

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: P478883

Luminaire Tested: **IFLD-L-SA7A-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478883
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

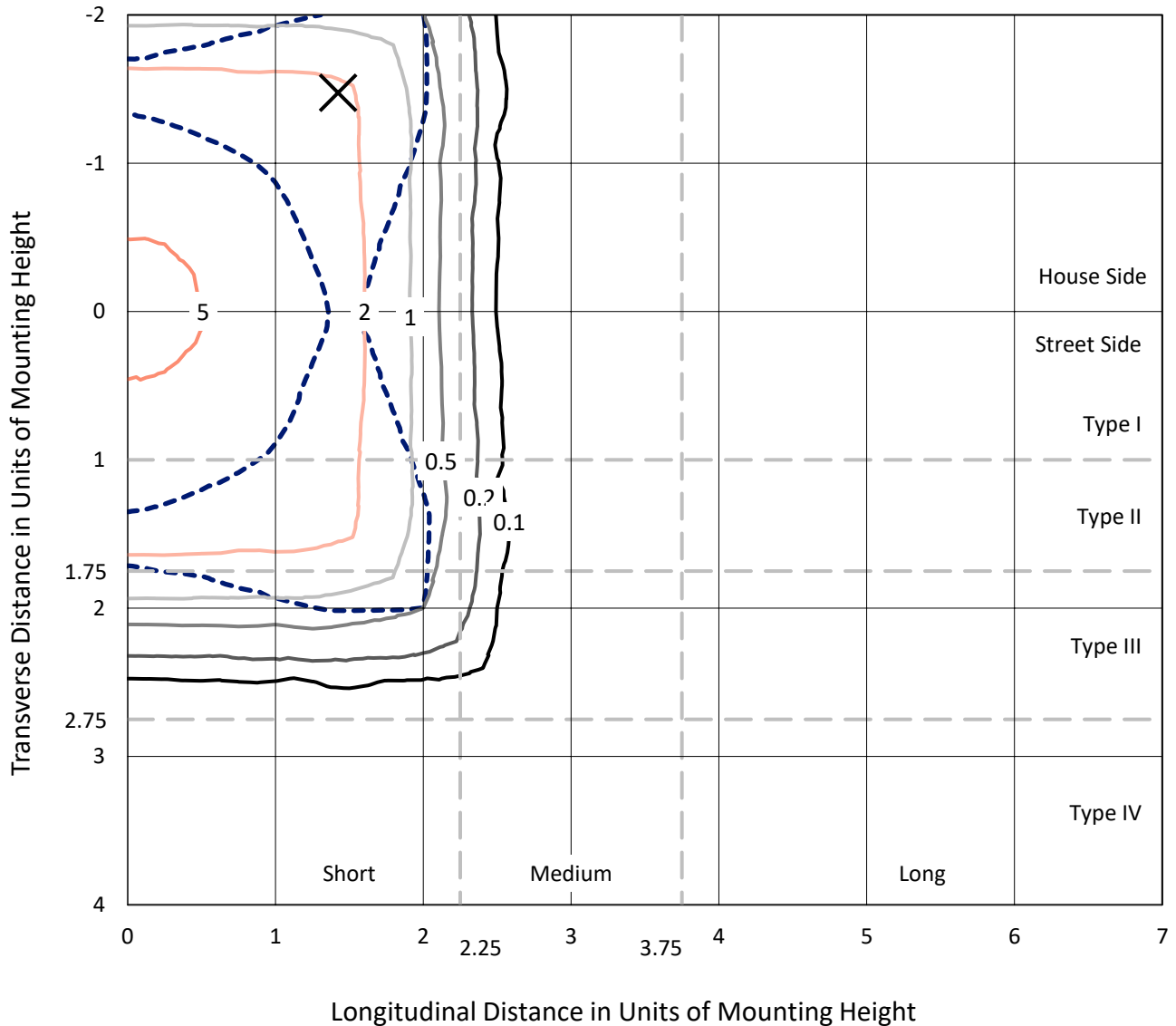
Lumens per Lamp: N/A
Luminaire Lumens: 28427.4 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 217.6
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: P478883
 CATALOG NUMBER: IFLD-L-SA7A-730-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

