

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: P481263

Luminaire Tested: **IFLD-L-SA7B-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

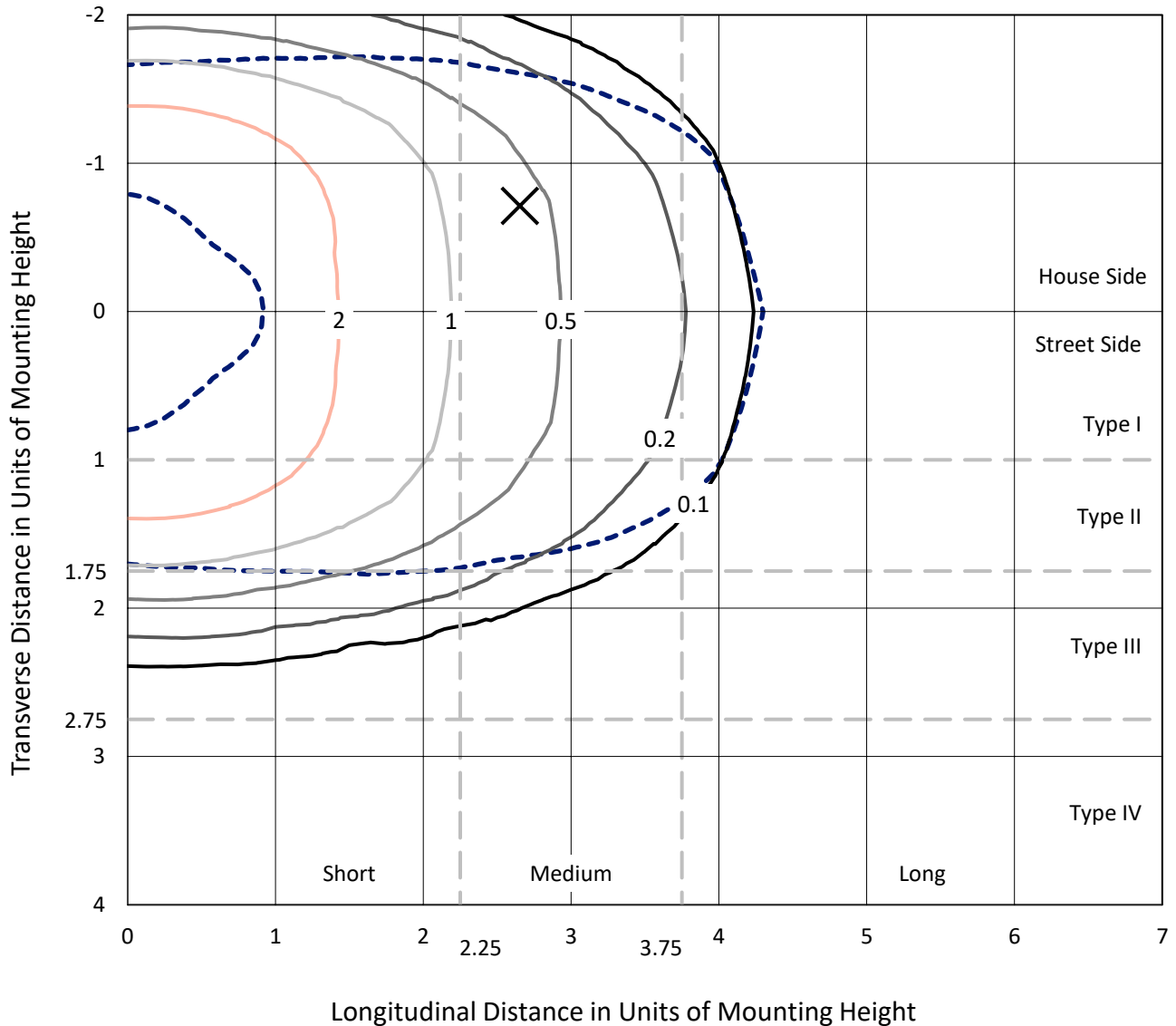
Lumens per Lamp: N/A
Luminaire Lumens: 36178.9 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 281
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: P481263
 CATALOG NUMBER: IFLD-L-SA7B-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

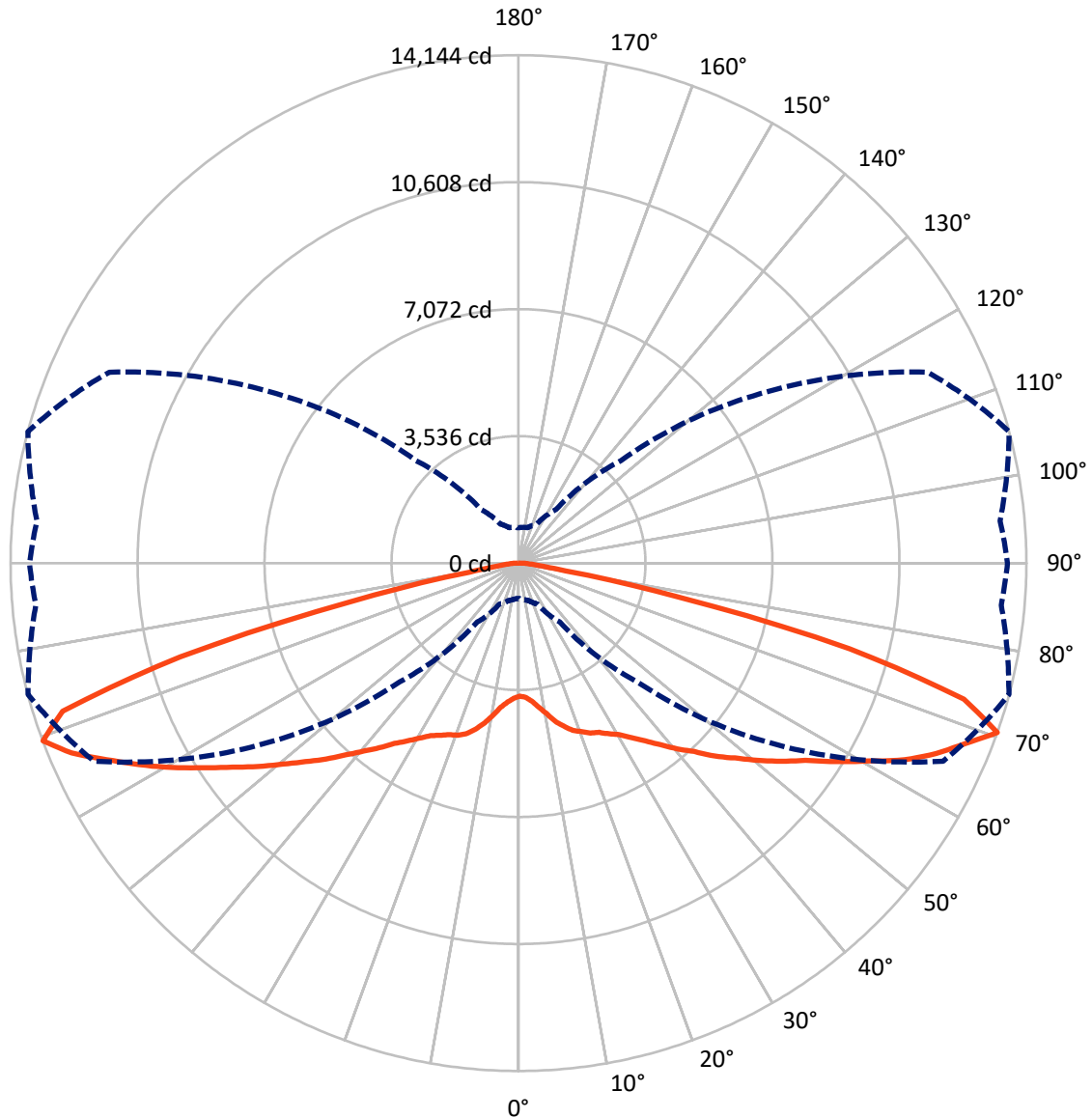
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481263
CATALOG NUMBER: IFLD-L-SA7B-735-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481263
 CATALOG NUMBER: IFLD-L-SA7B-735-U-RW

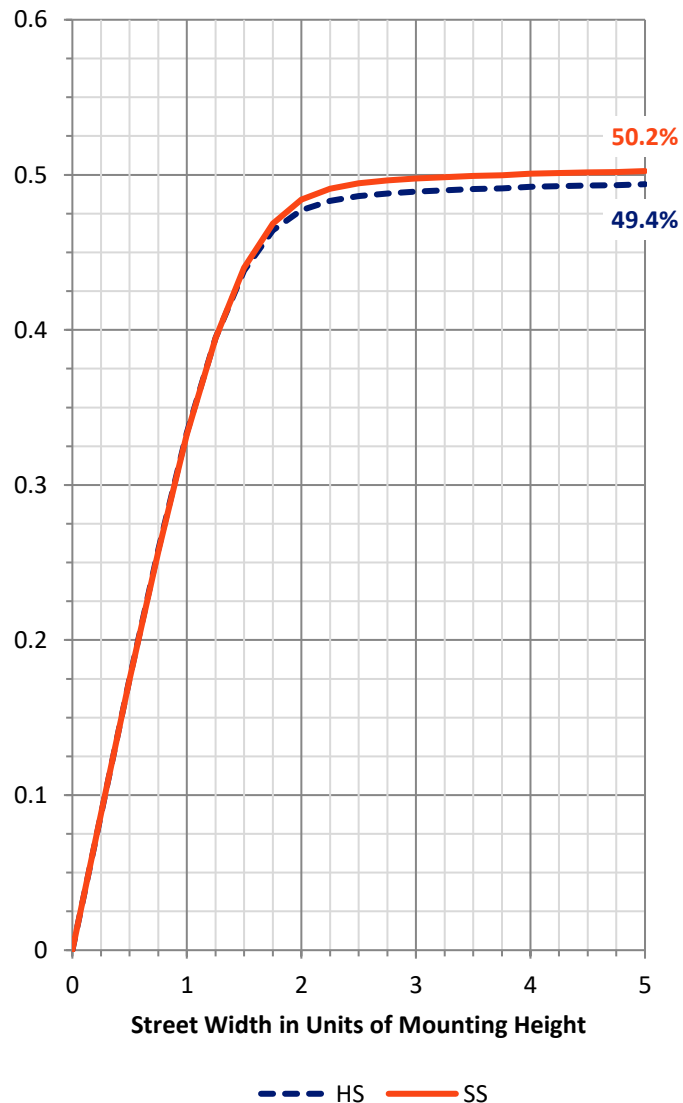
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17960.8	0.0	17960.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18218.1	0.0	18218.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	36178.9	0.0	36178.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.7	1.0
10°-20°	1255.5	3.5
20°-30°	2431.1	6.7
30°-40°	4112.1	11.4
40°-50°	6559.9	18.1
50°-60°	8979.1	24.8
60°-70°	8463.4	23.4
70°-80°	3728.4	10.3
80°-90°	280.5	0.8
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°	36178.9	100.0
0°-180°	36178.9	100.0

