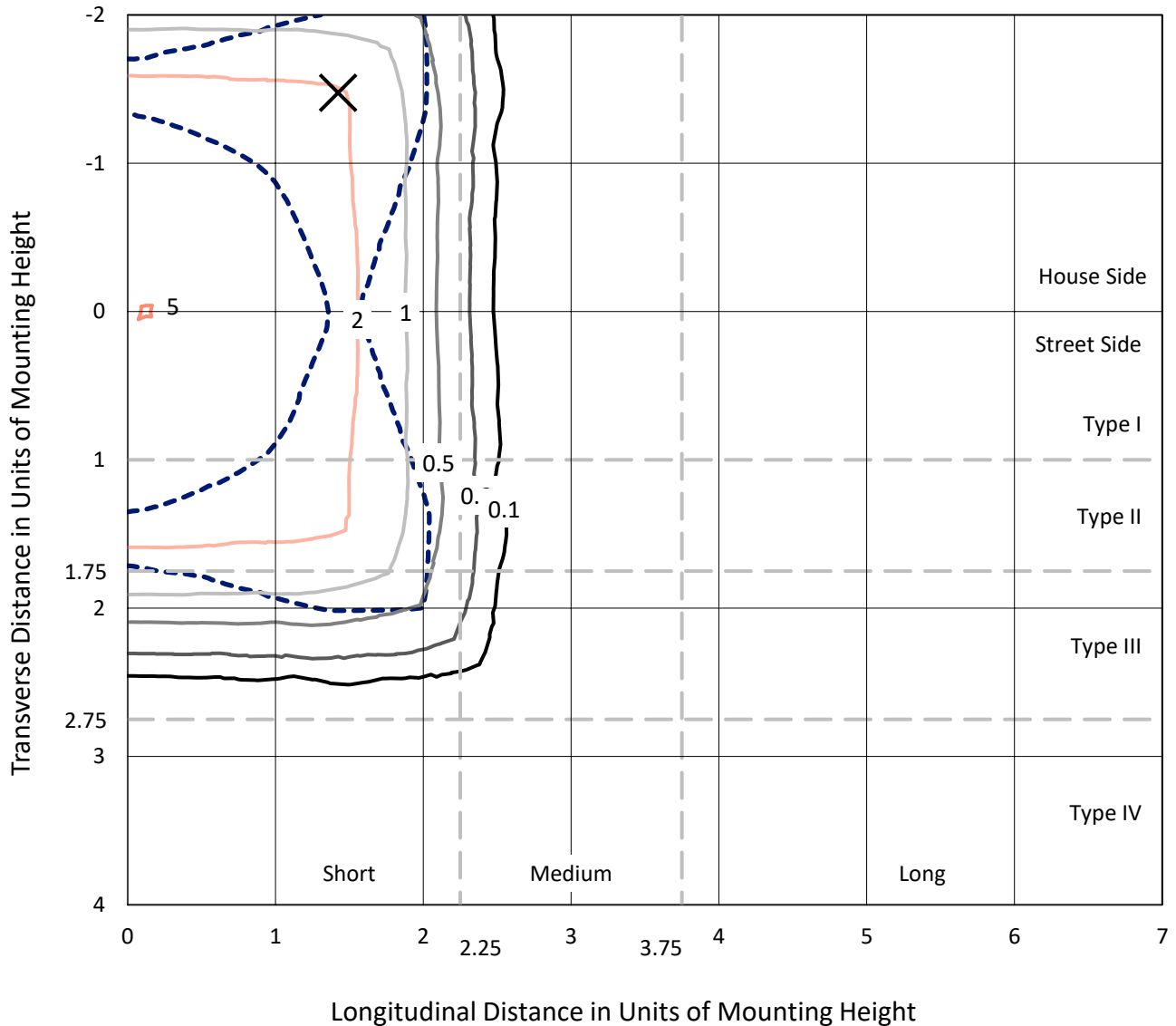
Lumens per Lamp: N/A
Luminaire Lumens: 37737.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5
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

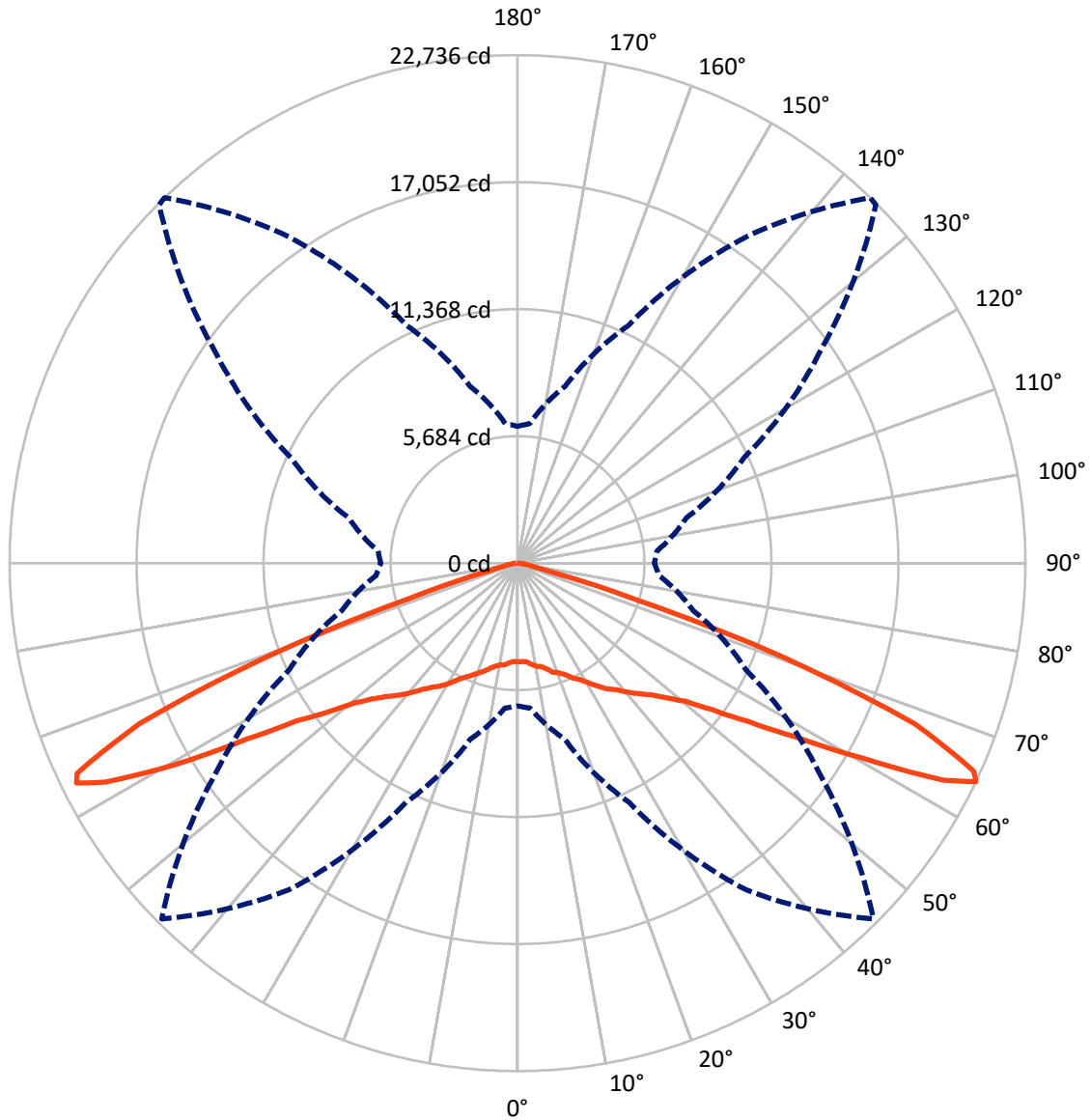
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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	18886.8	0.0	18886.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18850.9	0.0	18850.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	37737.7	0.0	37737.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.1	1.2
10°-20°	1399.2	3.7
20°-30°	2629.7	7.0
30°-40°	4336.8	11.5
40°-50°	6782.5	18.0
50°-60°	10958.8	29.0
60°-70°	9867.7	26.1
70°-80°	1168.9	3.1
80°-90°	160.0	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°	37737.7	100.0
0°-180°	37737.7	100.0

Coefficient of Utilization



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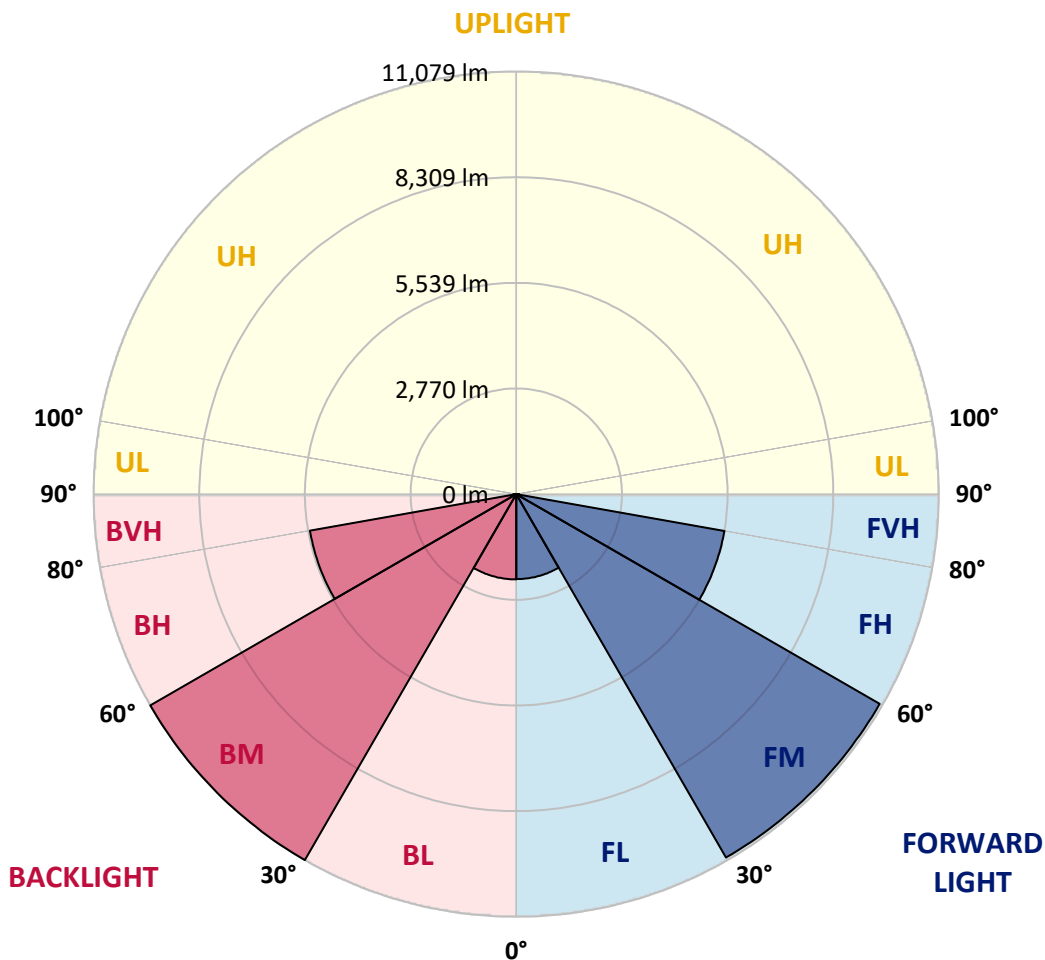
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2227.2	5.9			
FM (30°-60°)	10999.4	29.1			
FH (60°-80°)	5542.2	14.7			G3/7500
FVH (80°-90°)	82.1	0.2			G1/100
BL (0°-30°)	2235.8	5.9	B3/2500		
BM (30°-60°)	11078.7	29.4	B5		
BH (60°-80°)	5494.4	14.6	B5		G3/7500
BVH (80°-90°)	77.9	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3
2.5°	4366.4	4375.0	4452.9	4422.6	4448.6	4401.0	4435.6	4509.2	4422.6	4487.5	4509.2
5°	4414.0	4427.0	4427.0	4457.3	4474.6	4465.9	4487.5	4457.3	4539.5	4504.9	4556.8
