

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: P479072

Luminaire Tested: **IFLD-S-SA6E-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479072  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

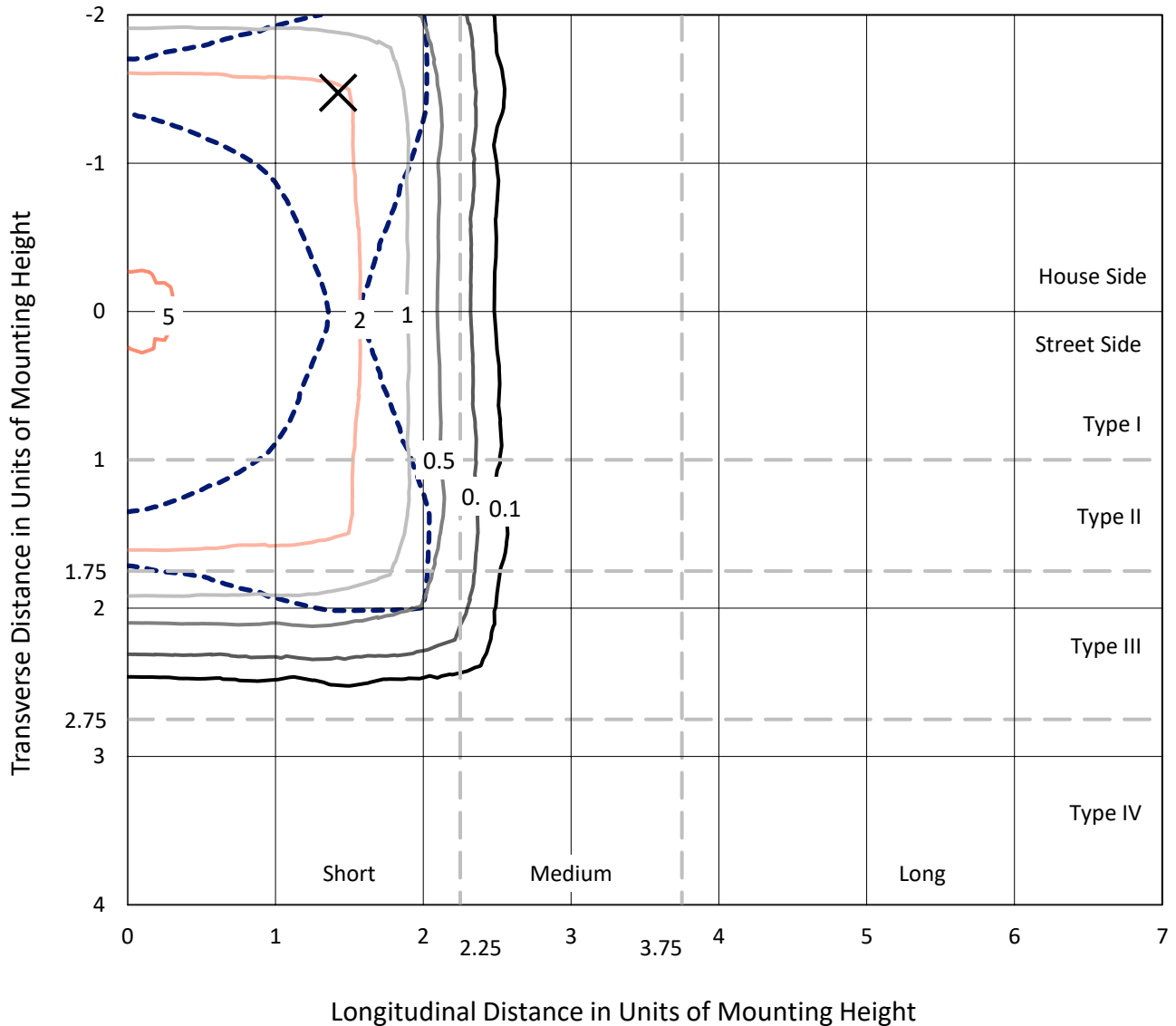
Lumens per Lamp: N/A  
Luminaire Lumens: 38794.2 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2  
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

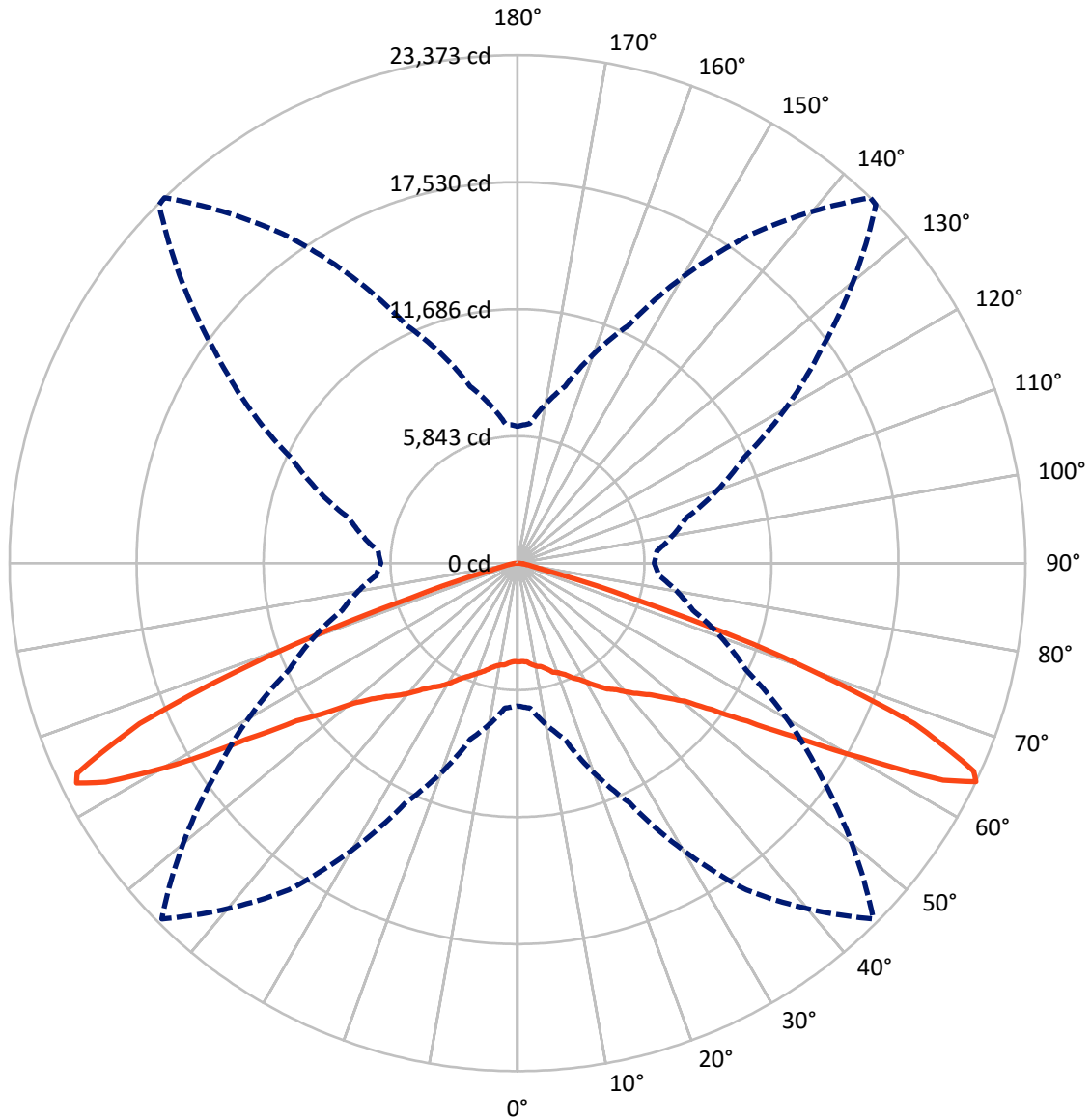
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	19415.6	0.0	19415.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19378.6	0.0	19378.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38794.2	0.0	38794.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.3	1.2
10°-20°	1438.4	3.7
20°-30°	2703.3	7.0
30°-40°	4458.2	11.5
40°-50°	6972.3	18.0
50°-60°	11265.6	29.0
60°-70°	10143.9	26.1
70°-80°	1201.6	3.1
80°-90°	164.5	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°	38794.2	100.0
0°-180°	38794.2	100.0

**Coefficient of Utilization**



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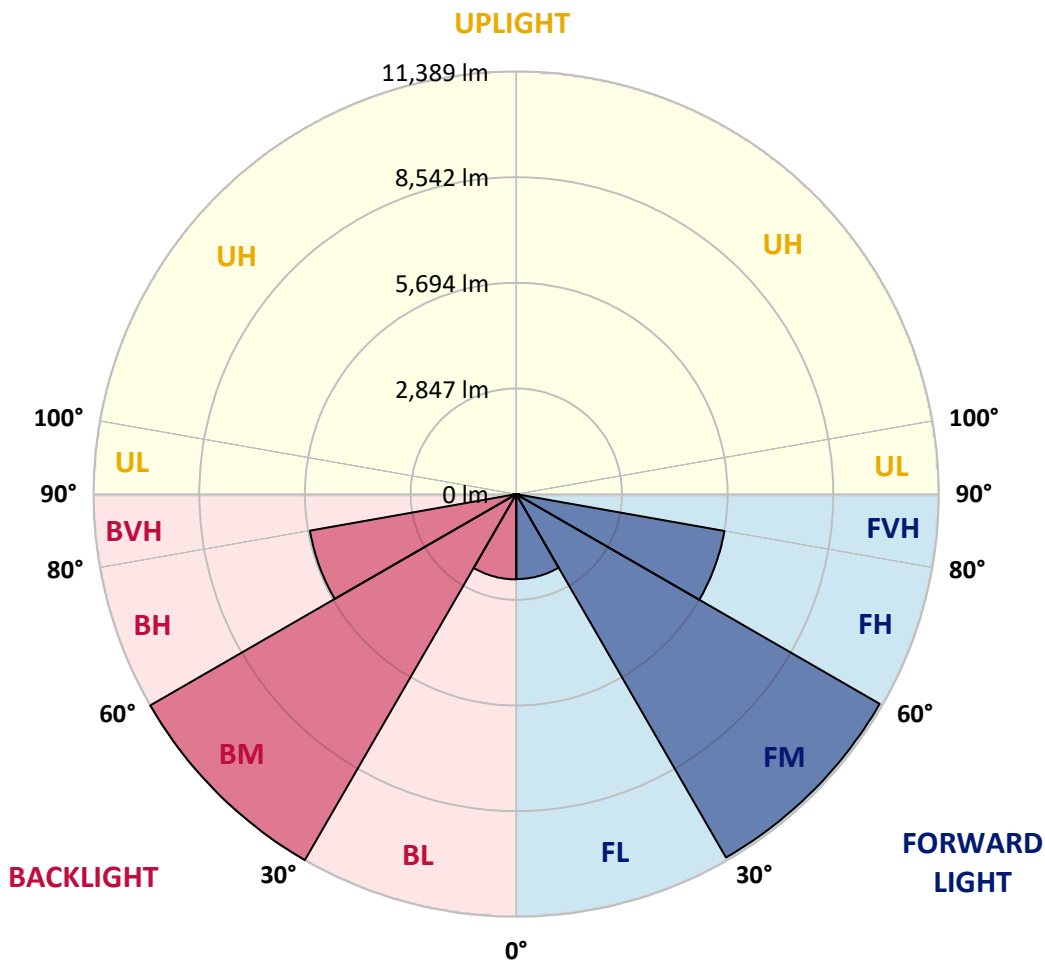
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.6	5.9			
FM (30°-60°)	11307.3	29.1			
FH (60°-80°)	5697.4	14.7			G3/7500
FVH (80°-90°)	84.4	0.2			G1/100
BL (0°-30°)	2298.4	5.9	B3/2500		
BM (30°-60°)	11388.9	29.4	B5		
BH (60°-80°)	5648.2	14.6	B5		G3/7500
BVH (80°-90°)	80.1	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0
2.5°	4488.6	4497.5	4577.6	4546.4	4573.1	4524.2	4559.8	4635.4	4546.4	4613.2	4635.4