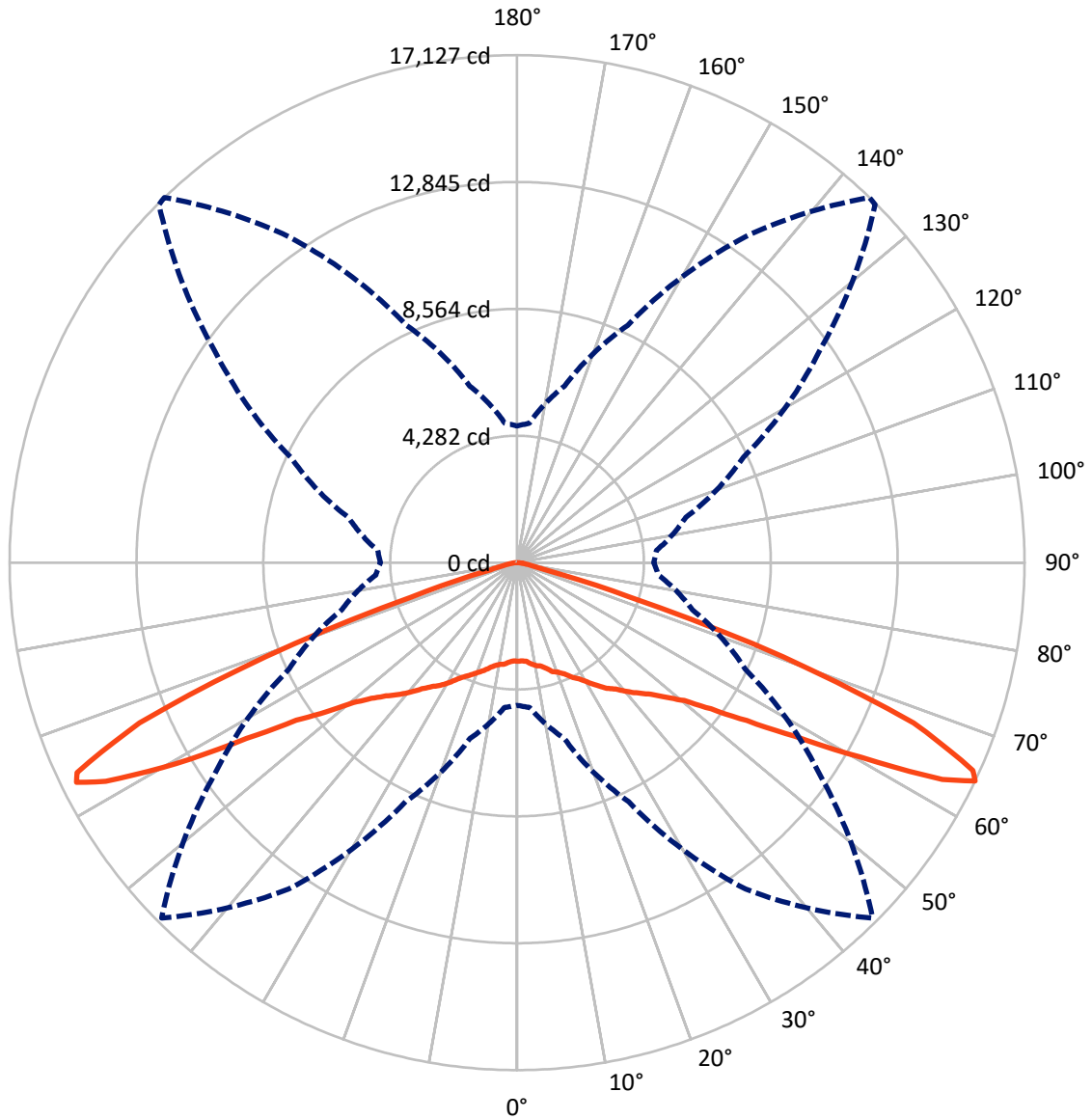
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

REPORT NUMBER: P478883
CATALOG NUMBER: IFLD-L-SA7A-730-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478883

CATALOG NUMBER: IFLD-L-SA7A-730-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14227.2	0.0	14227.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14200.2	0.0	14200.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28427.4	0.0	28427.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.0	1.2
10°-20°	1054.0	3.7
20°-30°	1980.9	7.0
30°-40°	3266.9	11.5
40°-50°	5109.2	18.0
50°-60°	8255.2	29.0
60°-70°	7433.2	26.1
70°-80°	880.5	3.1
80°-90°	120.5	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°	28427.4	100.0
0°-180°	28427.4	100.0

