

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: P481424

Luminaire Tested: **IFLD-L-SA8B-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

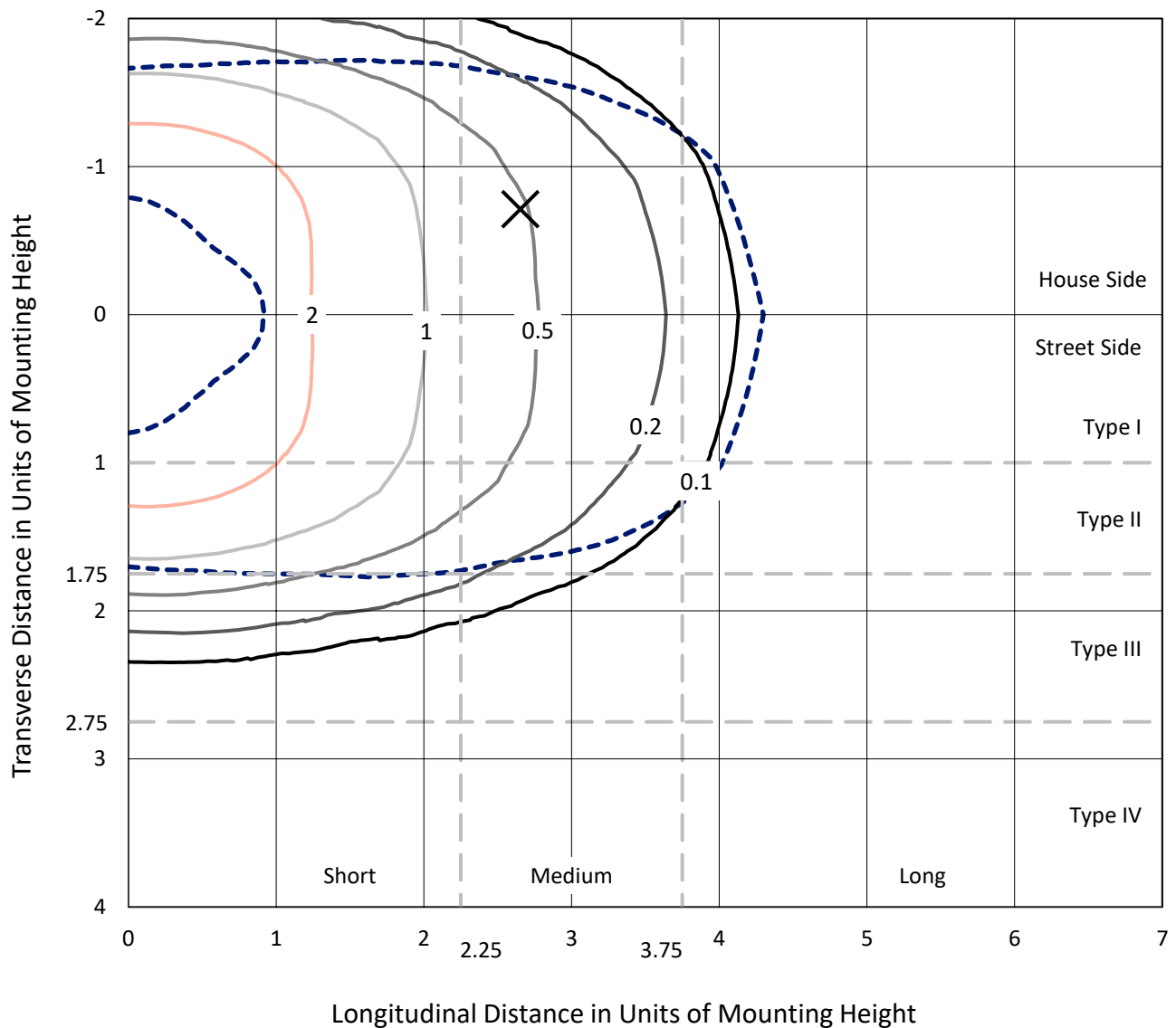
Lumens per Lamp: N/A
Luminaire Lumens: 30815.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 320
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

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Iso-Footcandle Lines of Horizontal Illumination

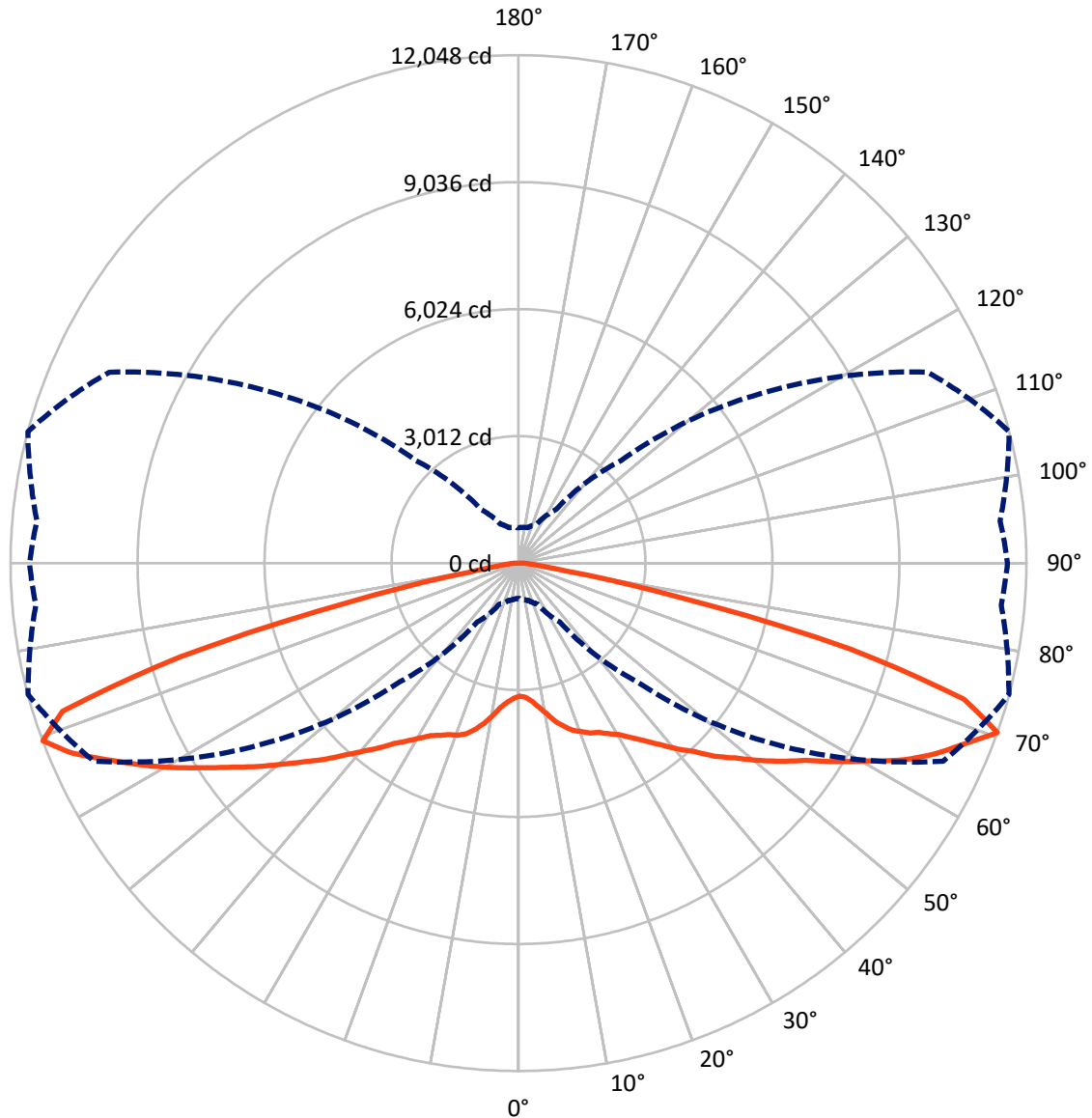
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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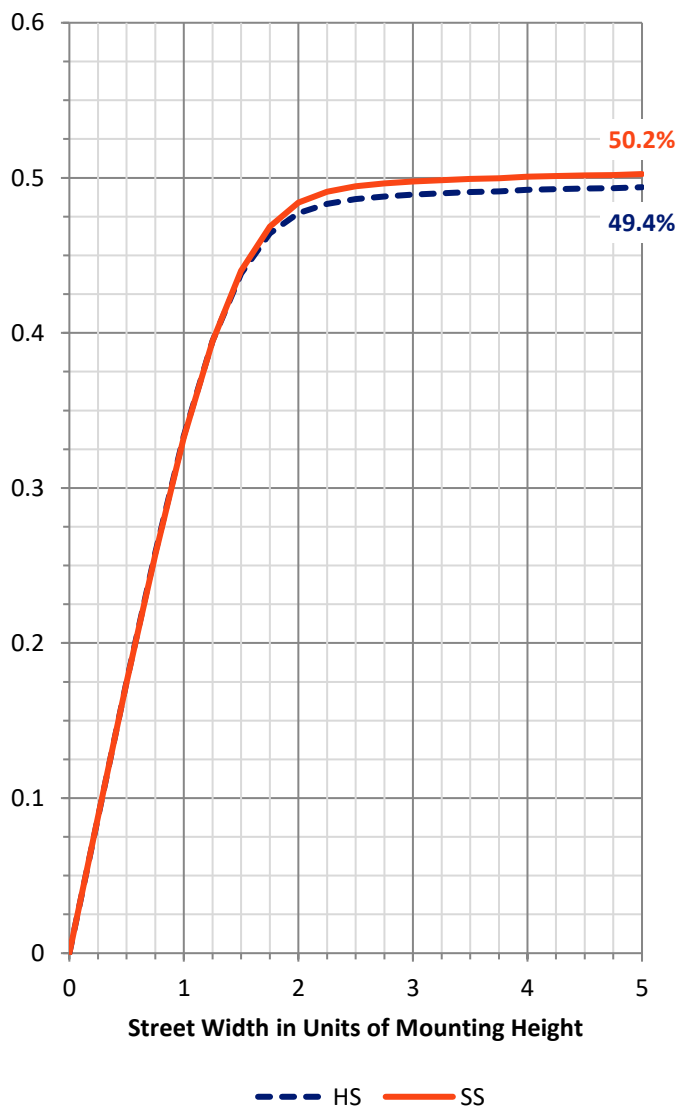
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15298.4	0.0	15298.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15517.6	0.0	15517.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	30815.9	0.0	30815.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	1.0
10°-20°	1069.4	3.5
20°-30°	2070.8	6.7
30°-40°	3502.5	11.4
40°-50°	5587.5	18.1
50°-60°	7648.1	24.8