Coefficient of Utilization



REPORT NUMBER: P481263

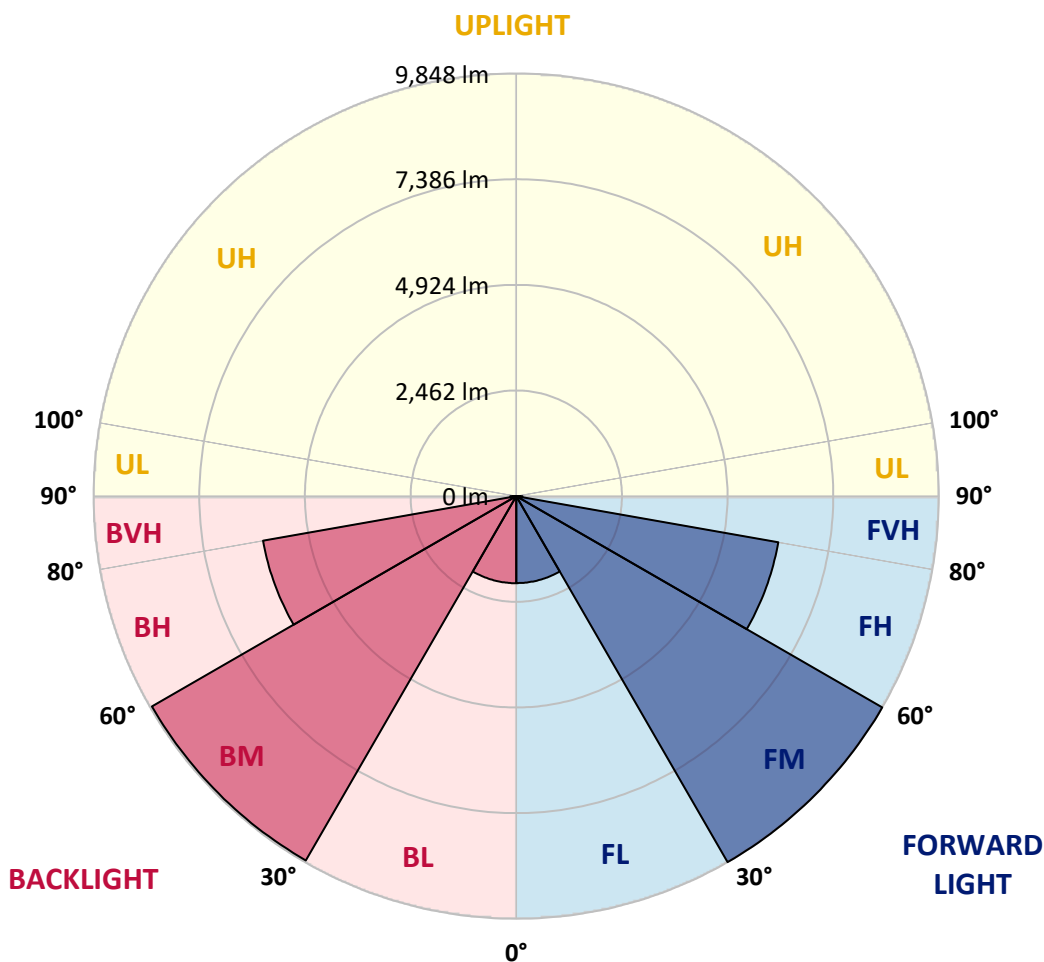
CATALOG NUMBER: IFLD-L-SA7B-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2026.6	5.6			
FM (30°-60°)	9847.6	27.2			
FH (60°-80°)	6200.7	17.1			G3/7500
FVH (80°-90°)	143.3	0.4			G2/225
BL (0°-30°)	2028.8	5.6	B3/2500		
BM (30°-60°)	9803.6	27.1	B5		
BH (60°-80°)	5991.2	16.6	B5		G5
BVH (80°-90°)	137.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





REPORT NUMBER: P481263

CATALOG NUMBER: IFLD-L-SA7B-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7
2.5°	3681.3	3681.3	3677.4	3696.9	3716.4	3724.2	3739.8	3743.7	3767.1	3747.6	3786.6
5°	3669.6	3665.7	3696.9	3743.7	3743.7	3794.4	3825.6	3868.5	3880.2	3903.6	3911.4
7.5°	3751.5	3743.7	3728.1	3778.8	3821.7	3899.7	3942.6	4016.7	4044.0	4075.1	4110.2
10°	3802.2	3802.2	3786.6	3876.3	3915.3	4020.6	4114.1	4188.2	4293.5	4328.6	4332.5
12.5°	3810.0	3821.7	3868.5	3985.5	4094.6	4231.1	4301.3	4441.7	4547.0	4613.3	4636.7
15°	3927.0	3903.6	3954.3	4114.1	4274.0	4394.9	4519.7	4621.1	4773.2	4859.0	4913.6
17.5°	4032.3	4008.9	4102.4	4293.5	4457.3	4644.5	4753.7	4862.9	4972.1	5050.1	5054.0
20°	4199.9	4219.4	4301.3	4508.0	4722.5	4886.3	5011.1	5030.6	5085.2	5198.3	5178.8
