

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: P479511

Luminaire Tested: **IFLD-L-SA7E-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479511  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

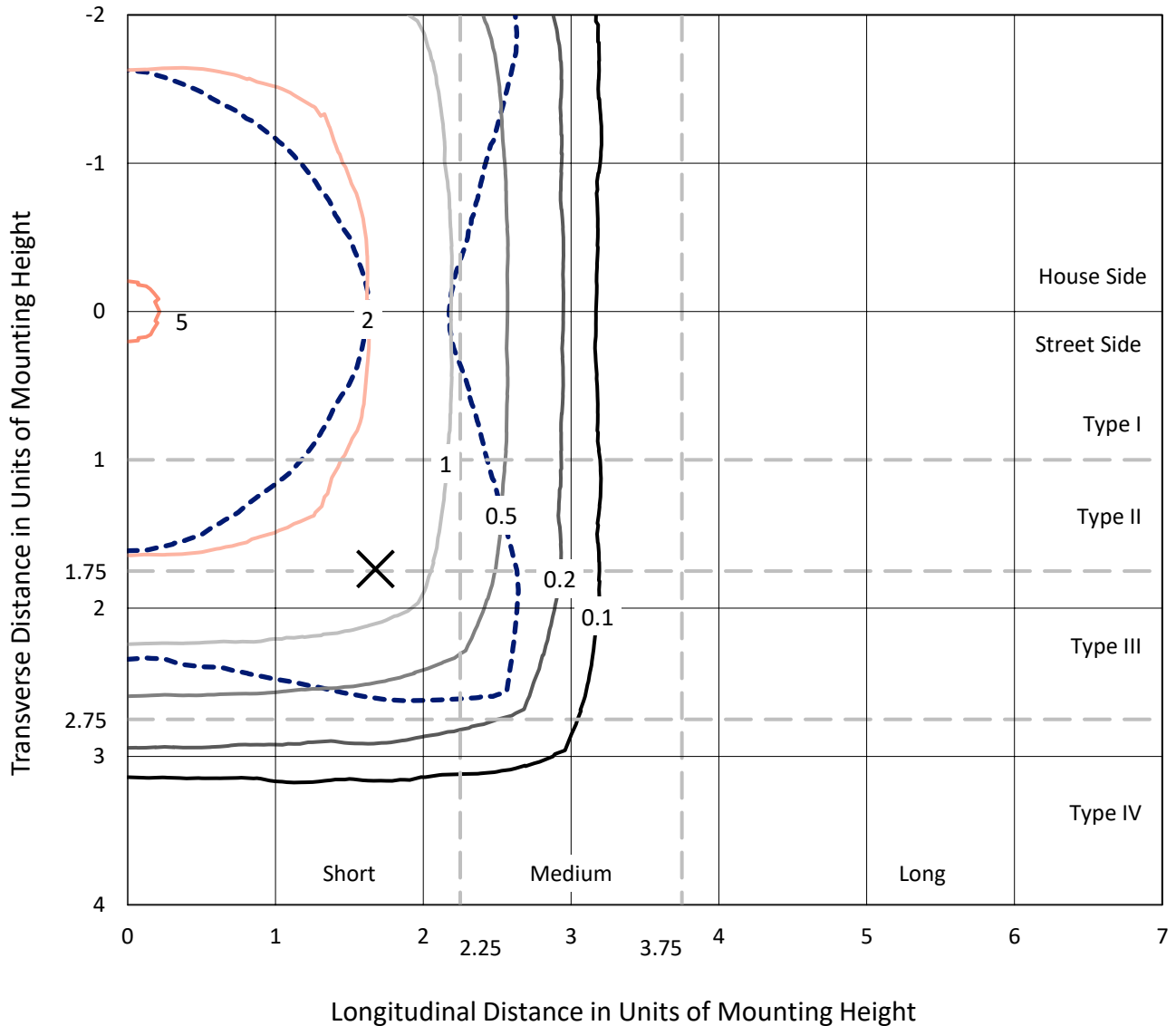
Lumens per Lamp: N/A  
Luminaire Lumens: 45278.4 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 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: P479511  
 CATALOG NUMBER: IFLD-L-SA7E-830-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

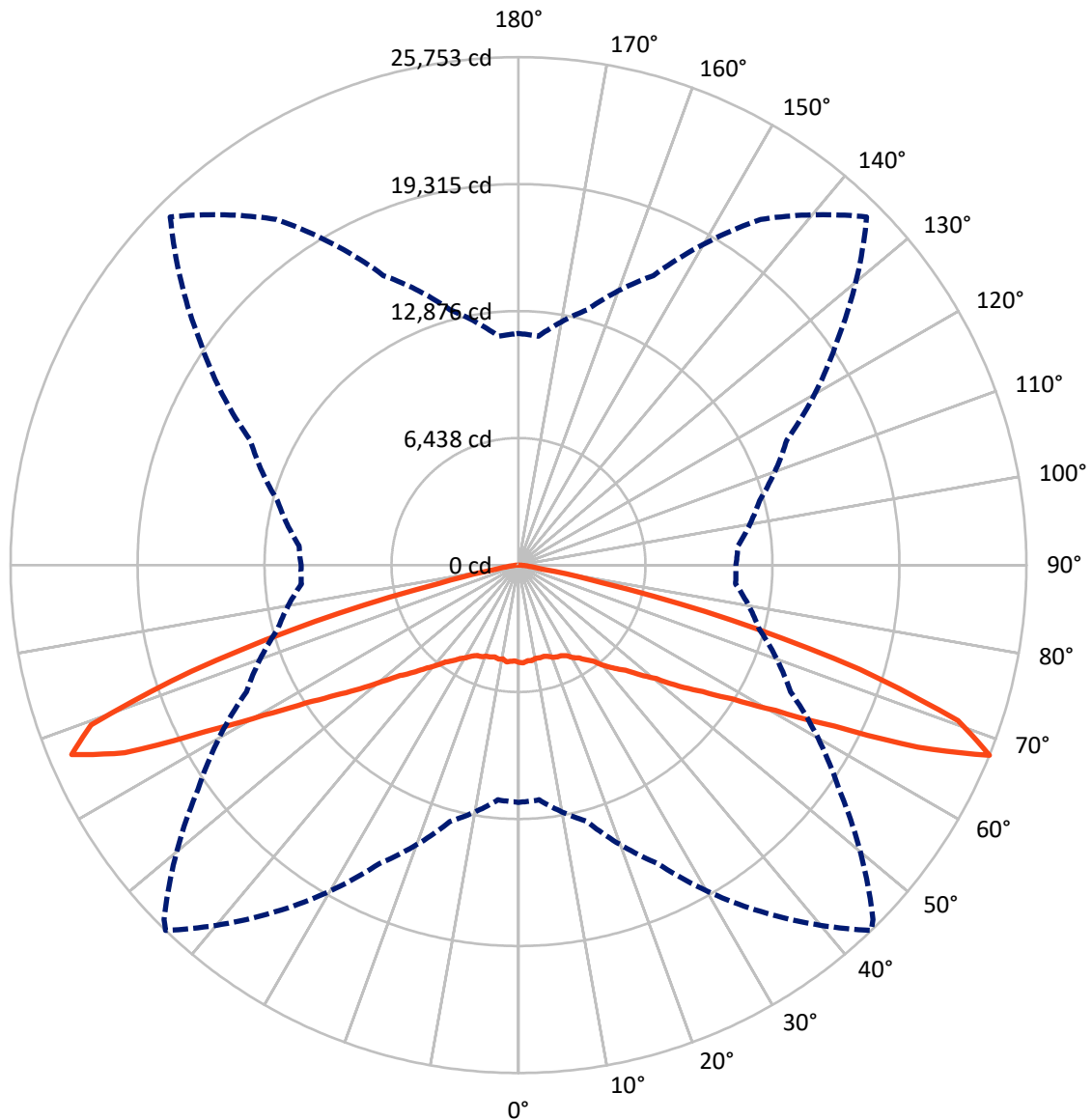
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P479511  
CATALOG NUMBER: IFLD-L-SA7E-830-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479511  
 CATALOG NUMBER: IFLD-L-SA7E-830-U-5MQ

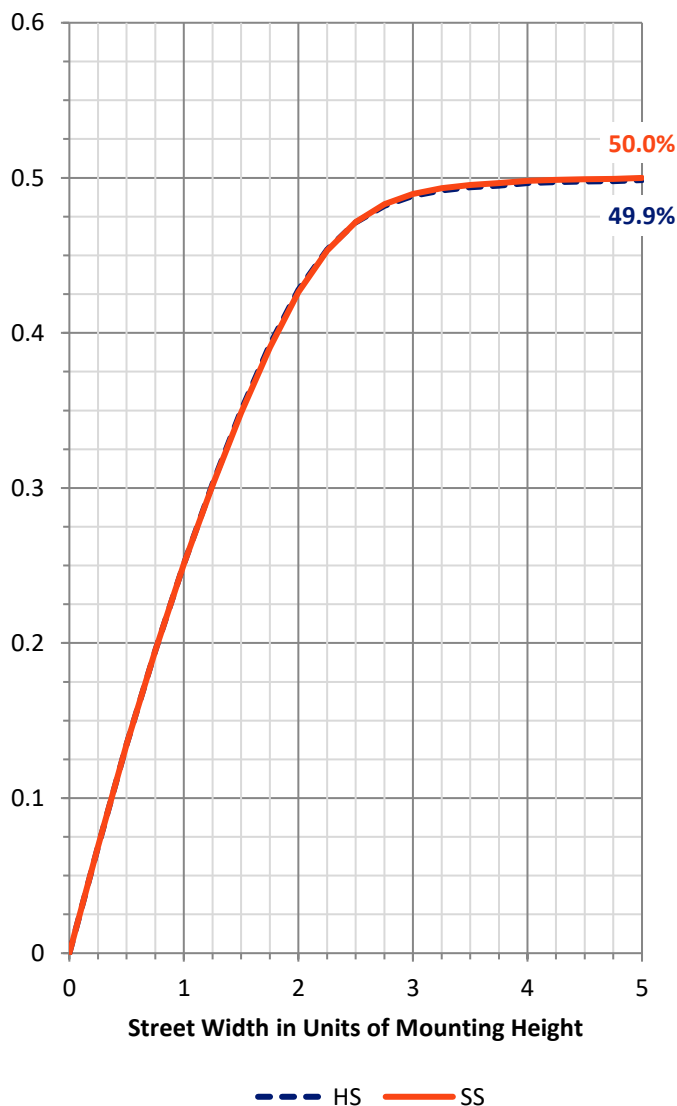
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22581.2	0.0	22581.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	22697.2	0.0	22697.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	45278.4	0.0	45278.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.0	1.0
10°-20°	1367.3	3.0
20°-30°	2325.2	5.1
30°-40°	3686.7	8.1
40°-50°	6011.5	13.3
50°-60°	10266.9	22.7
60°-70°	15615.8	34.5
70°-80°	5263.5	11.6
80°-90°	273.3	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°	45278.4	100.0
0°-180°	45278.4	100.0

