

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: P479082

Luminaire Tested: **IFLD-L-SA7E-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479082  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-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**

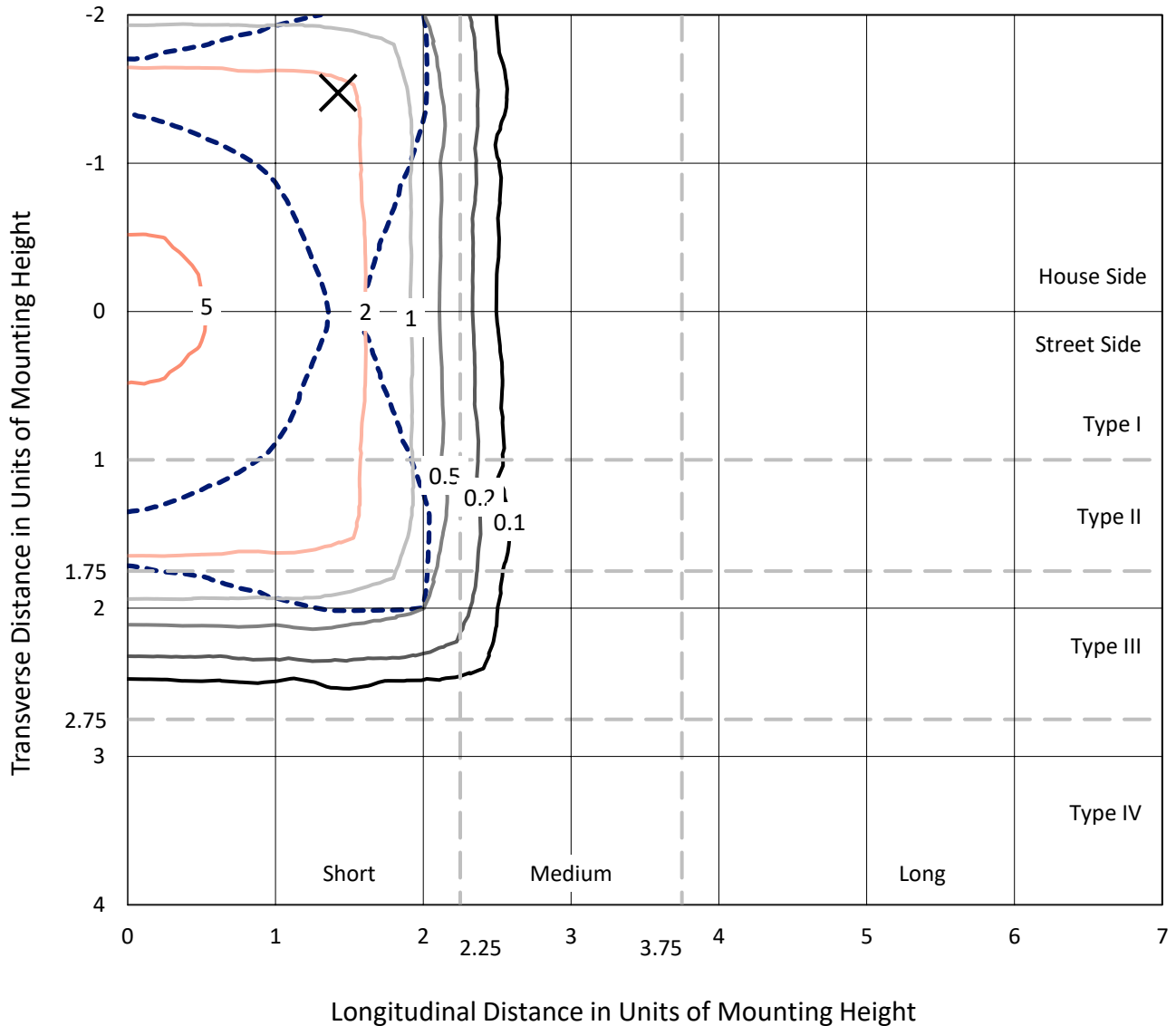
Lumens per Lamp: N/A  
Luminaire Lumens: 41388.5 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

REPORT NUMBER: P479082  
 CATALOG NUMBER: IFLD-L-SA7E-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