22.5°	4406.6	4391.0	4562.6	4788.8	5022.8	5159.3	5229.5	5178.8	5151.5	5272.3	5299.6
25°	4613.3	4660.1	4816.1	5026.7	5307.4	5490.7	5510.2	5369.8	5268.4	5311.3	5299.6
27.5°	4929.2	4937.0	5100.8	5350.3	5635.0	5794.9	5783.2	5584.3	5389.3	5393.2	5401.0
30°	5334.7	5295.7	5475.1	5701.3	5982.1	6126.4	6145.9	5861.2	5599.9	5521.9	5541.4
32.5°	5724.7	5771.5	5927.5	6184.9	6391.6	6473.4	6430.5	6177.1	5837.8	5732.5	5744.2
35°	6223.9	6216.1	6430.5	6648.9	6804.9	6820.5	6785.4	6414.9	6095.2	5958.7	5904.1
37.5°	6758.1	6828.3	6968.7	7148.1	7311.9	7319.7	7128.6	6832.2	6438.3	6212.2	6278.5
40°	7354.8	7432.8	7534.2	7795.4	7916.3	7791.5	7596.5	7194.9	6785.4	6586.5	6617.7
42.5°	7881.2	7916.3	8123.0	8431.1	8489.6	8435.0	8146.4	7658.9	7183.2	6964.8	6980.4
45°	8364.8	8411.6	8680.7	8957.5	9094.0	9000.4	8665.1	8201.0	7647.2	7460.1	7386.0
47.5°	8809.3	8902.9	9164.2	9448.9	9659.5	9667.3	9253.9	8692.4	8107.4	7861.7	7857.8
50°	9109.6	9246.1	9503.5	9827.2	10135.2	10256.1	9842.8	9238.3	8610.5	8349.2	8321.9
52.5°	9273.4	9413.8	9671.2	10174.2	10517.4	10704.6	10509.6	9749.2	9199.3	8926.3	8883.4
55°	9074.5	9168.1	9589.3	10295.1	10825.5	11133.5	11004.9	10455.0	9784.3	9562.0	9601.0
57.5°	8228.3	8423.3	8941.9	9823.3	10817.7	11574.2	11562.5	11121.8	10458.9	10248.3	10256.1