**Coefficient of Utilization**



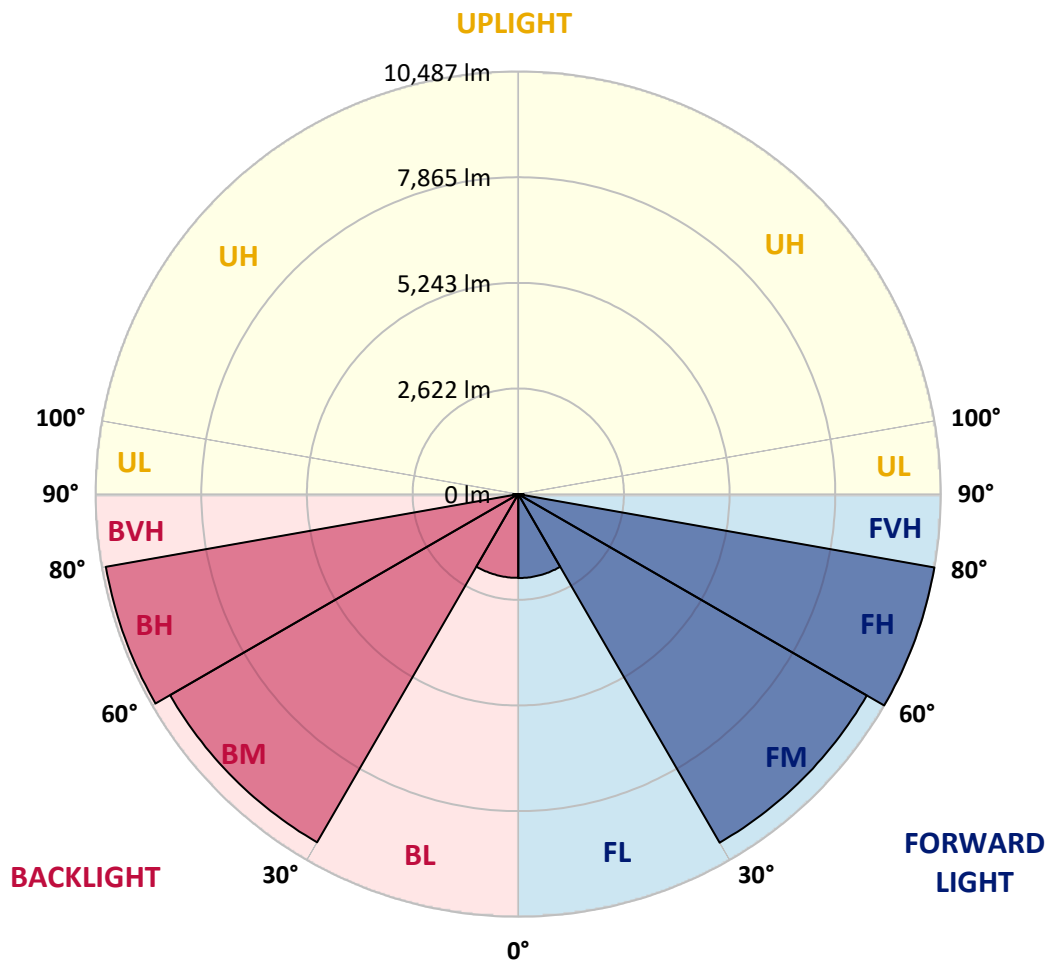
REPORT NUMBER: P479511  
 CATALOG NUMBER: IFLD-L-SA7E-830-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.4	4.6			
FM (30°-60°)	9988.0	22.1			
FH (60°-80°)	10486.9	23.2			G4/12000
FVH (80°-90°)	139.8	0.3			G2/225
BL (0°-30°)	2078.2	4.6	B3/2500		
BM (30°-60°)	9977.2	22.0	B5		
BH (60°-80°)	10392.4	23.0	B5		G4/12000
BVH (80°-90°)	133.5	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





REPORT NUMBER: P479511

CATALOG NUMBER: IFLD-L-SA7E-830-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9
2.5°	4832.2	4889.0	4930.4	4925.2	4940.7	4956.2	4935.5	4966.6	4945.9	4982.1	5002.7
5°	4925.2	4909.7	4914.9	4883.9	4956.2	4873.5	4873.5	4914.9	4966.6	4904.5	4940.7
7.5°	4868.4	4858.0	4832.2	4878.7	4894.2	4894.2	4935.5	4858.0	4945.9	4966.6	4971.7
10°	4806.3	4749.5	4827.0	4873.5	4883.9	4801.2	4837.3	4858.0	4832.2	4858.0	4873.5
12.5°	4754.7	4785.7	4785.7	4785.7	4770.2	4827.0	4863.2	4858.0	4806.3	4852.9	4770.2
15°	4749.5	4734.0	4780.5	4821.8	4796.0	4806.3	4821.8	4868.4	4770.2	4790.8	4790.8
17.5°	4744.3	4765.0	4780.5	4775.3	4863.2	4863.2	4847.7	4816.7	4894.2	4852.9	4796.0
20°	4765.0	4749.5	4790.8	4806.3	4868.4	4992.4	4945.9	4920.0	4878.7	4827.0	4827.0
22.5°	4790.8	4780.5	4837.3	4904.5	5023.4	5054.4	5049.2	5018.2	4945.9	4883.9	4873.5
