

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: P481175

Luminaire Tested: **IFLD-S-SA6B-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481175
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

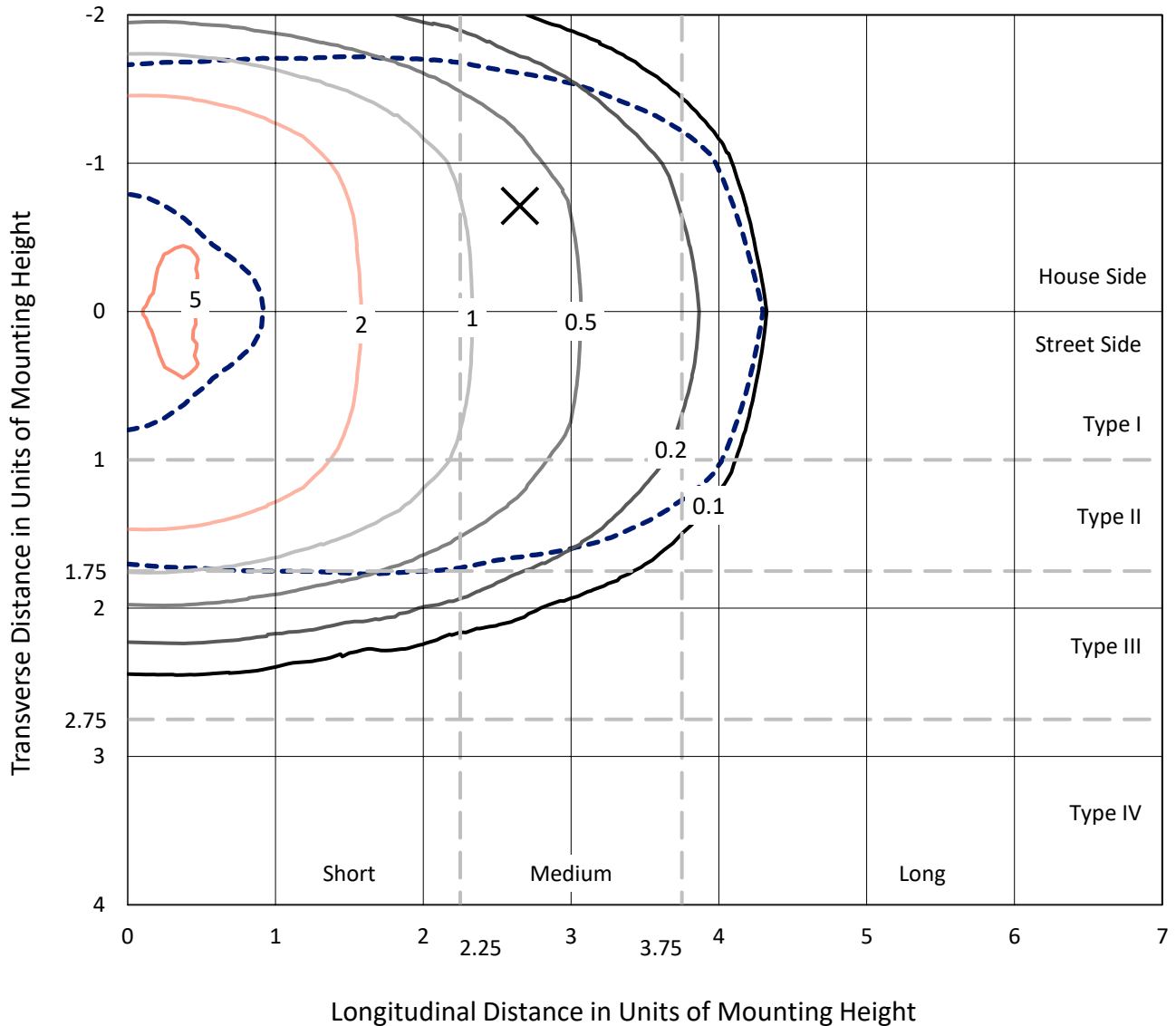
Lumens per Lamp: N/A
Luminaire Lumens: 28753.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 244.9
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: P481175
 CATALOG NUMBER: IFLD-S-SA6B-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

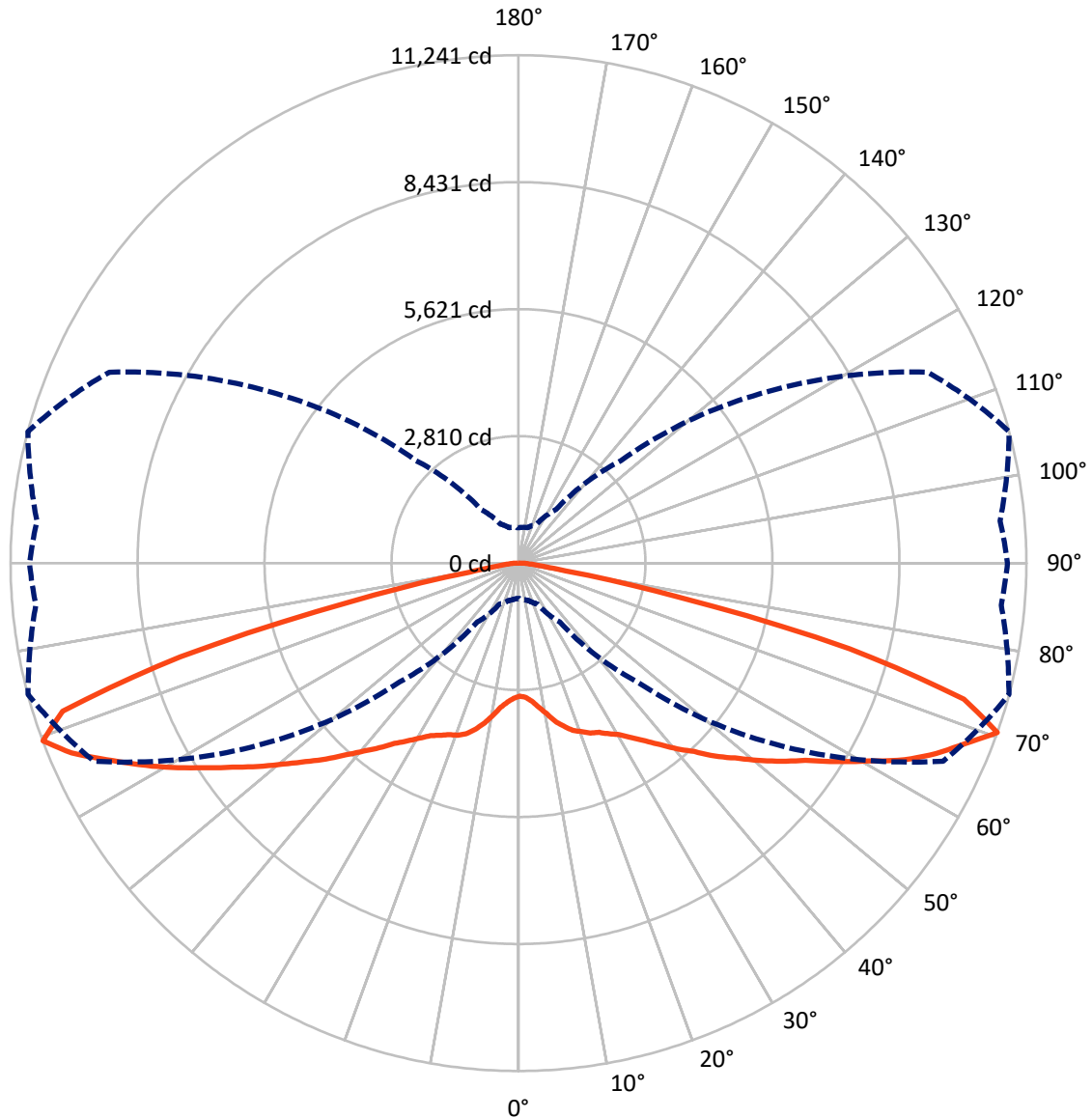
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481175
CATALOG NUMBER: IFLD-S-SA6B-727-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481175
 CATALOG NUMBER: IFLD-S-SA6B-727-U-RW

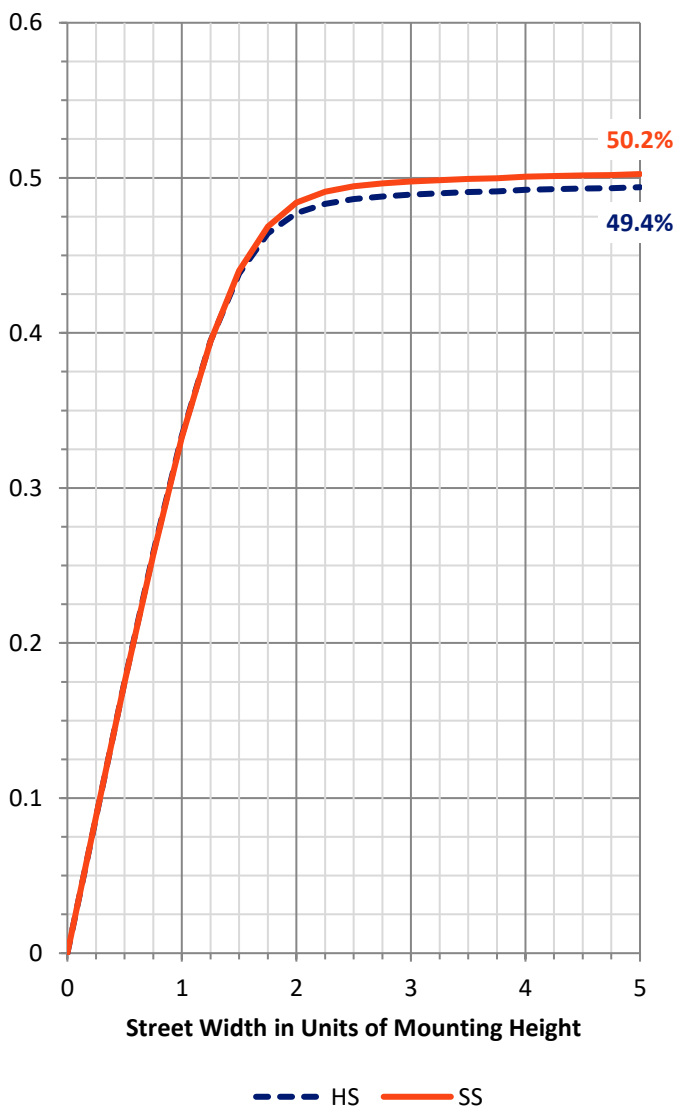
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14274.5	0.0	14274.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14479.1	0.0	14479.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	28753.7	0.0	28753.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	1.0
10°-20°	997.8	3.5
20°-30°	1932.2	6.7
30°-40°	3268.1	11.4
40°-50°	5213.6	18.1
50°-60°	7136.3	24.8
60°-70°	6726.4	23.4
70°-80°	2963.2	10.3
80°-90°	223.0	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°	28753.7	100.0