5°	4537.6	4550.9	4550.9	4582.0	4599.8	4590.9	4613.2	4582.0	4666.6	4631.0	4684.4
7.5°	4715.5	4693.3	4657.7	4684.4	4688.8	4711.0	4733.3	4773.3	4760.0	4728.8	4782.2
10°	4746.6	4728.8	4782.2	4786.7	4764.4	4746.6	4768.9	4768.9	4808.9	4817.8	4817.8
12.5°	4800.0	4817.8	4813.4	4849.0	4853.4	4840.1	4875.6	4942.4	4924.6	4937.9	4906.8
15°	5004.7	4982.4	4978.0	5013.5	5071.4	4986.9	5049.1	5044.7	5026.9	5053.6	4982.4
17.5°	5182.6	5111.4	5142.6	5200.4	5178.1	5195.9	5276.0	5204.8	5222.6	5191.5	5169.2
20°	5338.3	5280.5	5284.9	5307.2	5307.2	5360.5	5391.7	5365.0	5347.2	5342.7	5351.6
22.5°	5511.8	5445.1	5449.5	5542.9	5574.1	5556.3	5534.0	5578.5	5587.4	5551.8	5591.9
25°	5640.8	5712.0	5734.2	5778.7	5712.0	5760.9	5743.1	5827.6	5881.0	5809.8	5858.8
27.5°	5978.9	5947.7	6005.6	6001.1	6054.5	6005.6	6036.7	6063.4	6085.7	6090.1	6067.9
30°	6281.4	6294.7	6236.9	6392.6	6268.0	6348.1	6401.5	6414.9	6441.5	6441.5	6374.8
32.5°	6601.7	6575.0	6668.4	6632.8	6610.6	6672.9	6615.0	6797.4	6690.7	6752.9	6677.3
35°	6962.0	6962.0	6997.6	7095.5	6962.0	6922.0	7028.8	7104.4	7104.4	6993.2	7019.9
37.5°	7366.8	7331.3	7375.7	7500.3	7398.0	7264.5	7460.3	7491.4	7469.2	7438.0	7384.6
40°	7651.6	7642.7	7731.6	7896.2	7749.4	7722.7	7758.3	7842.8	7869.5	7900.7	7829.5
42.5°	8132.0	8172.0	8430.1	8390.0	8269.9	8176.5	8167.6	8483.4	8407.8	8327.7	8287.7
45°	8843.8	8808.2	8941.6	8946.1	8790.4	8585.8	8630.2	8919.4	9048.4	8870.5	8937.2
47.5°	9408.7	9426.5	9520.0	9711.2	9350.9	9137.4	9302.0	9769.1	9729.0	9662.3	9724.6