60°	6773.7	6937.5	7577.0	8809.3	10380.9	11753.6	12167.0	11769.2	11215.4	10969.8	10962.0
62.5°	4781.0	4987.7	5728.6	7074.0	9094.0	11504.0	12861.1	12584.2	11956.4	11777.0	11843.3
65°	2675.2	2800.0	3486.3	4703.0	6929.7	10131.3	12985.9	13430.4	12709.0	12436.0	12447.7
67.5°	1431.2	1478.0	1797.7	2468.5	4238.9	7811.0	11726.3	13917.9	13524.0	13052.2	12978.1
70°	982.7	998.3	1080.2	1263.5	2004.4	4671.8	8844.4	13048.3	14136.3	13492.8	13617.6
72.5°	830.6	822.8	842.3	861.8	1049.0	2090.2	5190.5	10041.6	13344.7	13102.9	13056.1
75°	721.4	717.5	725.3	705.8	729.2	920.3	2296.9	6259.0	9768.7	10903.5	11078.9
77.5°	596.6	600.5	604.4	584.9	577.2	608.3	924.2	2749.3	4808.3	5307.4	5724.7
80°	452.4	460.2	491.4	471.9	440.7	444.6	546.0	920.3	1380.5	1251.8	1290.8
82.5°	308.1	312.0	378.3	354.9	331.5	300.3	351.0	475.8	538.2	409.5	358.8
85°	218.4	214.5	245.7	226.2	210.6	152.1	210.6	269.1	323.7	202.8	183.3
87.5°	50.7	50.7	101.4	81.9	78.0	62.4	81.9	105.3	140.4	89.7	81.9
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: P481263
 CATALOG NUMBER: IFLD-L-SA7B-735-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7
2.5°	3774.9	3739.8	3739.8	3732.0	3700.8	3693.0	3665.7	3673.5	3654.0	3634.5
5°	3907.5	3860.7	3860.7	3794.4	3732.0	3724.2	3693.0	3693.0	3661.8	3669.6