7.5°	4587.1	4565.4	4530.8	4556.8	4561.1	4582.8	4604.4	4643.3	4630.4	4600.1	4652.0
10°	4617.4	4600.1	4652.0	4656.3	4634.7	4617.4	4639.0	4639.0	4678.0	4686.6	4686.6
12.5°	4669.3	4686.6	4682.3	4716.9	4721.2	4708.2	4742.9	4807.8	4790.5	4803.5	4773.2
15°	4868.4	4846.7	4842.4	4877.0	4933.3	4851.1	4911.6	4907.3	4890.0	4916.0	4846.7
17.5°	5041.5	4972.2	5002.5	5058.8	5037.1	5054.4	5132.3	5063.1	5080.4	5050.1	5028.5
20°	5192.9	5136.7	5141.0	5162.6	5162.6	5214.6	5244.8	5218.9	5201.6	5197.2	5205.9
22.5°	5361.7	5296.8	5301.1	5392.0	5422.3	5405.0	5383.3	5426.6	5435.3	5400.6	5439.6
25°	5487.2	5556.4	5578.1	5621.3	5556.4	5604.0	5586.7	5668.9	5720.9	5651.6	5699.2
27.5°	5816.1	5785.8	5842.0	5837.7	5889.6	5842.0	5872.3	5898.3	5919.9	5924.3	5902.6
30°	6110.3	6123.3	6067.1	6218.5	6097.4	6175.2	6227.2	6240.2	6266.1	6266.1	6201.2
32.5°	6421.9	6395.9	6486.8	6452.2	6430.6	6491.1	6434.9	6612.3	6508.5	6569.0	6495.5
35°	6772.4	6772.4	6807.1	6902.3	6772.4	6733.5	6837.3	6910.9	6910.9	6802.7	6828.7
37.5°	7166.2	7131.6	7174.9	7296.1	7196.5	7066.7	7257.1	7287.4	7265.8	7235.5	7183.5
40°	7443.2	7434.5	7521.1	7681.2	7538.4	7512.4	7547.0	7629.3	7655.2	7685.5	7616.3
42.5°	7910.5	7949.5	8200.5	8161.5	8044.7	7953.8	7945.2	8252.4	8178.8	8101.0	8062.0
45°	8602.9	8568.3	8698.1	8702.5	8551.0	8351.9	8395.2	8676.5	8802.0	8628.9	8693.8
47.5°	9152.5	9169.8	9260.7	9446.8	9096.3	8888.5	9048.7	9503.0	9464.1	9399.2	9459.8
50°	9888.2	9966.1	10251.7	10186.8	9875.2	9619.9	9970.4	10398.8	10446.4	10208.4	10165.1
