

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: P478848

Luminaire Tested: **IFLD-L-SA7E-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478848  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

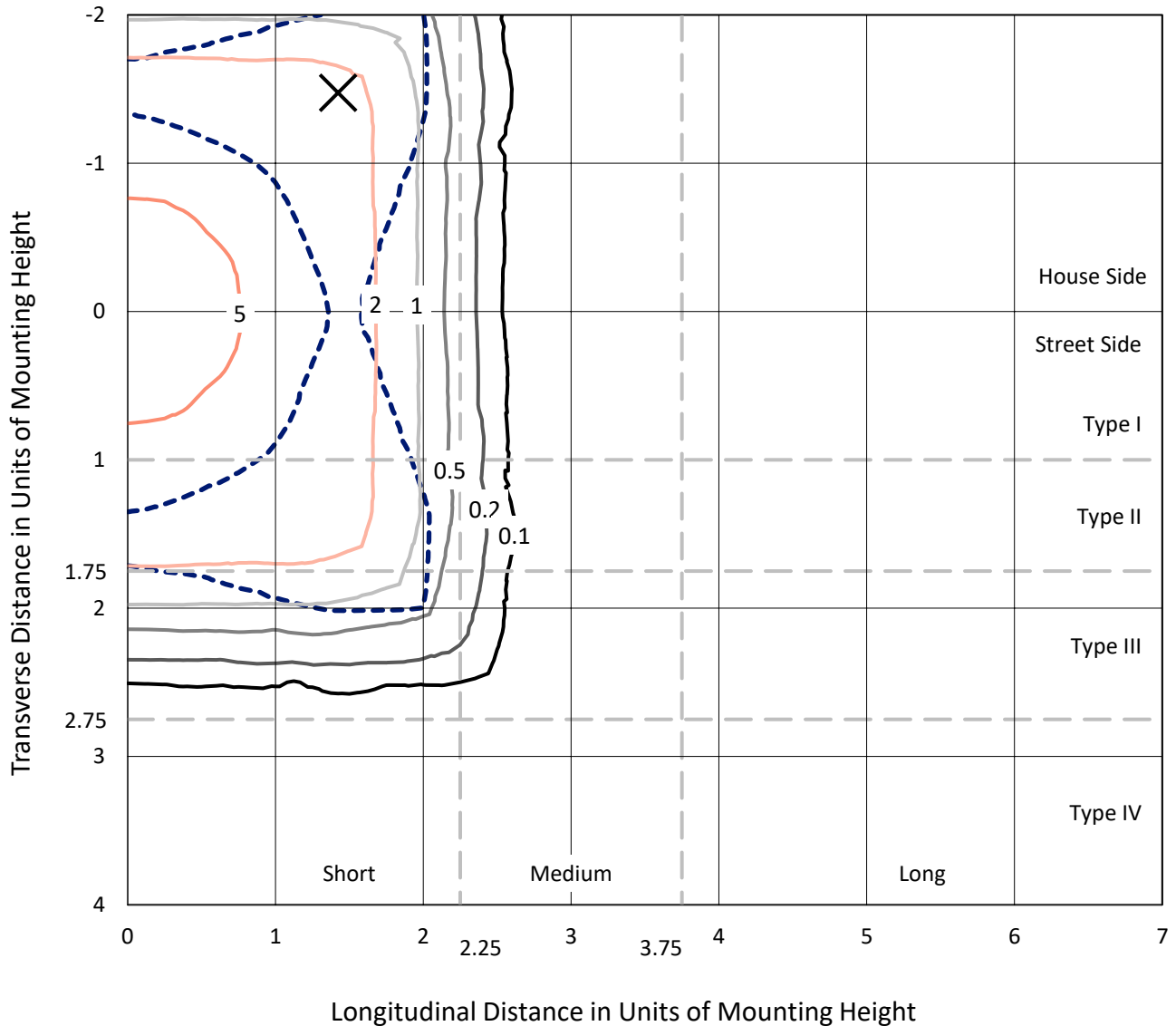
Lumens per Lamp: N/A  
Luminaire Lumens: 47086.3 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 532.7  
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

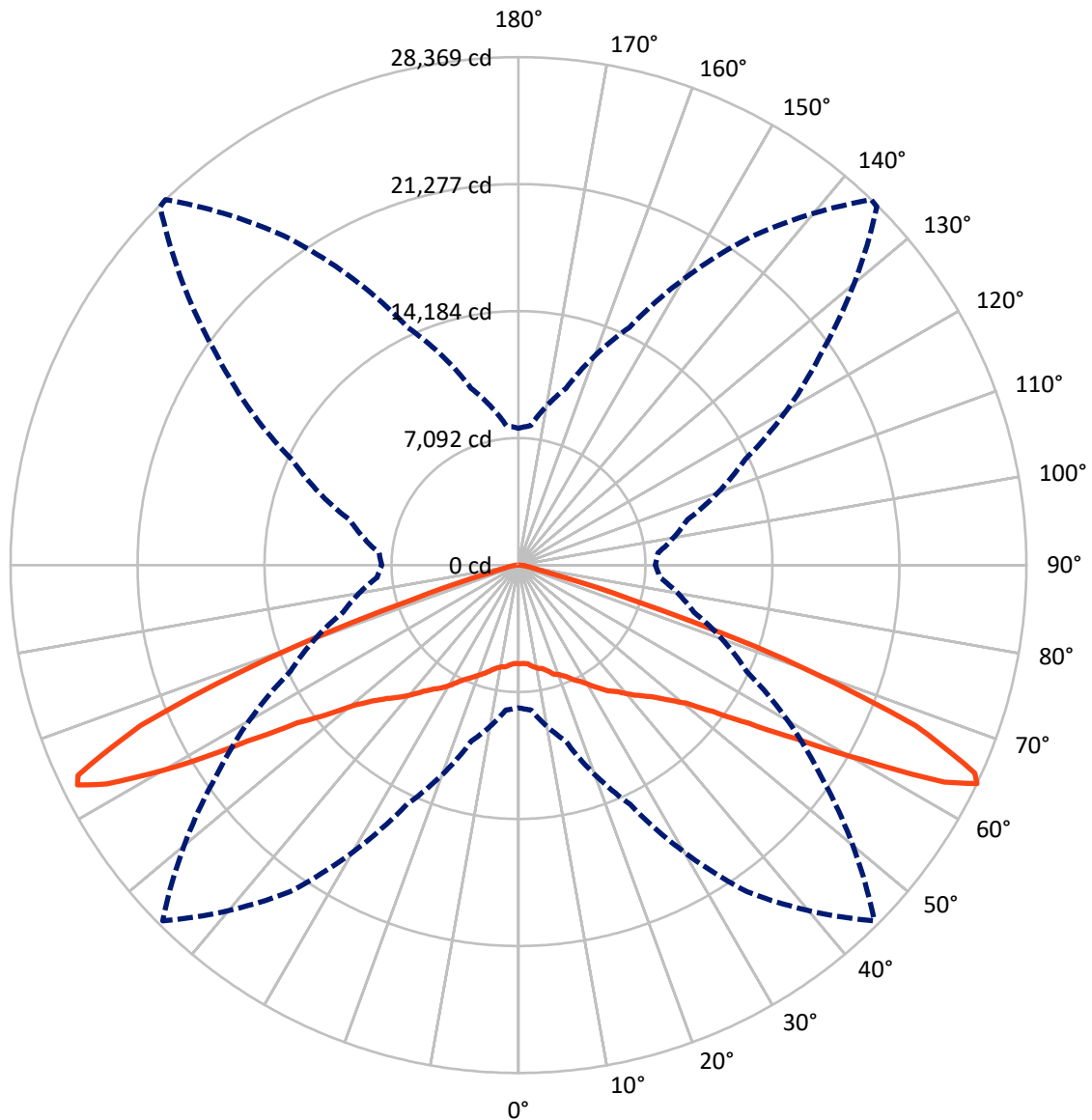
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	23565.6	0.0	23565.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23520.7	0.0	23520.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47086.3	0.0	47086.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.7	1.2
10°-20°	1745.8	3.7
20°-30°	3281.1	7.0
30°-40°	5411.1	11.5
40°-50°	8462.7	18.0
50°-60°	13673.6	29.0
60°-70°	12312.2	26.1
70°-80°	1458.4	3.1
80°-90°	199.7	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°	47086.3	100.0
0°-180°	47086.3	100.0

**Coefficient of Utilization**



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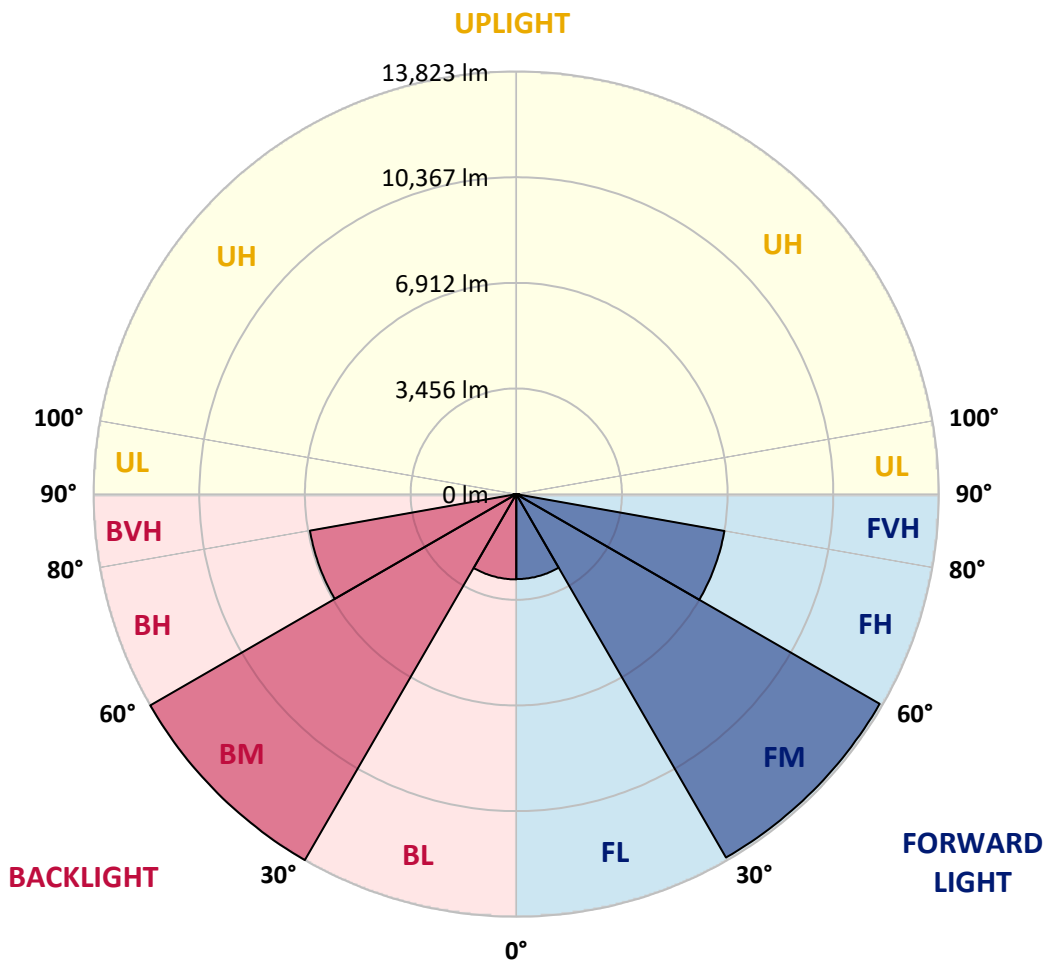
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.0	5.9			
FM (30°-60°)	13724.2	29.1			
FH (60°-80°)	6915.2	14.7			G3/7500
FVH (80°-90°)	102.4	0.2			G2/225
BL (0°-30°)	2789.7	5.9	B4/5000		
BM (30°-60°)	13823.2	29.4	B5		
BH (60°-80°)	6855.5	14.6	B5		G3/7500
BVH (80°-90°)	97.2	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°	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8