50°	10165.0	10245.1	10538.7	10472.0	10151.7	9889.2	10249.5	10689.9	10738.9	10494.2	10449.7
52.5°	11210.4	11335.0	11495.1	11548.5	11241.6	11148.1	11170.4	11717.6	11597.4	11361.7	11210.4
55°	12126.8	12184.7	12478.3	12918.7	12896.4	12447.1	12705.1	12909.8	12420.4	11935.5	11975.6
57.5°	12518.3	12545.0	13363.5	14244.3	14769.3	14871.6	14578.0	13888.5	12722.9	11788.7	11730.9
60°	11544.1	11797.6	12785.2	14773.7	17171.5	18354.8	16401.9	13999.7	12015.6	10881.2	10796.7
62.5°	9226.4	9239.7	10707.7	13723.9	18666.2	21766.9	17100.3	12954.3	10129.4	8843.8	8505.7
64°	6570.6	6695.1	8381.1	12149.1	18354.8	23154.9	17015.8	11588.5	8350.0	6526.1	6290.3
65°	4715.5	4889.0	6517.2	10547.6	17625.3	22990.3	16762.2	10414.1	6752.9	4982.4	4742.2
67.5°	1734.9	1806.1	2557.9	5276.0	12656.2	19591.5	13283.5	5725.3	2967.2	2113.1	1899.5
70°	805.2	809.6	947.5	1743.8	5534.0	13101.1	6339.2	2148.7	1116.6	885.3	823.0
72.5°	591.7	605.0	662.8	805.2	1628.2	5547.4	2081.9	880.8	653.9	578.3	565.0
75°	480.4	489.3	507.1	582.8	751.8	1485.8	845.2	609.5	520.5	467.1	449.3
77.5°	369.2	369.2	409.3	444.9	498.2	694.0	560.5	484.9	422.6	369.2	355.9
80°	266.9	271.4	320.3	347.0	338.1	458.2	404.8	400.4	347.0	289.2	266.9
82.5°	155.7	169.0	231.3	249.1	240.2	271.4	293.6	311.4	271.4	200.2	182.4
85°	89.0	93.4	133.5	137.9	137.9	129.0	169.0	186.8	182.4	124.6	111.2
87.5°	26.7	26.7	35.6	35.6	40.0	44.5	66.7	80.1	89.0	62.3	57.8
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0	4542.0