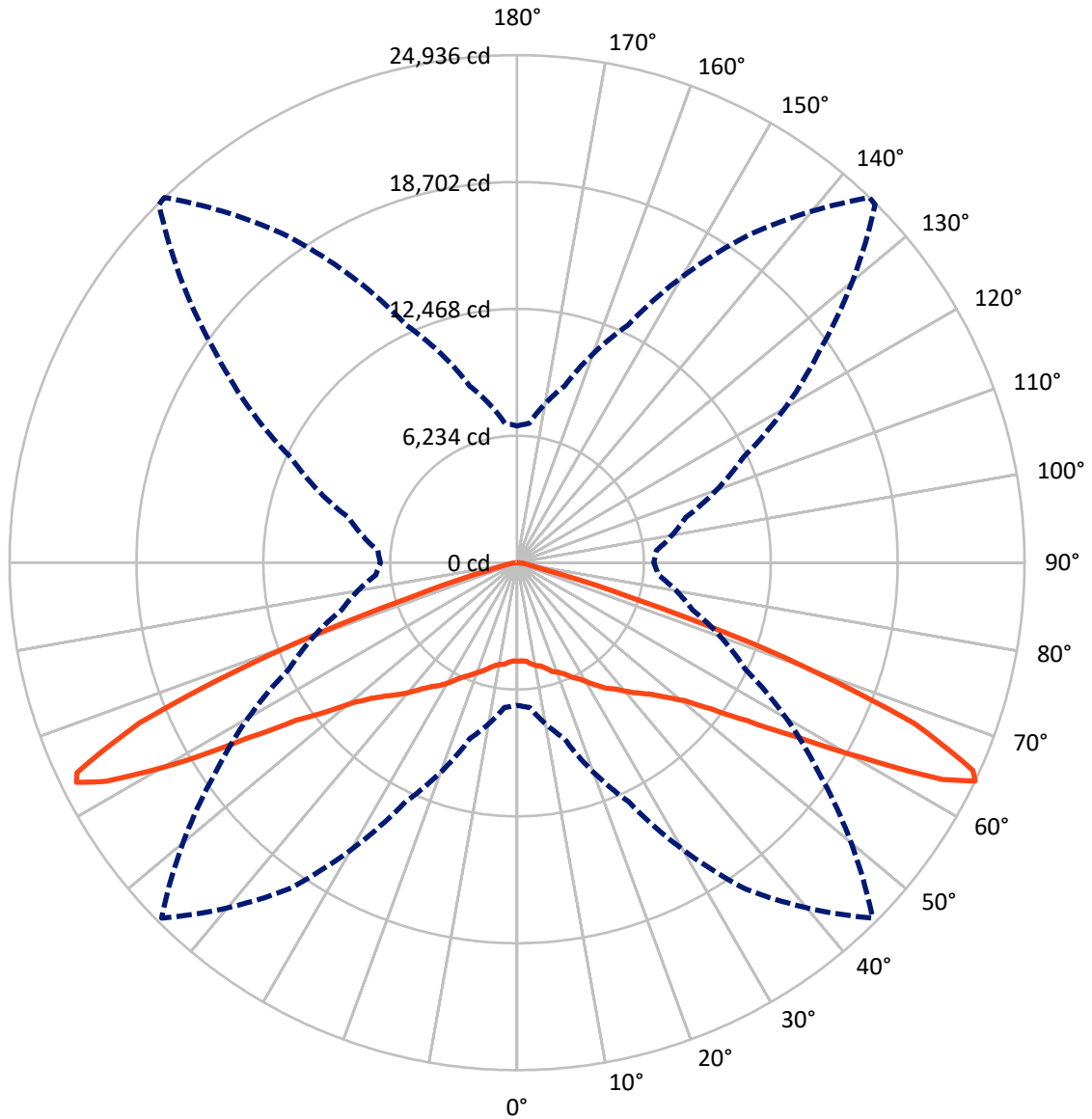
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P479082  
CATALOG NUMBER: IFLD-L-SA7E-827-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P479082

CATALOG NUMBER: IFLD-L-SA7E-827-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20714.0	0.0	20714.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20674.5	0.0	20674.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41388.5	0.0	41388.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.1	1.2
10°-20°	1534.6	3.7
20°-30°	2884.1	7.0
30°-40°	4756.4	11.5
40°-50°	7438.6	18.0
50°-60°	12019.0	29.0
60°-70°	10822.3	26.1
70°-80°	1282.0	3.1
80°-90°	175.5	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°	41388.5	100.0
0°-180°	41388.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479082