60°-70°	7208.9	23.4
70°-80°	3175.7	10.3
80°-90°	238.9	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°	30815.9	100.0
0°-180°	30815.9	100.0

Coefficient of Utilization



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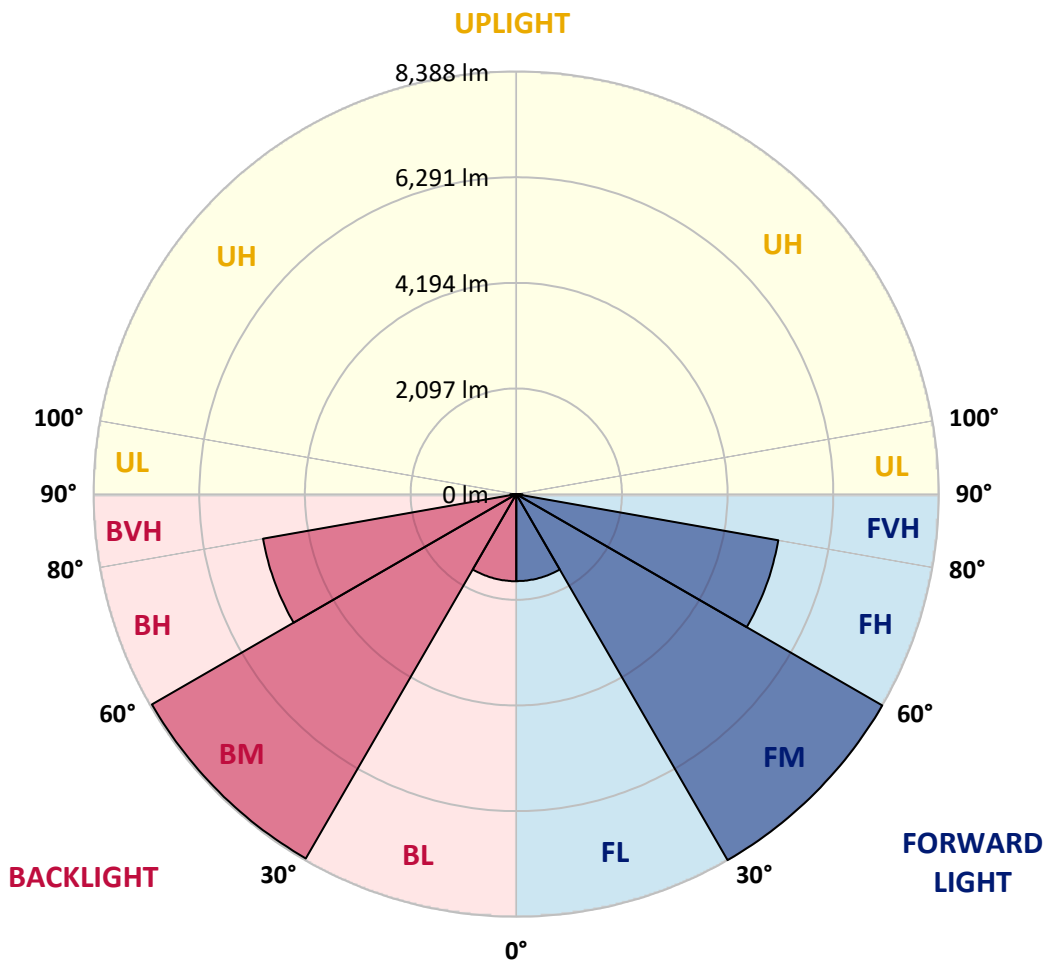
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.2	5.6			
FM (30°-60°)	8387.8	27.2			
FH (60°-80°)	5281.5	17.1			G3/7500
FVH (80°-90°)	122.1	0.4			G2/225
BL (0°-30°)	1728.1	5.6	B3/2500		
BM (30°-60°)	8350.3	27.1	B4/8500		
BH (60°-80°)	5103.1	16.6	B5		G5
BVH (80°-90°)	116.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5
2.5°	3135.6	3135.6	3132.3	3148.9	3165.5	3172.1	3185.4	3188.7	3208.7	3192.1	3225.3
5°	3125.6	3122.3	3148.9	3188.7	3188.7	3231.9	3258.5	3295.0	3305.0	3324.9	3331.6
7.5°	3195.4	3188.7	3175.5	3218.6	3255.2	3321.6	3358.1	3421.3	3444.5	3471.1	3501.0
10°	3238.6	3238.6	3225.3	3301.7	3334.9	3424.6	3504.3	3567.4	3657.1	3687.0	3690.3
12.5°	3245.2	3255.2	3295.0	3394.7	3487.7	3603.9	3663.7	3783.3	3873.0	3929.5	3949.4