25°	4883.9	4790.8	4852.9	4982.1	5023.4	5085.4	5126.8	5085.4	4987.2	5002.7	4909.7
27.5°	5023.4	5007.9	5090.6	5178.4	5142.3	5199.1	5162.9	5193.9	5199.1	5121.6	5028.6
30°	5188.8	5142.3	5193.9	5364.5	5380.0	5442.0	5380.0	5297.3	5323.2	5256.0	5209.5
32.5°	5426.5	5411.0	5509.2	5622.9	5643.6	5612.6	5581.6	5628.1	5519.5	5467.9	5385.2
35°	5581.6	5648.7	5767.6	5855.5	5922.7	5891.6	5907.1	5860.6	5886.5	5777.9	5741.8
37.5°	6041.5	6015.7	6041.5	6191.4	6206.9	6191.4	6206.9	6258.6	6222.4	6129.4	6036.4
40°	6475.6	6434.3	6496.3	6666.9	6656.5	6708.2	6604.8	6661.7	6661.7	6486.0	6449.8
42.5°	6801.2	6940.8	7013.1	7152.7	7204.3	7157.8	7137.2	7147.5	7261.2	7054.5	6976.9
45°	7473.1	7467.9	7685.0	7762.5	7617.8	7607.5	7566.1	7690.1	7767.7	7648.8	7617.8
47.5°	8201.8	8238.0	8362.0	8393.0	8480.9	8320.7	8320.7	8336.2	8610.1	8331.0	8186.3
50°	8858.1	8904.6	9152.7	9395.6	9230.2	9059.7	9126.9	9209.6	9359.4	9095.9	8971.8
52.5°	9654.0	9907.3	10072.6	10201.8	10320.7	10201.8	10046.8	10139.8	10434.4	10083.0	9927.9
55°	10801.3	11002.9	11157.9	11395.7	11493.9	11333.7	11318.2	11307.8	11473.2	11101.1	10889.2
57.5°	12083.0	12000.3	12248.4	12615.4	12972.0	12816.9	12770.4	12780.7	12822.1	12294.9	12134.7
60°	13674.8	13767.8	14062.4	14382.8	14760.1	14977.2	14672.3	14496.5	14532.7	13814.4	13566.3
62.5°	14584.4	14791.1	15457.8	16558.6	17318.3	17995.4	18041.9	16899.7	16134.8	14739.4	13685.1