0°-180°	28753.7	100.0

Coefficient of Utilization



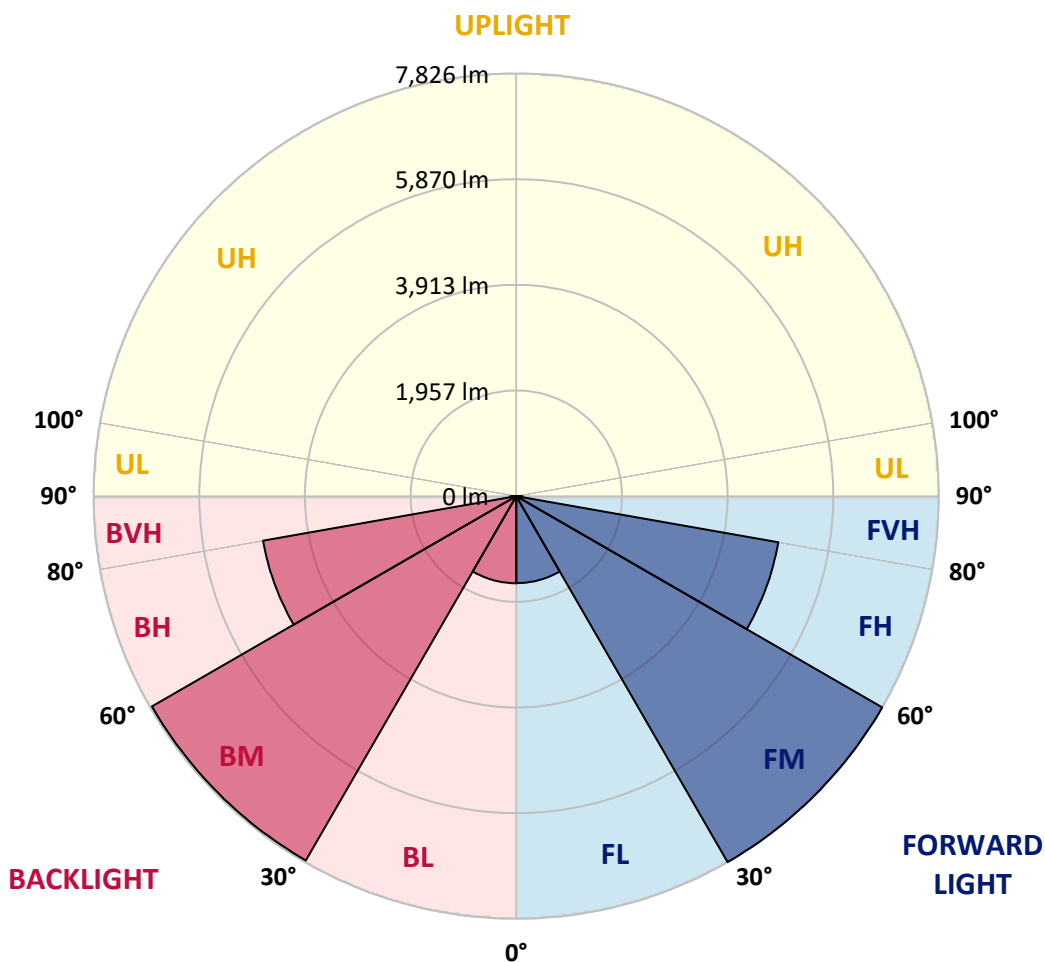
REPORT NUMBER: P481175
 CATALOG NUMBER: IFLD-S-SA6B-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.7	5.6			
FM (30°-60°)	7826.5	27.2			
FH (60°-80°)	4928.1	17.1			G2/5000
FVH (80°-90°)	113.9	0.4			G2/225
BL (0°-30°)	1612.4	5.6	B3/2500		
BM (30°-60°)	7791.5	27.1	B4/8500		
BH (60°-80°)	4761.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	109.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P481175

CATALOG NUMBER: IFLD-S-SA6B-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3
2.5°	2925.7	2925.7	2922.6	2938.1	2953.6	2959.8	2972.2	2975.3	2993.9	2978.4	3009.4
5°	2916.5	2913.4	2938.1	2975.3	2975.3	3015.6	3040.4	3074.5	3083.8	3102.4	3108.6
7.5°	2981.5	2975.3	2962.9	3003.2	3037.3	3099.3	3133.4	3192.3	3214.0	3238.8	3266.7
10°	3021.8	3021.8	3009.4	3080.7	3111.7	3195.4	3269.8	3328.7	3412.3	3440.2	3443.3
12.5°	3028.0	3037.3	3074.5	3167.5	3254.3	3362.8	3418.5	3530.1	3613.8	3666.5	3685.1
15°	3121.0	3102.4	3142.7	3269.8	3396.8	3492.9	3592.1	3672.7	3793.6	3861.7	3905.1
17.5°	3204.7	3186.1	3260.5	3412.3	3542.5	3691.3	3778.1	3864.8	3951.6	4013.6	4016.7
20°	3338.0	3353.5	3418.5	3582.8	3753.3	3883.4	3982.6	3998.1	4041.5	4131.4	4115.9