15°	3344.9	3324.9	3368.1	3504.3	3640.5	3743.4	3849.7	3936.1	4065.6	4138.7	4185.2
17.5°	3434.5	3414.6	3494.3	3657.1	3796.6	3956.0	4049.0	4142.0	4235.0	4301.5	4304.8
20°	3577.4	3594.0	3663.7	3839.8	4022.5	4162.0	4268.3	4284.9	4331.4	4427.7	4411.1
22.5°	3753.4	3740.1	3886.3	4078.9	4278.2	4394.5	4454.3	4411.1	4387.8	4490.8	4514.1
25°	3929.5	3969.3	4102.2	4281.5	4520.7	4676.8	4693.4	4573.8	4487.5	4524.0	4514.1
27.5°	4198.5	4205.1	4344.7	4557.2	4799.7	4935.9	4925.9	4756.5	4590.5	4593.8	4600.4
30°	4544.0	4510.7	4663.5	4856.2	5095.3	5218.2	5234.8	4992.4	4769.8	4703.4	4720.0
32.5°	4876.1	4916.0	5048.8	5268.1	5444.1	5513.9	5477.3	5261.4	4972.4	4882.8	4892.7
35°	5301.3	5294.6	5477.3	5663.3	5796.2	5809.5	5779.6	5464.0	5191.7	5075.4	5028.9
37.5°	5756.3	5816.1	5935.7	6088.5	6228.0	6234.6	6071.9	5819.4	5484.0	5291.3	5347.8
40°	6264.5	6331.0	6417.3	6639.9	6742.9	6636.6	6470.5	6128.4	5779.6	5610.2	5636.8
42.5°	6713.0	6742.9	6918.9	7181.3	7231.1	7184.6	6938.8	6523.6	6118.4	5932.4	5945.7
45°	7124.8	7164.7	7393.9	7629.7	7746.0	7666.3	7380.6	6985.3	6513.7	6354.2	6291.1