65°	14145.1	14114.1	15370.0	17406.2	20284.8	22253.9	21959.3	19189.2	16517.3	14300.2	12884.1
67.5°	12031.4	11948.7	13468.1	16698.2	21452.8	25752.7	25416.8	19835.2	15225.2	12651.5	11049.4
70°	7752.2	7731.5	9380.1	12729.0	19153.0	23644.1	23768.1	18016.0	12393.1	9266.4	7679.8
72.5°	2816.6	2987.2	3943.3	6842.6	13008.1	18088.4	18165.9	13338.9	7126.8	4284.4	3157.7
75°	1038.8	1069.8	1245.5	2222.3	5927.8	11106.3	11395.7	6470.5	2532.4	1395.4	1137.0
77.5°	599.5	604.7	666.7	826.9	1757.2	4336.0	4511.8	1963.9	981.9	744.2	687.4
80°	408.3	403.1	470.3	537.5	702.9	1230.0	1307.5	821.7	620.2	516.8	434.1
82.5°	237.7	253.2	346.3	382.4	429.0	542.7	553.0	511.6	465.1	382.4	284.2
85°	144.7	118.9	191.2	211.9	248.1	242.9	242.9	279.1	299.8	268.7	160.2
87.5°	36.2	36.2	46.5	51.7	67.2	51.7	56.8	108.5	144.7	134.4	82.7
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: P479511  
 CATALOG NUMBER: IFLD-L-SA7E-830-U-5MQ

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9	4945.9
2.5°	4956.2	4940.7	4951.0	5007.9	4971.7	4863.2	4889.0	4945.9	4899.4	4873.5	4868.4
5°	4935.5	4966.6	4930.4	4940.7	4976.9	4889.0	4904.5	4976.9	4945.9	4956.2	4899.4
7.5°	4940.7	4956.2	4925.2	4878.7	4878.7	4951.0	4909.7	4920.0	4873.5	4951.0	4847.7
10°	4909.7	4868.4	4832.2	4858.0	4847.7	4827.0	4811.5	4842.5	4796.0	4863.2	4790.8