2.5°	4613.2	4546.4	4550.9	4568.7	4510.9	4533.1	4599.8	4550.9	4537.6	4510.9	4497.5
5°	4590.9	4662.1	4635.4	4644.3	4631.0	4568.7	4559.8	4599.8	4622.1	4582.0	4662.1
7.5°	4746.6	4715.5	4679.9	4693.3	4662.1	4715.5	4751.1	4671.0	4711.0	4688.8	4644.3
10°	4835.6	4777.8	4804.5	4795.6	4773.3	4826.7	4791.1	4782.2	4746.6	4697.7	4768.9
12.5°	4866.7	4933.5	4978.0	4902.3	4915.7	4889.0	4866.7	4866.7	4826.7	4813.4	4826.7
15°	5004.7	5062.5	5044.7	5102.5	5026.9	5053.6	5080.3	5013.5	5049.1	4951.3	5026.9
17.5°	5258.2	5209.3	5271.6	5195.9	5222.6	5276.0	5191.5	5191.5	5218.2	5164.8	5098.1
20°	5418.4	5396.1	5373.9	5378.3	5333.8	5382.8	5356.1	5342.7	5302.7	5320.5	5356.1
22.5°	5569.6	5538.5	5547.4	5560.7	5591.9	5569.6	5556.3	5569.6	5471.8	5560.7	5436.2
25°	5756.5	5841.0	5814.3	5872.1	5783.2	5841.0	5836.5	5752.0	5805.4	5769.8	5743.1
27.5°	6067.9	6023.4	6063.4	5992.2	6054.5	6059.0	6005.6	6147.9	6085.7	6076.8	6059.0
30°	6468.2	6437.1	6410.4	6370.4	6419.3	6379.3	6423.7	6437.1	6379.3	6334.8	6250.3
32.5°	6695.1	6779.6	6810.8	6712.9	6717.4	6739.6	6699.6	6659.5	6695.1	6708.5	6695.1
35°	7015.4	7095.5	7113.3	7037.7	6997.6	7108.8	7028.8	7162.2	7046.5	7051.0	6930.9
37.5°	7389.1	7411.3	7562.6	7478.1	7442.5	7389.1	7535.9	7518.1	7544.8	7331.3	7438.0
40°	7811.7	7891.8	7976.3	7762.8	7758.3	7807.3	7798.4	7900.7	7851.7	7820.6	7745.0
42.5°	8274.4	8443.4	8456.7	8314.4	8225.4	8216.5	8261.0	8487.9	8492.3	8287.7	8198.7
45°	8888.3	9075.1	9026.2	8750.4	8652.5	8639.1	8857.1	8955.0	9039.5	8959.4	8883.8