22.5°	3502.2	3489.8	3626.2	3806.0	3991.9	4100.4	4156.2	4115.9	4094.2	4190.3	4212.0
25°	3666.5	3703.7	3827.6	3995.0	4218.2	4363.8	4379.3	4267.8	4187.2	4221.3	4212.0
27.5°	3917.5	3923.7	4053.9	4252.3	4478.5	4605.6	4596.3	4438.2	4283.2	4286.3	4292.5
30°	4239.9	4208.9	4351.4	4531.2	4754.3	4869.0	4884.5	4658.3	4450.6	4388.6	4404.1
32.5°	4549.8	4587.0	4711.0	4915.5	5079.8	5144.9	5110.8	4909.3	4639.7	4556.0	4565.3
35°	4946.5	4940.3	5110.8	5284.3	5408.3	5420.7	5392.8	5098.4	4844.2	4735.7	4692.4
37.5°	5371.1	5426.9	5538.5	5681.0	5811.2	5817.4	5665.5	5430.0	5117.0	4937.2	4989.9
40°	5845.3	5907.3	5987.9	6195.5	6291.6	6192.4	6037.5	5718.2	5392.8	5234.7	5259.5
42.5°	6263.7	6291.6	6455.9	6700.7	6747.2	6703.8	6474.5	6087.0	5708.9	5535.4	5547.8
45°	6648.0	6685.2	6899.1	7119.1	7227.6	7153.2	6886.7	6517.9	6077.7	5929.0	5870.1
47.5°	7001.3	7075.7	7283.4	7509.6	7677.0	7683.2	7354.7	6908.4	6443.5	6248.2	6245.1
50°	7240.0	7348.5	7553.0	7810.3	8055.1	8151.2	7822.7	7342.3	6843.3	6635.6	6613.9
52.5°	7370.2	7481.7	7686.3	8086.1	8358.8	8507.6	8352.6	7748.3	7311.3	7094.3	7060.2
55°	7212.1	7286.5	7621.2	8182.2	8603.7	8848.5	8746.3	8309.3	7776.2	7599.5	7630.5
57.5°	6539.5	6694.5	7106.7	7807.2	8597.5	9198.8	9189.5	8839.2	8312.4	8145.0	8151.2