52.5°	10905.1	11026.3	11182.1	11234.0	10935.4	10844.5	10866.2	11398.5	11281.6	11052.3	10905.1
55°	11796.6	11852.8	12138.4	12566.9	12545.2	12108.2	12359.1	12558.2	12082.2	11610.5	11649.4
57.5°	12177.4	12203.4	12999.6	13856.4	14367.1	14466.6	14181.0	13510.2	12376.5	11467.7	11411.4
60°	11229.7	11476.4	12437.0	14371.4	16703.9	17855.0	15955.2	13618.4	11688.4	10584.9	10502.7
62.5°	8975.1	8988.1	10416.1	13350.1	18157.9	21174.1	16634.7	12601.5	9853.6	8602.9	8274.1
64°	6391.6	6512.8	8152.9	11818.2	17855.0	22524.3	16552.4	11273.0	8122.6	6348.3	6119.0
65°	4587.1	4755.8	6339.7	10260.3	17145.3	22364.2	16305.8	10130.5	6569.0	4846.7	4613.0
67.5°	1687.7	1756.9	2488.3	5132.3	12311.5	19058.0	12921.7	5569.4	2886.4	2055.5	1847.8
70°	783.3	787.6	921.7	1696.4	5383.3	12744.3	6166.6	2090.2	1086.2	861.2	800.6
72.5°	575.5	588.5	644.8	783.3	1583.8	5396.3	2025.2	856.8	636.1	562.6	549.6
75°	467.4	476.0	493.3	566.9	731.3	1445.4	822.2	592.9	506.3	454.4	437.1
77.5°	359.2	359.2	398.1	432.7	484.7	675.1	545.3	471.7	411.1	359.2	346.2
80°	259.6	264.0	311.6	337.5	328.9	445.7	393.8	389.5	337.5	281.3	259.6
82.5°	151.5	164.4	225.0	242.3	233.7	264.0	285.6	302.9	264.0	194.7	177.4
85°	86.5	90.9	129.8	134.2	134.2	125.5	164.4	181.8	177.4	121.2	108.2
87.5°	26.0	26.0	34.6	34.6	38.9	43.3	64.9	77.9	86.5	60.6	56.3
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°	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3	4418.3
2.5°	4487.5	4422.6	4427.0	4444.3	4388.0	4409.7	4474.6	4427.0	4414.0	4388.0	4375.0