7.5°	4090.7	4047.9	3977.7	3919.2	3833.4	3798.3	3739.8	3732.0	3724.2	3708.6
10°	4309.1	4254.5	4184.3	4063.5	3993.3	3927.0	3868.5	3786.6	3767.1	3771.0
12.5°	4605.5	4519.7	4367.6	4262.3	4172.6	4086.8	4001.1	3880.2	3852.9	3864.6
15°	4816.1	4706.9	4554.8	4515.8	4394.9	4289.6	4149.2	4012.8	3966.0	3954.3
17.5°	4987.7	4898.0	4808.3	4749.8	4652.3	4523.6	4328.6	4172.6	4067.4	4055.7
20°	5128.1	5011.1	4991.6	5026.7	4905.8	4820.0	4582.1	4391.0	4250.6	4192.1
22.5°	5213.9	5139.8	5194.4	5225.6	5217.8	5073.5	4827.8	4605.5	4430.0	4375.4
25°	5307.4	5221.7	5416.6	5521.9	5549.2	5311.3	5120.3	4827.8	4656.2	4621.1
27.5°	5354.2	5385.4	5611.6	5833.9	5814.4	5631.1	5373.7	5112.5	4976.0	4913.6
30°	5490.7	5541.4	5884.6	6134.2	6138.1	5958.7	5763.7	5467.3	5315.2	5287.9
32.5°	5736.4	5798.8	6165.4	6430.5	6477.3	6340.9	6145.9	5962.6	5806.6	5744.2
35°	5923.6	6083.5	6496.8	6738.6	6863.4	6781.5	6672.3	6481.2	6317.5	6262.9
37.5°	6192.7	6414.9	6812.7	7140.3	7280.7	7272.9	7191.0	6984.3	6847.8	6801.0
40°	6578.7	6801.0	7163.7	7596.5	7857.8	7846.1	7799.3	7639.4	7436.7	7413.3
42.5°	6988.2	7171.5	7643.3	8138.6	8513.0	8474.0	8349.2	8162.0	8021.6	7990.4
45°	7386.0	7670.6	8107.4	8743.0	9023.8	9121.3	8973.1	8653.4	8493.5	8474.0
47.5°	7885.1	8111.3	8657.3	9226.6	9643.9	9659.5	9406.0	9109.6	8817.1	8879.5