Coefficient of Utilization



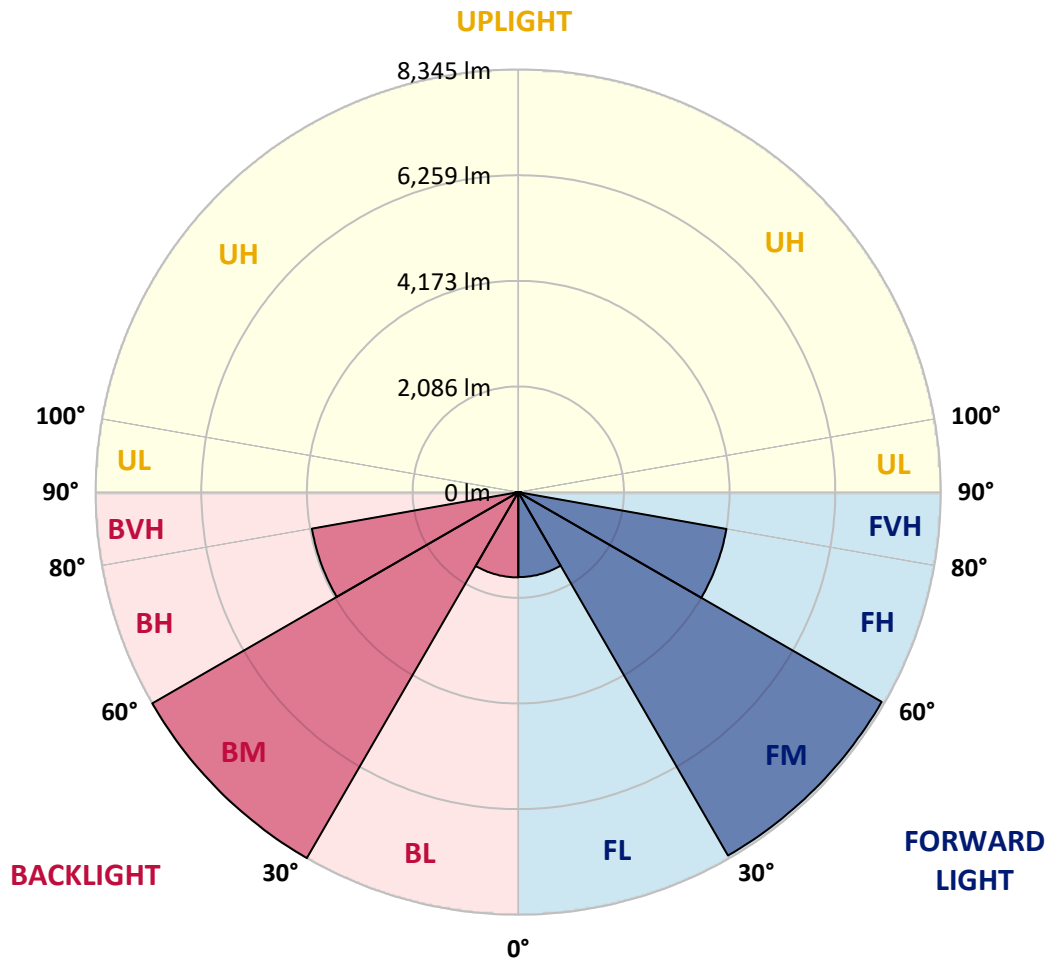
REPORT NUMBER: P478883
 CATALOG NUMBER: IFLD-L-SA7A-730-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.7	5.9			
FM (30°-60°)	8285.7	29.1			
FH (60°-80°)	4174.9	14.7			G2/5000
FVH (80°-90°)	61.8	0.2			G1/100
BL (0°-30°)	1684.2	5.9	B3/2500		
BM (30°-60°)	8345.5	29.4	B4/8500		
BH (60°-80°)	4138.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	58.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P478883