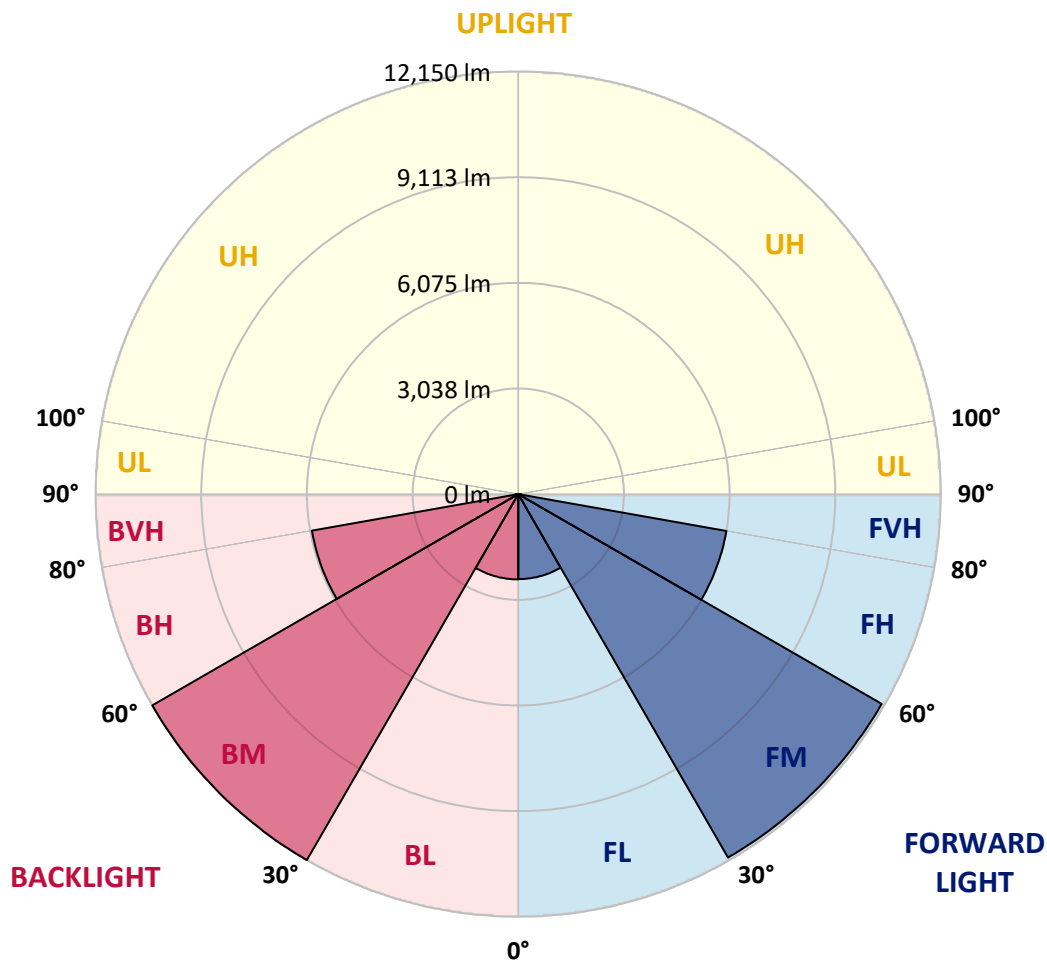
CATALOG NUMBER: IFLD-L-SA7E-827-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.7	5.9			
FM (30°-60°)	12063.4	29.1			
FH (60°-80°)	6078.4	14.7			G3/7500
FVH (80°-90°)	90.0	0.2			G1/100
BL (0°-30°)	2452.1	5.9	B3/2500		
BM (30°-60°)	12150.5	29.4	B5		
BH (60°-80°)	6025.9	14.6	B5		G3/7500
BVH (80°-90°)	85.5	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