60°	5383.5	5513.7	6022.0	7001.3	8250.4	9341.3	9669.8	9353.7	8913.6	8718.4	8712.2
62.5°	3799.8	3964.0	4552.9	5622.1	7227.6	9143.0	10221.5	10001.5	9502.5	9359.9	9412.6
65°	2126.1	2225.3	2770.8	3737.8	5507.5	8052.0	10320.7	10674.0	10100.7	9883.7	9893.0
67.5°	1137.4	1174.6	1428.8	1961.9	3369.0	6207.9	9319.6	11061.4	10748.4	10373.4	10314.5
70°	781.0	793.4	858.5	1004.2	1593.0	3713.0	7029.2	10370.3	11235.0	10723.6	10822.8
72.5°	660.2	654.0	669.5	684.9	833.7	1661.2	4125.2	7980.7	10605.8	10413.7	10376.5
75°	573.4	570.3	576.5	561.0	579.6	731.4	1825.5	4974.4	7763.8	8665.7	8805.1
77.5°	474.2	477.3	480.4	464.9	458.7	483.5	734.5	2185.0	3821.5	4218.2	4549.8
80°	359.5	365.7	390.5	375.0	350.2	353.3	433.9	731.4	1097.2	994.9	1025.9
82.5°	244.8	247.9	300.6	282.0	263.4	238.6	278.9	378.1	427.7	325.4	285.1
85°	173.6	170.5	195.3	179.8	167.4	120.9	167.4	213.9	257.2	161.2	145.7
87.5°	40.3	40.3	80.6	65.1	62.0	49.6	65.1	83.7	111.6	71.3	65.1
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: P481175
 CATALOG NUMBER: IFLD-S-SA6B-727-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3	2944.3
2.5°	3000.1	2972.2	2972.2	2966.0	2941.2	2935.0	2913.4	2919.6	2904.1	2888.6
5°	3105.5	3068.3	3068.3	3015.6	2966.0	2959.8	2935.0	2935.0	2910.3	2916.5