47.5°	7503.5	7583.2	7805.8	8048.2	8227.6	8234.3	7882.2	7403.9	6905.6	6696.4	6693.0
50°	7759.3	7875.5	8094.7	8370.4	8632.8	8735.8	8383.7	7868.9	7334.1	7111.6	7088.3
52.5°	7898.8	8018.3	8237.6	8666.1	8958.4	9117.8	8951.7	8304.0	7835.7	7603.1	7566.6
55°	7729.4	7809.1	8167.8	8769.0	9220.8	9483.2	9373.6	8905.2	8333.9	8144.6	8177.8
57.5°	7008.6	7174.7	7616.4	8367.1	9214.1	9858.5	9848.6	9473.2	8908.5	8729.2	8735.8
60°	5769.6	5909.1	6453.9	7503.5	8842.1	10011.3	10363.4	10024.6	9552.9	9343.7	9337.0
62.5°	4072.3	4248.3	4879.4	6025.4	7746.0	9798.7	10954.6	10718.8	10184.0	10031.2	10087.7
65°	2278.6	2384.9	2969.5	4005.9	5902.5	8629.5	11060.9	11439.6	10825.1	10592.6	10602.6
67.5°	1219.0	1258.9	1531.3	2102.6	3610.6	6653.2	9988.1	11854.8	11519.3	11117.4	11054.3
70°	837.0	850.3	920.1	1076.2	1707.3	3979.3	7533.4	11114.1	12040.8	11492.7	11599.0
72.5°	707.5	700.9	717.5	734.1	893.5	1780.4	4421.1	8553.1	11366.5	11160.6	11120.7
75°	614.5	611.2	617.8	601.2	621.1	783.9	1956.4	5331.2	8320.6	9287.2	9436.7