5°	4465.9	4535.1	4509.2	4517.8	4504.9	4444.3	4435.6	4474.6	4496.2	4457.3	4535.1
7.5°	4617.4	4587.1	4552.5	4565.4	4535.1	4587.1	4621.7	4543.8	4582.8	4561.1	4517.8
10°	4703.9	4647.7	4673.6	4665.0	4643.3	4695.3	4660.6	4652.0	4617.4	4569.8	4639.0
12.5°	4734.2	4799.1	4842.4	4768.8	4781.8	4755.8	4734.2	4734.2	4695.3	4682.3	4695.3
15°	4868.4	4924.6	4907.3	4963.6	4890.0	4916.0	4941.9	4877.0	4911.6	4816.4	4890.0
17.5°	5115.0	5067.4	5128.0	5054.4	5080.4	5132.3	5050.1	5050.1	5076.1	5024.1	4959.2
20°	5270.8	5249.2	5227.5	5231.9	5188.6	5236.2	5210.2	5197.2	5158.3	5175.6	5210.2
22.5°	5417.9	5387.7	5396.3	5409.3	5439.6	5417.9	5405.0	5417.9	5322.7	5409.3	5288.1
25°	5599.7	5681.9	5656.0	5712.2	5625.7	5681.9	5677.6	5595.4	5647.3	5612.7	5586.7
27.5°	5902.6	5859.3	5898.3	5829.1	5889.6	5894.0	5842.0	5980.5	5919.9	5911.3	5894.0
30°	6292.1	6261.8	6235.8	6196.9	6244.5	6205.5	6248.8	6261.8	6205.5	6162.3	6080.0
32.5°	6512.8	6595.0	6625.3	6530.1	6534.4	6556.1	6517.1	6478.2	6512.8	6525.8	6512.8
35°	6824.4	6902.3	6919.6	6846.0	6807.1	6915.2	6837.3	6967.2	6854.7	6859.0	6742.1
37.5°	7187.9	7209.5	7356.6	7274.4	7239.8	7187.9	7330.7	7313.4	7339.3	7131.6	7235.5
40°	7599.0	7676.9	7759.1	7551.4	7547.0	7594.6	7586.0	7685.5	7637.9	7607.6	7534.1
42.5°	8049.0	8213.5	8226.5	8088.0	8001.4	7992.8	8036.0	8256.7	8261.1	8062.0	7975.5
45°	8646.2	8828.0	8780.4	8512.1	8416.9	8403.9	8615.9	8711.1	8793.3	8715.5	8641.9
47.5°	9390.5	9511.7	9477.1	9230.4	8923.2	9009.7	9217.4	9516.0	9429.5	9325.6	9239.1