7.5°	3251.2	3217.1	3161.3	3114.8	3046.6	3018.7	2972.2	2966.0	2959.8	2947.4
10°	3424.7	3381.3	3325.6	3229.5	3173.7	3121.0	3074.5	3009.4	2993.9	2997.0
12.5°	3660.3	3592.1	3471.2	3387.5	3316.3	3248.1	3179.9	3083.8	3062.1	3071.4
15°	3827.6	3740.9	3620.0	3589.0	3492.9	3409.2	3297.7	3189.2	3152.0	3142.7
17.5°	3964.0	3892.7	3821.5	3775.0	3697.5	3595.2	3440.2	3316.3	3232.6	3223.3
20°	4075.6	3982.6	3967.1	3995.0	3898.9	3830.7	3641.7	3489.8	3378.2	3331.8
22.5°	4143.8	4084.9	4128.3	4153.1	4146.9	4032.2	3836.9	3660.3	3520.8	3477.4
25°	4218.2	4150.0	4304.9	4388.6	4410.3	4221.3	4069.4	3836.9	3700.6	3672.7
27.5°	4255.4	4280.1	4459.9	4636.6	4621.1	4475.4	4270.9	4063.2	3954.7	3905.1
30°	4363.8	4404.1	4676.9	4875.2	4878.3	4735.7	4580.8	4345.2	4224.4	4202.7
32.5°	4559.1	4608.7	4900.0	5110.8	5148.0	5039.5	4884.5	4738.8	4614.9	4565.3
35°	4707.9	4834.9	5163.5	5355.6	5454.8	5389.7	5302.9	5151.1	5020.9	4977.5
37.5°	4921.7	5098.4	5414.5	5674.8	5786.4	5780.2	5715.1	5550.9	5442.4	5405.2
40°	5228.5	5405.2	5693.4	6037.5	6245.1	6235.8	6198.6	6071.5	5910.4	5891.8
42.5°	5554.0	5699.6	6074.6	6468.3	6765.8	6734.8	6635.6	6486.9	6375.3	6350.5
45°	5870.1	6096.3	6443.5	6948.7	7171.8	7249.3	7131.5	6877.4	6750.3	6734.8