47.5°	9653.4	9778.0	9742.4	9488.8	9173.0	9261.9	9475.5	9782.4	9693.5	9586.7	9497.7
50°	10472.0	10618.8	10543.1	10289.6	9987.1	9987.1	10249.5	10641.0	10614.3	10405.2	10325.2
52.5°	11379.5	11593.0	11766.5	11406.2	11152.6	11192.6	11606.3	11748.7	11682.0	11535.2	11468.4
55°	12055.6	12464.9	12820.8	12838.6	12851.9	12847.5	12954.3	13096.6	12620.6	12384.8	12144.6
57.5°	11891.1	12665.1	13884.0	14711.4	14956.1	15085.1	15049.5	14391.2	13265.7	12491.6	12571.7
60°	10716.6	11980.0	13946.3	16602.1	18381.5	18203.6	17554.1	14951.7	12909.8	11601.9	11437.3
62.5°	8550.2	10071.6	12900.9	17135.9	22038.3	21984.9	18586.2	13657.1	10756.7	9101.8	8999.5
64°	6441.5	8043.0	11508.5	16998.0	23319.4	23372.8	18323.7	12064.5	8416.7	6441.5	6285.8
65°	4929.0	6414.9	10142.8	16713.3	23043.6	23074.8	17594.1	10418.6	6397.1	4573.1	4404.1
67.5°	1961.8	2731.4	5502.9	12674.0	19787.3	19702.8	12553.9	5040.2	2446.7	1592.6	1561.5
70°	836.3	1041.0	1930.7	6005.6	13247.9	13003.2	5405.0	1637.1	907.5	760.7	756.3
72.5°	573.9	636.1	827.4	1855.1	5507.3	5378.3	1539.2	760.7	618.4	569.4	569.4
75°	462.7	507.1	600.6	778.5	1459.1	1405.8	725.1	560.5	493.8	458.2	453.8
77.5°	360.3	404.8	471.5	538.3	667.3	662.8	484.9	422.6	382.6	355.9	347.0
80°	284.7	329.2	373.7	382.6	436.0	427.1	329.2	333.6	311.4	258.0	253.6
82.5°	195.7	266.9	298.1	271.4	258.0	258.0	235.8	235.8	218.0	160.1	146.8
85°	120.1	177.9	186.8	160.1	120.1	120.1	129.0	124.6	115.7	84.5	80.1
87.5°	62.3	84.5	75.6	62.3	40.0	40.0	35.6	26.7	26.7	22.2	22.2
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)