12.5°	4816.7	4827.0	4816.7	4806.3	4827.0	4878.7	4796.0	4806.3	4734.0	4744.3	4780.5
15°	4780.5	4811.5	4801.2	4858.0	4883.9	4806.3	4868.4	4806.3	4749.5	4718.5	4775.3
17.5°	4796.0	4842.5	4827.0	4868.4	4821.8	4878.7	4889.0	4863.2	4796.0	4770.2	4796.0
20°	4811.5	4796.0	4816.7	4889.0	4956.2	4899.4	4899.4	4883.9	4821.8	4785.7	4785.7
22.5°	4847.7	4821.8	4852.9	4909.7	4930.4	5018.2	4940.7	4904.5	4801.2	4708.1	4796.0
25°	4920.0	4935.5	4956.2	4935.5	5049.2	5038.9	5028.6	5002.7	4842.5	4847.7	4832.2
27.5°	5059.6	4971.7	4997.6	5121.6	5137.1	5178.4	5126.8	5173.3	5002.7	5007.9	4904.5
30°	5230.1	5137.1	5219.8	5328.3	5323.2	5400.7	5374.8	5385.2	5266.3	5199.1	5059.6
32.5°	5416.2	5405.8	5457.5	5524.7	5550.5	5591.9	5586.7	5586.7	5514.4	5338.7	5364.5
35°	5622.9	5695.3	5757.3	5829.6	5840.0	5891.6	5819.3	5829.6	5757.3	5628.1	5669.4
37.5°	6031.2	6026.0	6093.2	6181.1	6191.4	6150.0	6206.9	6181.1	6082.9	5995.0	5927.8
40°	6506.6	6403.3	6465.3	6672.0	6687.5	6615.2	6610.0	6604.8	6532.5	6341.3	6299.9
42.5°	6920.1	7054.5	7044.1	7111.3	7064.8	7028.6	7157.8	7085.5	7028.6	6827.1	6790.9
45°	7452.4	7493.8	7628.1	7845.2	7623.0	7623.0	7710.8	7654.0	7623.0	7473.1	7333.5
47.5°	8113.9	8150.1	8418.8	8434.4	8289.6	8191.5	8465.4	8475.7	8346.5	8232.8	8062.2
50°	8889.1	8904.6	9147.6	9395.6	9235.4	9049.4	9328.4	9437.0	9147.6	8992.5	8780.6
