

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: P479278

Luminaire Tested: **IFLD-L-SA8A-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

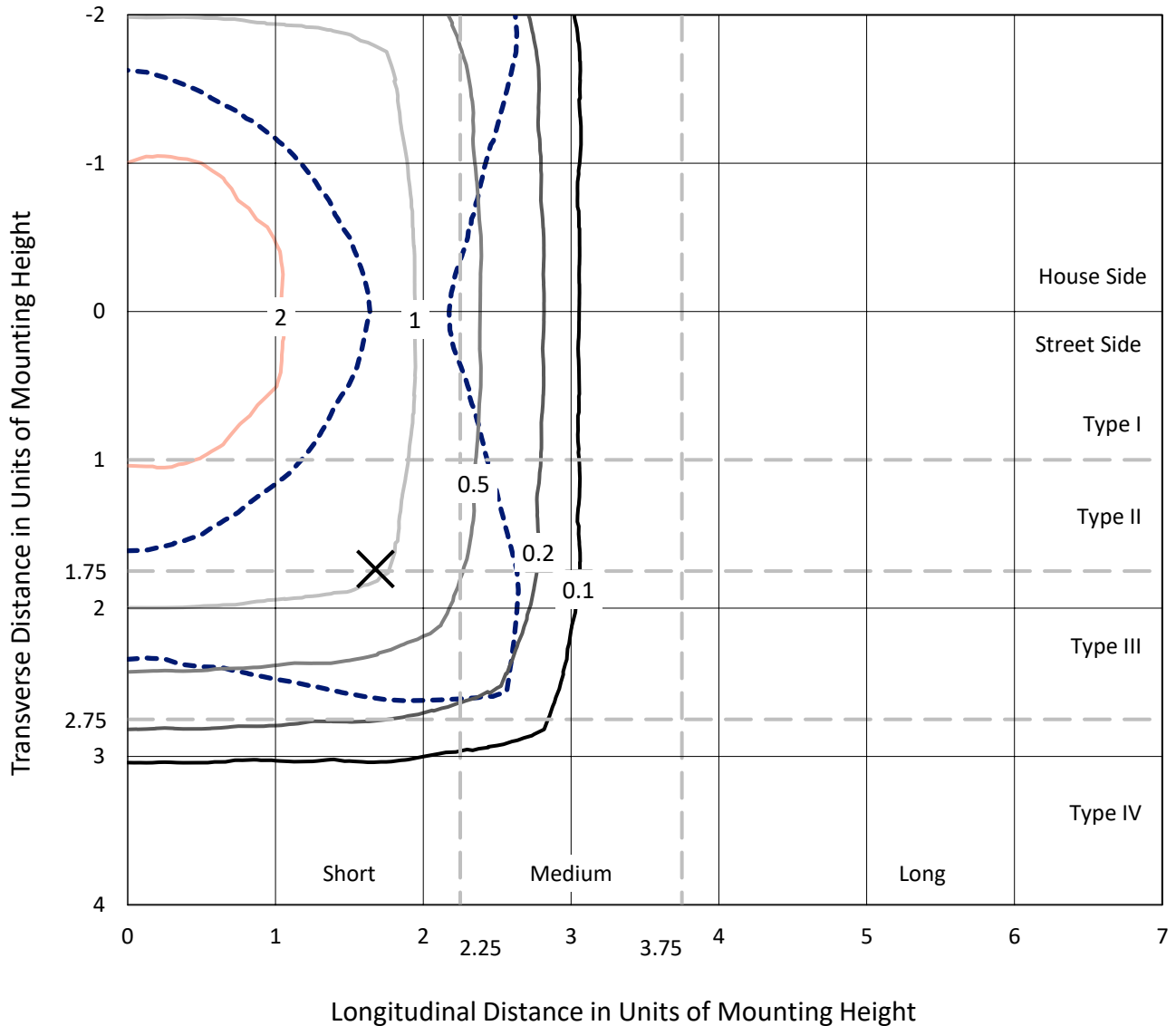
Lumens per Lamp: N/A
Luminaire Lumens: 31487.2 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 247.8
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: P479278
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

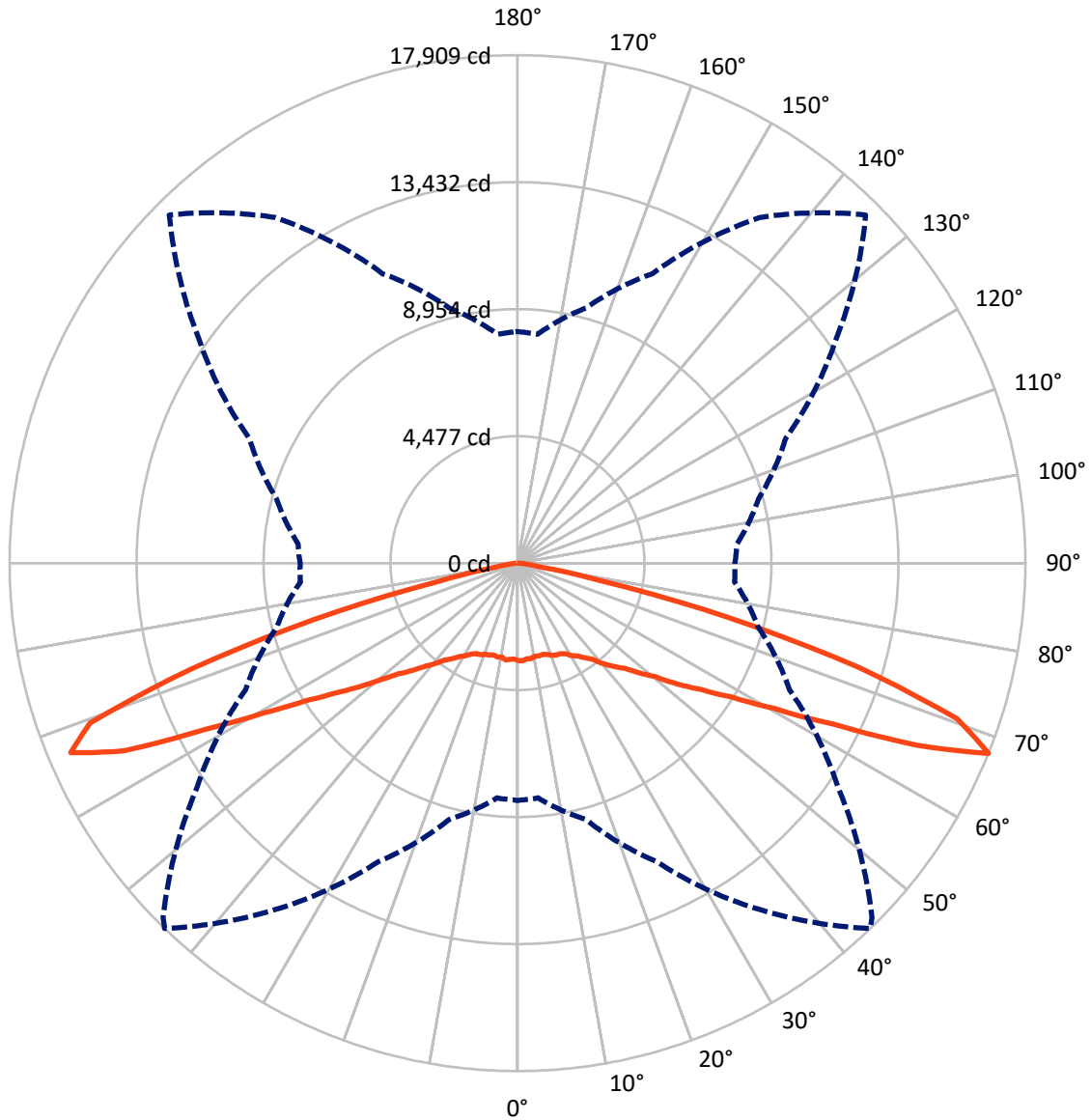
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P479278
CATALOG NUMBER: IFLD-L-SA8A-730-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479278
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15703.3	0.0	15703.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	15783.9	0.0	15783.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	31487.2	0.0	31487.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	1.0
10°-20°	950.9	3.0
20°-30°	1617.0	5.1
30°-40°	2563.8	8.1
40°-50°	4180.5	13.3
50°-60°	7139.7	22.7
60°-70°	10859.5	34.5
70°-80°	3660.3	11.6
80°-90°	190.0	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°	31487.2	100.0
0°-180°	31487.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479278

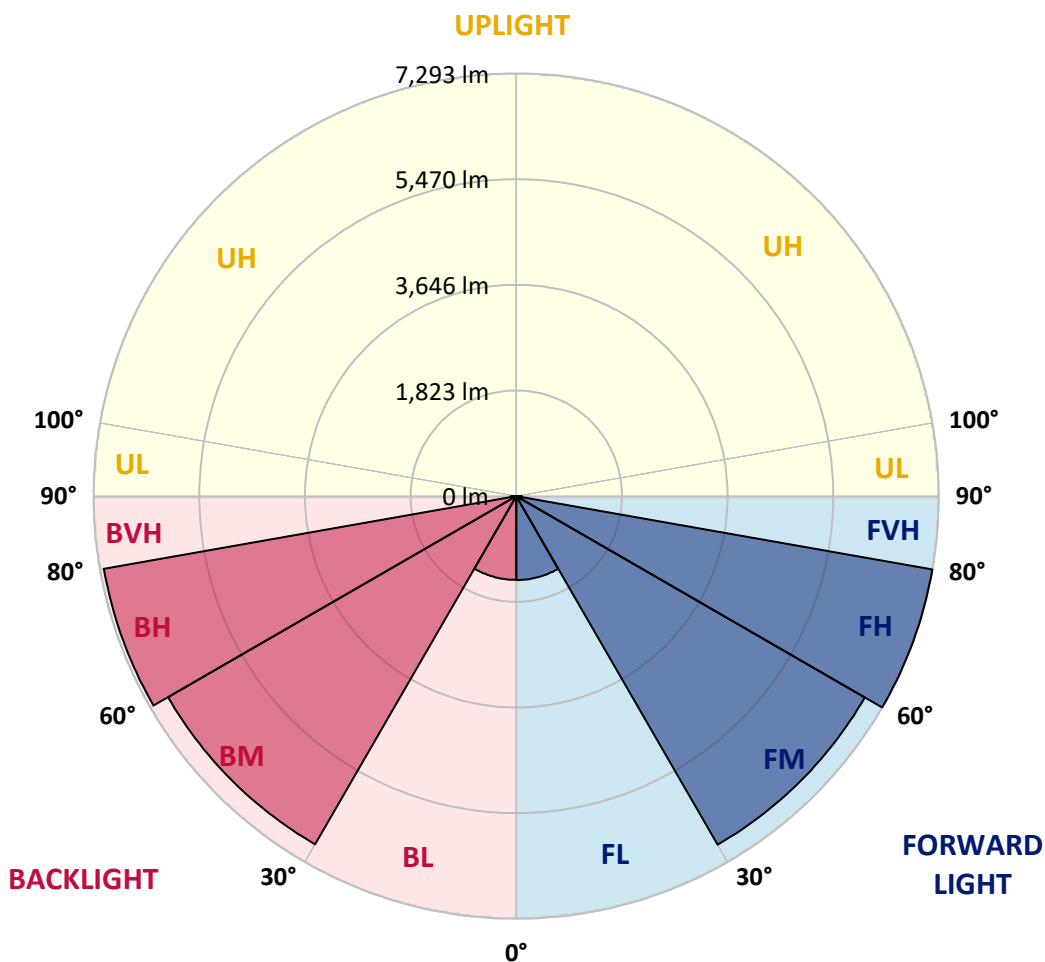
CATALOG NUMBER: IFLD-L-SA8A-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.1	4.6			
FM (30°-60°)	6945.8	22.1			
FH (60°-80°)	7292.8	23.2			G3/7500
FVH (80°-90°)	97.2	0.3			G1/100
BL (0°-30°)	1445.2	4.6	B3/2500		
BM (30°-60°)	6938.3	22.0	B4/8500		
BH (60°-80°)	7227.0	23.0	B5		G3/7500