REPORT NUMBER: P479082

CATALOG NUMBER: IFLD-L-SA7E-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7
2.5°	4788.8	4798.3	4883.7	4850.5	4879.0	4826.8	4864.7	4945.4	4850.5	4921.7	4945.4
5°	4841.0	4855.2	4855.2	4888.5	4907.4	4897.9	4921.7	4888.5	4978.6	4940.7	4997.6
7.5°	5030.8	5007.1	4969.1	4997.6	5002.4	5026.1	5049.8	5092.5	5078.3	5045.1	5102.0
10°	5064.1	5045.1	5102.0	5106.8	5083.0	5064.1	5087.8	5087.8	5130.5	5140.0	5140.0
12.5°	5121.0	5140.0	5135.2	5173.2	5178.0	5163.7	5201.7	5272.9	5253.9	5268.1	5234.9
15°	5339.3	5315.6	5310.9	5348.8	5410.5	5320.3	5386.8	5382.0	5363.1	5391.5	5315.6
17.5°	5529.2	5453.2	5486.5	5548.2	5524.4	5543.4	5628.8	5552.9	5571.9	5538.7	5514.9
20°	5695.3	5633.6	5638.3	5662.1	5662.1	5719.0	5752.2	5723.8	5704.8	5700.0	5709.5
22.5°	5880.4	5809.2	5813.9	5913.6	5946.8	5927.8	5904.1	5951.6	5961.1	5923.1	5965.8
25°	6018.0	6094.0	6117.7	6165.1	6094.0	6146.2	6127.2	6217.4	6274.3	6198.4	6250.6
27.5°	6378.7	6345.5	6407.2	6402.4	6459.4	6407.2	6440.4	6468.9	6492.6	6497.4	6473.6
30°	6701.5	6715.7	6654.0	6820.1	6687.2	6772.6	6829.6	6843.8	6872.3	6872.3	6801.1
32.5°	7043.2	7014.7	7114.4	7076.4	7052.7	7119.1	7057.4	7252.0	7138.1	7204.5	7123.9
35°	7427.6	7427.6	7465.6	7570.0	7427.6	7384.9	7498.8	7579.5	7579.5	7460.8	7489.3
37.5°	7859.5	7821.5	7869.0	8001.9	7892.7	7750.3	7959.2	7992.4	7968.7	7935.4	7878.5
40°	8163.2	8153.7	8248.7	8424.3	8267.7	8239.2	8277.1	8367.3	8395.8	8429.0	8353.1
42.5°	8675.8	8718.5	8993.8	8951.1	8822.9	8723.3	8713.8	9050.8	8970.1	8884.6	8841.9
45°	9435.2	9397.2	9539.6	9544.3	9378.2	9159.9	9207.4	9515.9	9653.5	9463.7	9534.9
47.5°	10037.9	10056.9	10156.6	10360.7	9976.2	9748.4	9924.0	10422.4	10379.7	10308.5	10374.9
50°	10844.8	10930.2	11243.4	11172.2	10830.5	10550.5	10934.9	11404.8	11457.0	11196.0	11148.5
52.5°	11960.1	12093.0	12263.8	12320.8	11993.3	11893.7	11917.4	12501.1	12373.0	12121.5	11960.1
55°	12937.8	12999.5	13312.7	13782.6	13758.9	13279.5	13554.8	13773.1	13251.0	12733.7	12776.4
57.5°	13355.4	13383.9	14257.2	15196.9	15757.0	15866.1	15552.9	14817.2	13573.8	12577.1	12515.4
60°	12316.1	12586.6	13640.2	15761.7	18319.8	19582.3	17498.8	14935.9	12819.1	11608.9	11518.7
62.5°	9843.3	9857.6	11423.8	14641.6	19914.5	23222.5	18243.9	13820.6	10806.8	9435.2	9074.5
64°	7009.9	7142.8	8941.6	12961.5	19582.3	24703.3	18153.7	12363.5	8908.4	6962.5	6710.9
65°	5030.8	5215.9	6953.0	11252.9	18803.9	24527.7	17883.2	11110.5	7204.5	5315.6	5059.3
67.5°	1851.0	1926.9	2729.0	5628.8	13502.6	20901.7	14171.8	6108.2	3165.6	2254.4	2026.6
70°	859.0	863.8	1010.9	1860.5	5904.1	13977.2	6763.1	2292.4	1191.3	944.5	878.0
72.5°	631.2	645.5	707.2	859.0	1737.1	5918.3	2221.2	939.7	697.7	617.0	602.8
75°	512.6	522.1	541.1	621.7	802.1	1585.2	901.8	650.2	555.3	498.3	479.4
77.5°	393.9	393.9	436.6	474.6	531.6	740.4	598.0	517.3	450.9	393.9	379.7
80°	284.8	289.5	341.7	370.2	360.7	488.8	431.9	427.1	370.2	308.5	284.8
82.5°	166.1	180.4	246.8	265.8	256.3	289.5	313.2	332.2	289.5	213.6	194.6
85°	94.9	99.7	142.4	147.1	147.1	137.6	180.4	199.3	194.6	132.9	118.7
87.5°	28.5	28.5	38.0	38.0	42.7	47.5	71.2	85.4	94.9	66.4	61.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479082  