2.5°	5448.0	5458.8	5556.0	5518.2	5550.6	5491.2	5534.4	5626.2	5518.2	5599.2	5626.2
5°	5507.4	5523.6	5523.6	5561.4	5583.0	5572.2	5599.2	5561.4	5664.0	5620.8	5685.6
7.5°	5723.4	5696.4	5653.2	5685.6	5691.0	5718.0	5745.0	5793.6	5777.4	5739.6	5804.4
10°	5761.2	5739.6	5804.4	5809.8	5782.8	5761.2	5788.2	5788.2	5836.8	5847.6	5847.6
12.5°	5826.0	5847.6	5842.2	5885.4	5890.8	5874.6	5917.8	5998.8	5977.2	5993.4	5955.6
15°	6074.4	6047.4	6042.0	6085.2	6155.4	6052.8	6128.4	6123.0	6101.4	6133.8	6047.4
17.5°	6290.4	6204.0	6241.8	6312.0	6285.0	6306.6	6403.8	6317.4	6339.0	6301.2	6274.2
20°	6479.3	6409.2	6414.6	6441.5	6441.5	6506.3	6544.1	6511.7	6490.1	6484.7	6495.5
22.5°	6689.9	6608.9	6614.3	6727.7	6765.5	6743.9	6716.9	6770.9	6781.7	6738.5	6787.1
25°	6846.5	6932.9	6959.9	7013.9	6932.9	6992.3	6970.7	7073.3	7138.1	7051.7	7111.1
27.5°	7256.9	7219.1	7289.3	7283.9	7348.7	7289.3	7327.1	7359.5	7386.5	7391.9	7364.9
30°	7624.0	7640.2	7570.0	7759.0	7607.8	7705.0	7769.8	7786.0	7818.4	7818.4	7737.4
32.5°	8012.8	7980.4	8093.8	8050.6	8023.6	8099.2	8029.0	8250.4	8120.8	8196.4	8104.6
35°	8450.1	8450.1	8493.3	8612.1	8450.1	8401.5	8531.1	8622.9	8622.9	8487.9	8520.3
37.5°	8941.5	8898.3	8952.3	9103.5	8979.3	8817.3	9054.9	9092.7	9065.7	9027.9	8963.1
40°	9287.1	9276.3	9384.2	9584.0	9405.8	9373.5	9416.6	9519.2	9551.6	9589.4	9503.0
42.5°	9870.2	9918.8	10232.0	10183.4	10037.6	9924.2	9913.4	10296.8	10205.0	10107.8	10059.2
45°	10734.1	10690.9	10852.9	10858.3	10669.3	10420.9	10474.9	10825.9	10982.5	10766.5	10847.5
47.5°	11419.8	11441.4	11554.8	11787.0	11349.7	11090.5	11290.3	11857.2	11808.6	11727.6	11803.2