50°	8329.7	8630.0	9183.7	9807.7	10306.8	10127.4	9803.8	9433.3	9222.7	9140.8
52.5°	8805.4	9172.0	9815.5	10451.1	10728.0	10548.6	10022.1	9608.8	9289.0	9253.9
55°	9499.6	9690.7	10533.0	11020.5	11110.1	10731.9	9955.8	9370.9	8957.5	8856.1
57.5°	10205.4	10427.7	11164.7	11585.9	11492.3	10630.5	9526.9	8622.2	8080.1	7935.8
60°	10919.1	11192.0	11812.1	12198.2	11714.6	9932.4	8314.1	7148.1	6516.3	6387.7
62.5°	11714.6	12069.5	12623.2	12759.7	11055.5	8552.0	6598.2	5159.3	4519.7	4305.2
65°	12420.4	12783.1	13465.5	12642.7	9655.6	6379.9	4266.2	2948.1	2476.3	2304.7
67.5°	13001.5	13410.9	13746.3	11188.1	7070.1	3735.9	2222.8	1552.1	1376.6	1314.2
70°	13461.6	14144.1	12576.4	8224.4	4040.1	1821.1	1201.1	1021.7	998.3	982.7
72.5°	13060.0	12970.3	9390.4	4745.9	1770.4	1002.2	869.6	842.3	838.4	842.3
75°	10681.2	9526.9	5615.5	2062.9	889.1	725.3	721.4	709.7	729.2	729.2
77.5°	5182.7	4531.4	2347.6	885.2	584.9	569.4	588.8	588.8	588.8	588.8
80°	1201.1	1329.8	838.4	538.2	425.1	425.1	468.0	471.9	452.4	444.6
82.5°	409.5	546.0	460.2	339.3	280.8	315.9	354.9	362.7	300.3	304.2
85°	202.8	319.8	249.6	195.0	144.3	195.0	230.1	241.8	206.7	198.9
87.5°	93.6	140.4	93.6	66.3	50.7	70.2	66.3	54.6	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)