 CATALOG NUMBER: IFLD-L-SA7E-827-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7	4845.7
2.5°	4921.7	4850.5	4855.2	4874.2	4812.5	4836.2	4907.4	4855.2	4841.0	4812.5	4798.3
5°	4897.9	4973.9	4945.4	4954.9	4940.7	4874.2	4864.7	4907.4	4931.2	4888.5	4973.9
7.5°	5064.1	5030.8	4992.9	5007.1	4973.9	5030.8	5068.8	4983.4	5026.1	5002.4	4954.9
10°	5159.0	5097.3	5125.8	5116.3	5092.5	5149.5	5111.5	5102.0	5064.1	5011.8	5087.8
12.5°	5192.2	5263.4	5310.9	5230.2	5244.4	5215.9	5192.2	5192.2	5149.5	5135.2	5149.5
15°	5339.3	5401.0	5382.0	5443.7	5363.1	5391.5	5420.0	5348.8	5386.8	5282.4	5363.1
17.5°	5609.9	5557.6	5624.1	5543.4	5571.9	5628.8	5538.7	5538.7	5567.1	5510.2	5439.0
20°	5780.7	5757.0	5733.3	5738.0	5690.5	5742.7	5714.3	5700.0	5657.3	5676.3	5714.3
22.5°	5942.1	5908.9	5918.3	5932.6	5965.8	5942.1	5927.8	5942.1	5837.7	5932.6	5799.7
25°	6141.4	6231.6	6203.1	6264.8	6169.9	6231.6	6226.8	6136.7	6193.6	6155.7	6127.2
27.5°	6473.6	6426.2	6468.9	6393.0	6459.4	6464.1	6407.2	6559.1	6492.6	6483.1	6464.1
30°	6900.8	6867.6	6839.1	6796.4	6848.6	6805.9	6853.3	6867.6	6805.9	6758.4	6668.2
32.5°	7142.8	7233.0	7266.2	7161.8	7166.6	7190.3	7147.6	7104.9	7142.8	7157.1	7142.8
35°	7484.6	7570.0	7589.0	7508.3	7465.6	7584.2	7498.8	7641.2	7517.8	7522.5	7394.4
37.5°	7883.2	7907.0	8068.3	7978.1	7940.2	7883.2	8039.8	8020.9	8049.3	7821.5	7935.4
40°	8334.1	8419.5	8509.7	8281.9	8277.1	8329.4	8319.9	8429.0	8376.8	8343.6	8262.9
42.5°	8827.7	9008.0	9022.3	8870.4	8775.5	8766.0	8813.5	9055.5	9060.2	8841.9	8747.0
45°	9482.6	9682.0	9629.8	9335.5	9231.1	9216.9	9449.4	9553.8	9644.0	9558.6	9477.9
47.5°	10299.0	10431.9	10393.9	10123.4	9786.4	9881.3	10109.1	10436.6	10341.7	10227.8	10132.9
50°	11172.2	11328.9	11248.2	10977.7	10654.9	10654.9	10934.9	11352.6	11324.1	11101.1	11015.6
52.5°	12140.4	12368.3	12553.4	12168.9	11898.4	11941.1	12382.5	12534.4	12463.2	12306.6	12235.4
55°	12861.8	13298.5	13678.2	13697.2	13711.4	13706.6	13820.6	13972.4	13464.6	13213.1	12956.8
57.5°	12686.2	13512.1	14812.5	15695.3	15956.3	16093.9	16056.0	15353.5	14152.8	13327.0	13412.4
60°	11433.3	12781.2	14878.9	17712.3	19610.8	19420.9	18728.0	15951.5	13773.1	12377.7	12202.1
62.5°	9121.9	10745.1	13763.6	18281.9	23512.0	23455.1	19829.1	14570.4	11476.0	9710.5	9601.3
64°	6872.3	8580.9	12278.1	18134.7	24878.9	24935.8	19549.1	12871.3	8979.6	6872.3	6706.2
65°	5258.6	6843.8	10821.0	17831.0	24584.6	24617.9	18770.7	11115.3	6824.8	4879.0	4698.6
67.5°	2093.0	2914.1	5870.9	13521.6	21110.5	21020.3	13393.4	5377.3	2610.3	1699.1	1665.9
70°	892.3	1110.6	2059.8	6407.2	14133.8	13872.8	5766.5	1746.6	968.2	811.6	806.8
72.5°	612.2	678.7	882.8	1979.1	5875.6	5738.0	1642.1	811.6	659.7	607.5	607.5
75°	493.6	541.1	640.7	830.6	1556.7	1499.8	773.6	598.0	526.8	488.8	484.1
77.5°	384.4	431.9	503.1	574.3	711.9	707.2	517.3	450.9	408.2	379.7	370.2
80°	303.7	351.2	398.7	408.2	465.1	455.6	351.2	356.0	332.2	275.3	270.5
82.5°	208.8	284.8	318.0	289.5	275.3	275.3	251.5	251.5	232.6	170.9	156.6
85°	128.1	189.8	199.3	170.9	128.1	128.1	137.6	132.9	123.4	90.2	85.4
87.5°	66.4	90.2	80.7	66.4	42.7	42.7	38.0	28.5	28.5	23.7	23.7
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)