50°	12337.8	12434.9	12791.3	12710.3	12321.6	12003.0	12440.3	12974.9	13034.3	12737.3	12683.3
52.5°	13606.6	13757.8	13952.2	14017.0	13644.4	13531.0	13558.0	14222.2	14076.4	13790.2	13606.6
55°	14718.9	14789.1	15145.5	15680.0	15653.0	15107.7	15420.8	15669.2	15075.3	14486.7	14535.3
57.5°	15194.1	15226.5	16220.0	17289.0	17926.2	18050.4	17694.0	16857.1	15442.4	14308.6	14238.4
60°	14011.6	14319.3	15518.0	17931.6	20841.9	22278.1	19907.8	16992.1	14583.9	13207.1	13104.5
62.5°	11198.5	11214.7	12996.5	16657.3	22656.1	26419.5	20755.5	15723.2	12294.6	10734.1	10323.8
64°	7975.0	8126.2	10172.6	14745.9	22278.1	28104.2	20652.9	14065.6	10134.8	7921.0	7634.8
65°	5723.4	5934.0	7910.2	12802.1	21392.6	27904.4	20345.1	12640.1	8196.4	6047.4	5755.8
67.5°	2105.8	2192.2	3104.7	6403.8	15361.4	23779.2	16122.8	6949.1	3601.4	2564.7	2305.6
70°	977.3	982.7	1150.1	2116.6	6716.9	15901.4	7694.2	2607.9	1355.3	1074.5	998.9
72.5°	718.1	734.3	804.5	977.3	1976.2	6733.1	2526.9	1069.1	793.7	701.9	685.7
75°	583.1	593.9	615.5	707.3	912.5	1803.4	1025.9	739.7	631.7	566.9	545.3
77.5°	448.2	448.2	496.7	539.9	604.7	842.3	680.3	588.5	512.9	448.2	432.0
80°	324.0	329.4	388.8	421.2	410.4	556.1	491.4	486.0	421.2	351.0	324.0
82.5°	189.0	205.2	280.8	302.4	291.6	329.4	356.4	378.0	329.4	243.0	221.4
85°	108.0	113.4	162.0	167.4	167.4	156.6	205.2	226.8	221.4	151.2	135.0
87.5°	32.4	32.4	43.2	43.2	48.6	54.0	81.0	97.2	108.0	75.6	70.2
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°	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8