BVH (80°-90°)	92.8	0.3			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: P479278
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4
2.5°	3360.4	3399.9	3428.7	3425.1	3435.8	3446.6	3432.2	3453.8	3439.4	3464.6	3479.0
5°	3425.1	3414.3	3417.9	3396.3	3446.6	3389.1	3389.1	3417.9	3453.8	3410.7	3435.8
7.5°	3385.5	3378.3	3360.4	3392.7	3403.5	3403.5	3432.2	3378.3	3439.4	3453.8	3457.4
10°	3342.4	3302.9	3356.8	3389.1	3396.3	3338.8	3364.0	3378.3	3360.4	3378.3	3389.1
12.5°	3306.5	3328.0	3328.0	3328.0	3317.2	3356.8	3381.9	3378.3	3342.4	3374.7	3317.2
15°	3302.9	3292.1	3324.4	3353.2	3335.2	3342.4	3353.2	3385.5	3317.2	3331.6	3331.6
17.5°	3299.3	3313.6	3324.4	3320.8	3381.9	3381.9	3371.2	3349.6	3403.5	3374.7	3335.2
20°	3313.6	3302.9	3331.6	3342.4	3385.5	3471.8	3439.4	3421.5	3392.7	3356.8	3356.8
22.5°	3331.6	3324.4	3364.0	3410.7	3493.3	3514.9	3511.3	3489.8	3439.4	3396.3	3389.1
25°	3396.3	3331.6	3374.7	3464.6	3493.3	3536.5	3565.2	3536.5	3468.2	3479.0	3414.3
27.5°	3493.3	3482.6	3540.1	3601.2	3576.0	3615.5	3590.4	3611.9	3615.5	3561.6	3496.9
30°	3608.4	3576.0	3611.9	3730.5	3741.3	3784.5	3741.3	3683.8	3701.8	3655.1	3622.7
32.5°	3773.7	3762.9	3831.2	3910.2	3924.6	3903.1	3881.5	3913.8	3838.4	3802.4	3744.9
35°	3881.5	3928.2	4010.9	4072.0	4118.7	4097.1	4107.9	4075.6	4093.5	4018.1	3992.9
37.5°	4201.4	4183.4	4201.4	4305.6	4316.4	4305.6	4316.4	4352.3	4327.1	4262.5	4197.8
40°	4503.3	4474.5	4517.6	4636.2	4629.0	4665.0	4593.1	4632.6	4632.6	4510.4	4485.3
42.5°	4729.7	4826.7	4877.0	4974.1	5010.0	4977.7	4963.3	4970.5	5049.5	4905.8	4851.9