52.5°	9741.9	9695.4	9896.9	10362.1	10207.0	10150.2	10449.9	10475.8	10083.0	9840.1	9896.9
55°	10723.8	10661.8	11209.6	11524.9	11426.7	11323.3	11457.7	11519.7	11204.5	10806.5	10946.1
57.5°	11995.2	12026.2	12300.1	12610.2	12770.4	12796.2	12858.3	12796.2	12475.8	12072.7	11943.5
60°	13266.5	13359.6	13891.9	14475.9	14527.6	14982.3	14899.7	14589.6	14134.8	13561.1	13587.0
62.5°	13736.8	13659.3	14517.2	15943.6	17158.1	17990.2	17623.2	16522.4	15468.1	14424.2	14501.7
65°	12791.1	12982.3	14150.3	16382.9	19018.6	22310.7	20357.2	17313.2	15183.9	13835.0	13685.1
67.5°	11023.6	11168.3	12651.5	15008.2	19685.3	24967.1	21390.8	16196.9	13390.6	11643.7	11736.8
70°	7679.8	7752.2	9204.4	12294.9	17850.6	23561.4	19297.7	12439.6	9245.7	7369.7	7473.1
72.5°	3090.5	3266.2	4222.3	7405.9	13178.7	17902.3	12992.6	6527.3	3834.7	2852.8	2589.2
75°	1142.2	1147.3	1348.9	2547.9	6258.6	11251.0	5860.6	2098.3	1224.8	1002.6	956.1
77.5°	661.5	656.3	702.9	919.9	1814.0	4392.9	1664.1	821.7	666.7	599.5	573.7
80°	413.4	408.3	480.6	609.8	795.9	1204.2	702.9	511.6	449.6	387.6	387.6
82.5°	263.6	268.7	377.3	449.6	485.8	532.3	408.3	361.8	335.9	222.2	217.1
85°	170.5	155.0	263.6	299.8	268.7	237.7	227.4	191.2	175.7	108.5	118.9
87.5°	77.5	82.7	134.4	149.9	98.2	56.8	56.8	41.3	41.3	25.8	25.8
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)