2.5°	5599.2	5518.2	5523.6	5545.2	5475.0	5502.0	5583.0	5523.6	5507.4	5475.0	5458.8
5°	5572.2	5658.6	5626.2	5637.0	5620.8	5545.2	5534.4	5583.0	5610.0	5561.4	5658.6
7.5°	5761.2	5723.4	5680.2	5696.4	5658.6	5723.4	5766.6	5669.4	5718.0	5691.0	5637.0
10°	5869.2	5799.0	5831.4	5820.6	5793.6	5858.4	5815.2	5804.4	5761.2	5701.8	5788.2
12.5°	5907.0	5988.0	6042.0	5950.2	5966.4	5934.0	5907.0	5907.0	5858.4	5842.2	5858.4
15°	6074.4	6144.6	6123.0	6193.2	6101.4	6133.8	6166.2	6085.2	6128.4	6009.6	6101.4
17.5°	6382.2	6322.8	6398.4	6306.6	6339.0	6403.8	6301.2	6301.2	6333.6	6268.8	6187.8
20°	6576.5	6549.5	6522.5	6527.9	6473.9	6533.3	6500.9	6484.7	6436.1	6457.7	6500.9
22.5°	6760.1	6722.3	6733.1	6749.3	6787.1	6760.1	6743.9	6760.1	6641.3	6749.3	6598.1
25°	6986.9	7089.5	7057.1	7127.3	7019.3	7089.5	7084.1	6981.5	7046.3	7003.1	6970.7
27.5°	7364.9	7310.9	7359.5	7273.1	7348.7	7354.1	7289.3	7462.0	7386.5	7375.7	7354.1
30°	7850.8	7813.0	7780.6	7732.0	7791.4	7742.8	7796.8	7813.0	7742.8	7688.8	7586.2
32.5°	8126.2	8228.8	8266.6	8147.8	8153.2	8180.2	8131.6	8083.0	8126.2	8142.4	8126.2
35°	8514.9	8612.1	8633.7	8541.9	8493.3	8628.3	8531.1	8693.1	8552.7	8558.1	8412.3
37.5°	8968.5	8995.5	9179.1	9076.5	9033.3	8968.5	9146.7	9125.1	9157.5	8898.3	9027.9
40°	9481.4	9578.6	9681.2	9422.0	9416.6	9476.0	9465.2	9589.4	9530.0	9492.2	9400.4
42.5°	10043.0	10248.2	10264.4	10091.6	9983.6	9972.8	10026.8	10302.2	10307.6	10059.2	9951.2
45°	10788.1	11014.9	10955.5	10620.7	10501.9	10485.7	10750.3	10869.1	10971.7	10874.5	10782.7