45°	5196.9	5193.3	5344.2	5398.2	5297.5	5290.3	5261.6	5347.8	5401.7	5319.1	5297.5
47.5°	5703.6	5728.8	5815.1	5836.6	5897.7	5786.3	5786.3	5797.1	5987.6	5793.5	5692.9
50°	6160.1	6192.4	6364.9	6533.9	6418.8	6300.2	6347.0	6404.5	6508.7	6325.4	6239.1
52.5°	6713.5	6889.7	7004.7	7094.5	7177.2	7094.5	6986.7	7051.4	7256.2	7011.8	6904.0
55°	7511.4	7651.6	7759.4	7924.7	7993.0	7881.6	7870.8	7863.6	7978.6	7719.9	7572.5
57.5°	8402.7	8345.2	8517.7	8772.9	9020.9	8913.1	8880.7	8887.9	8916.7	8550.1	8438.7
60°	9509.7	9574.4	9779.2	10002.0	10264.4	10415.3	10203.3	10081.1	10106.3	9606.7	9434.2
62.5°	10142.2	10286.0	10749.6	11515.1	12043.4	12514.2	12546.6	11752.3	11220.4	10250.0	9516.9
65°	9836.7	9815.2	10688.5	12104.5	14106.4	15475.7	15270.8	13344.4	11486.4	9944.5	8959.8
67.5°	8366.8	8309.3	9365.9	11612.1	14918.6	17908.8	17675.2	13793.7	10587.9	8798.1	7683.9
70°	5391.0	5376.6	6523.1	8852.0	13319.3	16442.4	16528.7	12528.6	8618.4	6444.0	5340.7
72.5°	1958.7	2077.3	2742.2	4758.4	9046.0	12578.9	12632.8	9276.1	4956.1	2979.4	2195.9
75°	722.4	744.0	866.1	1545.4	4122.3	7723.5	7924.7	4499.7	1761.0	970.4	790.7
77.5°	416.9	420.5	463.6	575.0	1222.0	3015.3	3137.5	1365.7	682.9	517.5	478.0
80°	283.9	280.3	327.1	373.8	488.8	855.4	909.3	571.4	431.3	359.4	301.9
82.5°	165.3	176.1	240.8	266.0	298.3	377.4	384.6	355.8	323.5	266.0	197.7
85°	100.6	82.7	133.0	147.4	172.5	168.9	168.9	194.1	208.5	186.9	111.4
87.5°	25.2	25.2	32.3	35.9	46.7	35.9	39.5	75.5	100.6	93.4	57.5