50°	10186.8	10329.6	10256.0	10009.4	9715.1	9715.1	9970.4	10351.2	10325.3	10121.9	10044.0
52.5°	11069.6	11277.3	11446.1	11095.5	10848.9	10887.8	11290.3	11428.8	11363.8	11221.0	11156.1
55°	11727.3	12125.5	12471.7	12489.0	12502.0	12497.6	12601.5	12740.0	12276.9	12047.6	11813.9
57.5°	11567.2	12320.2	13505.9	14310.8	14548.8	14674.3	14639.7	13999.2	12904.4	12151.4	12229.3
60°	10424.8	11653.8	13566.5	16150.0	17881.0	17707.9	17076.1	14544.5	12558.2	11285.9	11125.8
62.5°	8317.3	9797.3	12549.6	16669.3	21438.1	21386.2	18080.0	13285.2	10463.7	8853.9	8754.4
64°	6266.1	7824.0	11195.1	16535.1	22684.4	22736.3	17824.7	11736.0	8187.5	6266.1	6114.7
65°	4794.8	6240.2	9866.5	16258.2	22416.1	22446.4	17115.0	10134.8	6222.8	4448.6	4284.2
67.5°	1908.4	2657.0	5353.0	12328.9	19248.4	19166.2	12212.0	4903.0	2380.1	1549.2	1518.9
70°	813.6	1012.6	1878.1	5842.0	12887.1	12649.1	5257.8	1592.5	882.8	740.0	735.7
72.5°	558.2	618.8	804.9	1804.5	5357.4	5231.9	1497.3	740.0	601.5	553.9	553.9
75°	450.1	493.3	584.2	757.3	1419.4	1367.5	705.4	545.3	480.3	445.7	441.4
77.5°	350.5	393.8	458.7	523.6	649.1	644.8	471.7	411.1	372.2	346.2	337.5
80°	277.0	320.2	363.5	372.2	424.1	415.4	320.2	324.6	302.9	251.0	246.7
82.5°	190.4	259.6	289.9	264.0	251.0	251.0	229.4	229.4	212.0	155.8	142.8
85°	116.8	173.1	181.8	155.8	116.8	116.8	125.5	121.2	112.5	82.2	77.9
87.5°	60.6	82.2	73.6	60.6	38.9	38.9	34.6	26.0	26.0	21.6	21.6
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)