47.5°	11716.8	11868.0	11824.8	11517.0	11133.7	11241.7	11500.8	11873.4	11765.4	11635.8	11527.8
50°	12710.3	12888.5	12796.7	12488.9	12121.8	12121.8	12440.3	12915.5	12883.1	12629.3	12532.1
52.5°	13811.8	14071.0	14281.6	13844.2	13536.4	13585.0	14087.2	14260.0	14179.0	14000.8	13919.8
55°	14632.5	15129.3	15561.2	15582.8	15599.0	15593.6	15723.2	15896.0	15318.2	15032.1	14740.5
57.5°	14432.7	15372.2	16851.7	17856.0	18153.0	18309.5	18266.4	17467.2	16101.2	15161.7	15258.9
60°	13007.3	14540.7	16927.3	20150.8	22310.5	22094.6	21306.2	18147.6	15669.2	14081.8	13882.0
62.5°	10377.7	12224.4	15658.4	20798.7	26748.9	26684.1	22558.9	16576.3	13055.9	11047.3	10923.1
64°	7818.4	9762.2	13968.4	20631.3	28303.9	28368.7	22240.3	14643.3	10215.8	7818.4	7629.4
65°	5982.6	7786.0	12310.8	20285.7	27969.2	28007.0	21354.8	12645.5	7764.4	5550.6	5345.5
67.5°	2381.2	3315.3	6679.1	15383.0	24016.8	23914.2	15237.3	6117.6	2969.7	1933.0	1895.2
70°	1015.1	1263.5	2343.4	7289.3	16079.6	15782.6	6560.3	1987.0	1101.5	923.3	917.9
72.5°	696.5	772.1	1004.3	2251.6	6684.5	6527.9	1868.2	923.3	750.5	691.1	691.1
75°	561.5	615.5	728.9	944.9	1771.0	1706.2	880.1	680.3	599.3	556.1	550.7
77.5°	437.4	491.4	572.3	653.3	809.9	804.5	588.5	512.9	464.4	432.0	421.2
80°	345.6	399.6	453.6	464.4	529.1	518.3	399.6	405.0	378.0	313.2	307.8
82.5°	237.6	324.0	361.8	329.4	313.2	313.2	286.2	286.2	264.6	194.4	178.2
85°	145.8	216.0	226.8	194.4	145.8	145.8	156.6	151.2	140.4	102.6	97.2
87.5°	75.6	102.6	91.8	75.6	48.6	48.6	43.2	32.4	32.4	27.0	27.0
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)