47.5°	6266.8	6446.6	6880.5	7333.0	7664.6	7677.0	7475.5	7240.0	7007.5	7057.1
50°	6620.1	6858.8	7298.9	7794.8	8191.5	8048.9	7791.7	7497.2	7329.9	7264.8
52.5°	6998.2	7289.6	7801.0	8306.2	8526.2	8383.6	7965.2	7636.7	7382.6	7354.7
55°	7549.9	7701.8	8371.2	8758.7	8829.9	8529.3	7912.5	7447.6	7119.1	7038.5
57.5°	8110.9	8287.6	8873.3	9208.1	9133.7	8448.7	7571.6	6852.6	6421.8	6307.1
60°	8678.1	8895.0	9387.8	9694.6	9310.3	7893.9	6607.7	5681.0	5178.9	5076.7
62.5°	9310.3	9592.4	10032.5	10140.9	8786.5	6796.8	5244.0	4100.4	3592.1	3421.6
65°	9871.3	10159.5	10701.9	10048.0	7673.9	5070.5	3390.6	2343.1	1968.1	1831.7
67.5°	10333.1	10658.5	10925.1	8891.9	5619.1	2969.1	1766.6	1233.5	1094.1	1044.5
70°	10698.8	11241.2	9995.3	6536.4	3210.9	1447.4	954.6	812.0	793.4	781.0
72.5°	10379.6	10308.3	7463.1	3771.9	1407.1	796.5	691.1	669.5	666.4	669.5
75°	8489.0	7571.6	4463.0	1639.5	706.6	576.5	573.4	564.1	579.6	579.6
77.5°	4119.0	3601.4	1865.8	703.5	464.9	452.5	468.0	468.0	468.0	468.0
80°	954.6	1056.9	666.4	427.7	337.8	337.8	371.9	375.0	359.5	353.3
82.5°	325.4	433.9	365.7	269.6	223.2	251.0	282.0	288.2	238.6	241.7
85°	161.2	254.1	198.4	155.0	114.7	155.0	182.9	192.2	164.3	158.1
87.5°	74.4	111.6	74.4	52.7	40.3	55.8	52.7	43.4	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)