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: P479278
 CATALOG NUMBER: IFLD-L-SA8A-730-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4
2.5°	3446.6	3435.8	3443.0	3482.6	3457.4	3381.9	3399.9	3439.4	3407.1	3389.1	3385.5
5°	3432.2	3453.8	3428.7	3435.8	3461.0	3399.9	3410.7	3461.0	3439.4	3446.6	3407.1
7.5°	3435.8	3446.6	3425.1	3392.7	3392.7	3443.0	3414.3	3421.5	3389.1	3443.0	3371.2
10°	3414.3	3385.5	3360.4	3378.3	3371.2	3356.8	3346.0	3367.6	3335.2	3381.9	3331.6
12.5°	3349.6	3356.8	3349.6	3342.4	3356.8	3392.7	3335.2	3342.4	3292.1	3299.3	3324.4
15°	3324.4	3346.0	3338.8	3378.3	3396.3	3342.4	3385.5	3342.4	3302.9	3281.3	3320.8
17.5°	3335.2	3367.6	3356.8	3385.5	3353.2	3392.7	3399.9	3381.9	3335.2	3317.2	3335.2
20°	3346.0	3335.2	3349.6	3399.9	3446.6	3407.1	3407.1	3396.3	3353.2	3328.0	3328.0
22.5°	3371.2	3353.2	3374.7	3414.3	3428.7	3489.8	3435.8	3410.7	3338.8	3274.1	3335.2
25°	3421.5	3432.2	3446.6	3432.2	3511.3	3504.1	3496.9	3479.0	3367.6	3371.2	3360.4
27.5°	3518.5	3457.4	3475.4	3561.6	3572.4	3601.2	3565.2	3597.6	3479.0	3482.6	3410.7
30°	3637.1	3572.4	3629.9	3705.4	3701.8	3755.7	3737.7	3744.9	3662.3	3615.5	3518.5
32.5°	3766.5	3759.3	3795.2	3842.0	3859.9	3888.7	3885.1	3885.1	3834.8	3712.6	3730.5
35°	3910.2	3960.6	4003.7	4054.0	4061.2	4097.1	4046.8	4054.0	4003.7	3913.8	3942.6
37.5°	4194.2	4190.6	4237.3	4298.4	4305.6	4276.8	4316.4	4298.4	4230.1	4169.0	4122.3
40°	4524.8	4452.9	4496.1	4639.8	4650.6	4600.3	4596.7	4593.1	4542.8	4409.8	4381.1
42.5°	4812.3	4905.8	4898.6	4945.3	4913.0	4887.8	4977.7	4927.3	4887.8	4747.6	4722.5