CATALOG NUMBER: IFLD-L-SA7A-730-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3
2.5°	3289.1	3295.7	3354.3	3331.5	3351.1	3315.2	3341.3	3396.7	3331.5	3380.4	3396.7
5°	3325.0	3334.8	3334.8	3357.6	3370.6	3364.1	3380.4	3357.6	3419.5	3393.5	3432.6
7.5°	3455.4	3439.1	3413.0	3432.6	3435.8	3452.1	3468.4	3497.8	3488.0	3465.2	3504.3
10°	3478.2	3465.2	3504.3	3507.6	3491.3	3478.2	3494.5	3494.5	3523.9	3530.4	3530.4
12.5°	3517.3	3530.4	3527.1	3553.2	3556.4	3546.7	3572.7	3621.6	3608.6	3618.4	3595.6
15°	3667.3	3651.0	3647.7	3673.8	3716.2	3654.2	3699.9	3696.6	3683.6	3703.1	3651.0
17.5°	3797.7	3745.5	3768.3	3810.7	3794.4	3807.5	3866.1	3814.0	3827.0	3804.2	3787.9
20°	3911.8	3869.4	3872.7	3888.9	3888.9	3928.1	3950.9	3931.3	3918.3	3915.0	3921.5
22.5°	4038.9	3990.0	3993.3	4061.7	4084.5	4071.5	4055.2	4087.8	4094.3	4068.2	4097.6
25°	4133.4	4185.6	4201.9	4234.5	4185.6	4221.5	4208.4	4270.3	4309.5	4257.3	4293.2
27.5°	4381.2	4358.4	4400.7	4397.5	4436.6	4400.7	4423.6	4443.1	4459.4	4462.7	4446.4
30°	4602.8	4612.6	4570.2	4684.3	4593.1	4651.7	4690.9	4700.6	4720.2	4720.2	4671.3
32.5°	4837.6	4818.0	4886.5	4860.4	4844.1	4889.7	4847.3	4981.0	4902.7	4948.4	4893.0
35°	5101.6	5101.6	5127.7	5199.4	5101.6	5072.3	5150.5	5205.9	5205.9	5124.4	5144.0
37.5°	5398.2	5372.2	5404.8	5496.0	5421.1	5323.3	5466.7	5489.5	5473.2	5450.4	5411.3
40°	5606.9	5600.3	5665.5	5786.2	5678.6	5659.0	5685.1	5747.0	5766.6	5789.4	5737.3
42.5°	5958.9	5988.3	6177.3	6148.0	6060.0	5991.5	5985.0	6216.5	6161.0	6102.4	6073.0
45°	6480.5	6454.4	6552.2	6555.5	6441.4	6291.4	6324.0	6535.9	6630.4	6500.1	6549.0
47.5°	6894.5	6907.5	6976.0	7116.2	6852.1	6695.6	6816.3	7158.5	7129.2	7080.3	7125.9
50°	7448.7	7507.3	7722.5	7673.6	7438.9	7246.6	7510.6	7833.3	7869.2	7689.9	7657.3
52.5°	8214.7	8306.0	8423.3	8462.5	8237.5	8169.1	8185.4	8586.3	8498.3	8325.5	8214.7
55°	8886.2	8928.6	9143.8	9466.5	9450.2	9120.9	9310.0	9460.0	9101.4	8746.1	8775.4
57.5°	9173.1	9192.7	9792.5	10437.9	10822.6	10897.5	10682.4	10177.1	9323.0	8638.5	8596.1
60°	8459.2	8645.0	9368.7	10825.8	12582.9	13450.0	12018.9	10258.6	8804.7	7973.5	7911.6
62.5°	6760.8	6770.6	7846.4	10056.5	13678.2	15950.2	12530.7	9492.6	7422.6	6480.5	6232.8
64°	4814.7	4906.0	6141.5	8902.5	13450.0	16967.3	12468.8	8491.8	6118.7	4782.1	4609.4
65°	3455.4	3582.5	4775.6	7729.0	12915.4	16846.7	12283.0	7631.2	4948.4	3651.0	3475.0
67.5°	1271.3	1323.5	1874.4	3866.1	9274.2	14356.2	9733.8	4195.4	2174.3	1548.4	1391.9
70°	590.0	593.3	694.3	1277.8	4055.2	9600.1	4645.2	1574.5	818.2	648.7	603.1
72.5°	433.6	443.3	485.7	590.0	1193.1	4065.0	1525.6	645.4	479.2	423.8	414.0
75°	352.1	358.6	371.6	427.0	550.9	1088.8	619.4	446.6	381.4	342.3	329.2
77.5°	270.6	270.6	299.9	326.0	365.1	508.5	410.7	355.3	309.7	270.6	260.8
80°	195.6	198.8	234.7	254.3	247.7	335.8	296.6	293.4	254.3	211.9	195.6
82.5°	114.1	123.9	169.5	182.5	176.0	198.8	215.1	228.2	198.8	146.7	133.7
85°	65.2	68.5	97.8	101.1	101.1	94.5	123.9	136.9	133.7	91.3	81.5
87.5°	19.6	19.6	26.1	26.1	29.3	32.6	48.9	58.7	65.2	45.6	42.4
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: P478883