45°	5182.5	5211.3	5304.7	5455.7	5301.1	5301.1	5362.2	5322.7	5301.1	5196.9	5099.9
47.5°	5642.5	5667.7	5854.6	5865.4	5764.7	5696.5	5886.9	5894.1	5804.3	5725.2	5606.6
50°	6181.6	6192.4	6361.3	6533.9	6422.4	6293.1	6487.1	6562.6	6361.3	6253.5	6106.2
52.5°	6774.6	6742.3	6882.5	7205.9	7098.1	7058.6	7267.0	7285.0	7011.8	6842.9	6882.5
55°	7457.5	7414.4	7795.3	8014.6	7946.3	7874.4	7967.8	8011.0	7791.7	7515.0	7612.0
57.5°	8341.6	8363.2	8553.7	8769.3	8880.7	8898.7	8941.8	8898.7	8675.9	8395.5	8305.7
60°	9225.7	9290.4	9660.6	10066.7	10102.7	10418.9	10361.4	10145.8	9829.5	9430.6	9448.6
62.5°	9552.8	9498.9	10095.5	11087.4	11932.0	12510.6	12255.5	11489.9	10756.8	10030.8	10084.7
65°	8895.1	9028.1	9840.3	11392.9	13225.8	15515.2	14156.7	12039.8	10559.1	9621.1	9516.9
67.5°	7666.0	7766.6	8798.1	10436.9	13689.5	17362.5	14875.5	11263.5	9312.0	8097.2	8161.9
70°	5340.7	5391.0	6400.9	8550.1	12413.6	16384.9	13419.9	8650.7	6429.6	5125.0	5196.9
72.5°	2149.2	2271.4	2936.3	5150.2	9164.6	12449.5	9035.3	4539.2	2666.7	1983.9	1800.6
75°	794.3	797.9	938.0	1771.8	4352.3	7824.1	4075.6	1459.2	851.8	697.2	664.9
77.5°	460.0	456.4	488.8	639.7	1261.5	3054.9	1157.3	571.4	463.6	416.9	398.9
80°	287.5	283.9	334.2	424.1	553.5	837.4	488.8	355.8	312.7	269.5	269.5
82.5°	183.3	186.9	262.4	312.7	337.8	370.2	283.9	251.6	233.6	154.5	150.9
85°	118.6	107.8	183.3	208.5	186.9	165.3	158.1	133.0	122.2	75.5	82.7
87.5°	53.9	57.5	93.4	104.2	68.3	39.5	39.5	28.8	28.8	18.0	18.0
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)