 CATALOG NUMBER: IFLD-L-SA7A-730-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3	3328.3
2.5°	3380.4	3331.5	3334.8	3347.8	3305.4	3321.7	3370.6	3334.8	3325.0	3305.4	3295.7
5°	3364.1	3416.3	3396.7	3403.2	3393.5	3347.8	3341.3	3370.6	3386.9	3357.6	3416.3
7.5°	3478.2	3455.4	3429.3	3439.1	3416.3	3455.4	3481.5	3422.8	3452.1	3435.8	3403.2
10°	3543.4	3501.0	3520.6	3514.1	3497.8	3536.9	3510.8	3504.3	3478.2	3442.4	3494.5
12.5°	3566.2	3615.1	3647.7	3592.3	3602.1	3582.5	3566.2	3566.2	3536.9	3527.1	3536.9
15°	3667.3	3709.7	3696.6	3739.0	3683.6	3703.1	3722.7	3673.8	3699.9	3628.2	3683.6
17.5°	3853.1	3817.2	3862.9	3807.5	3827.0	3866.1	3804.2	3804.2	3823.8	3784.6	3735.7
20°	3970.4	3954.1	3937.8	3941.1	3908.5	3944.4	3924.8	3915.0	3885.7	3898.7	3924.8
22.5°	4081.3	4058.5	4065.0	4074.8	4097.6	4081.3	4071.5	4081.3	4009.6	4074.8	3983.5
25°	4218.2	4280.1	4260.6	4302.9	4237.7	4280.1	4276.9	4214.9	4254.0	4228.0	4208.4
27.5°	4446.4	4413.8	4443.1	4391.0	4436.6	4439.9	4400.7	4505.1	4459.4	4452.9	4439.9
30°	4739.8	4716.9	4697.4	4668.0	4703.9	4674.6	4707.2	4716.9	4674.6	4642.0	4580.0
32.5°	4906.0	4967.9	4990.8	4919.0	4922.3	4938.6	4909.3	4879.9	4906.0	4915.8	4906.0
35°	5140.7	5199.4	5212.4	5157.0	5127.7	5209.2	5150.5	5248.3	5163.5	5166.8	5078.8
37.5°	5414.5	5430.8	5541.7	5479.7	5453.7	5414.5	5522.1	5509.1	5528.6	5372.2	5450.4
40°	5724.2	5782.9	5844.8	5688.4	5685.1	5721.0	5714.4	5789.4	5753.6	5730.7	5675.3
42.5°	6063.2	6187.1	6196.9	6092.6	6027.4	6020.9	6053.5	6219.7	6223.0	6073.0	6007.8
45°	6513.1	6650.0	6614.1	6412.0	6340.3	6330.5	6490.3	6562.0	6623.9	6565.3	6509.8
47.5°	7073.8	7165.1	7139.0	6953.2	6721.7	6786.9	6943.4	7168.3	7103.1	7024.9	6959.7
50°	7673.6	7781.2	7725.7	7539.9	7318.3	7318.3	7510.6	7797.5	7777.9	7624.7	7566.0
52.5°	8338.6	8495.1	8622.2	8358.1	8172.3	8201.7	8504.8	8609.2	8560.3	8452.7	8403.8
55°	8834.1	9134.0	9394.8	9407.8	9417.6	9414.3	9492.6	9596.9	9248.1	9075.3	8899.3
57.5°	8713.5	9280.7	10173.9	10780.2	10959.5	11054.0	11027.9	10545.5	9720.7	9153.5	9212.2
60°	7852.9	8778.7	10219.5	12165.6	13469.5	13339.1	12863.2	10956.2	9460.0	8501.6	8381.0
62.5°	6265.3	7380.2	9453.4	12556.8	16149.1	16110.0	13619.5	10007.6	7882.2	6669.6	6594.6
64°	4720.2	5893.7	8433.1	12455.7	17087.9	17127.0	13427.1	8840.6	6167.6	4720.2	4606.1
65°	3611.9	4700.6	7432.4	12247.1	16885.8	16908.6	12892.5	7634.5	4687.6	3351.1	3227.2
67.5°	1437.6	2001.5	4032.4	9287.2	14499.6	14437.7	9199.2	3693.4	1792.9	1167.0	1144.2
70°	612.8	762.8	1414.8	4400.7	9707.7	9528.4	3960.7	1199.6	665.0	557.4	554.2
72.5°	420.5	466.2	606.3	1359.3	4035.6	3941.1	1127.9	557.4	453.1	417.3	417.3
75°	339.0	371.6	440.1	570.5	1069.2	1030.1	531.3	410.7	361.8	335.8	332.5
77.5°	264.0	296.6	345.5	394.4	489.0	485.7	355.3	309.7	280.3	260.8	254.3
80°	208.6	241.2	273.8	280.3	319.5	312.9	241.2	244.5	228.2	189.1	185.8
82.5°	143.4	195.6	218.4	198.8	189.1	189.1	172.8	172.8	159.7	117.4	107.6
85°	88.0	130.4	136.9	117.4	88.0	88.0	94.5	91.3	84.8	61.9	58.7
87.5°	45.6	61.9	55.4	45.6	29.3	29.3	26.1	19.6	19.6	16.3	16.3
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)