77.5°	508.2	511.5	514.8	498.2	491.6	518.2	787.2	2341.7	4095.5	4520.7	4876.1
80°	385.3	391.9	418.5	401.9	375.3	378.7	465.0	783.9	1175.8	1066.2	1099.5
82.5°	262.4	265.7	322.2	302.3	282.3	255.8	298.9	405.2	458.4	348.8	305.6
85°	186.0	182.7	209.3	192.7	179.4	129.5	179.4	229.2	275.7	172.7	156.1
87.5°	43.2	43.2	86.4	69.8	66.4	53.1	69.8	89.7	119.6	76.4	69.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5	3155.5
2.5°	3215.3	3185.4	3185.4	3178.8	3152.2	3145.6	3122.3	3128.9	3112.3	3095.7
5°	3328.2	3288.4	3288.4	3231.9	3178.8	3172.1	3145.6	3145.6	3119.0	3125.6
7.5°	3484.4	3447.8	3388.0	3338.2	3265.1	3235.2	3185.4	3178.8	3172.1	3158.8
10°	3670.4	3623.9	3564.1	3461.1	3401.3	3344.9	3295.0	3225.3	3208.7	3212.0
12.5°	3922.8	3849.7	3720.2	3630.5	3554.1	3481.0	3408.0	3305.0	3281.7	3291.7
15°	4102.2	4009.2	3879.6	3846.4	3743.4	3653.8	3534.2	3417.9	3378.1	3368.1
17.5°	4248.3	4171.9	4095.5	4045.7	3962.7	3853.1	3687.0	3554.1	3464.4	3454.5
20°	4367.9	4268.3	4251.7	4281.5	4178.6	4105.5	3902.9	3740.1	3620.5	3570.7
22.5°	4441.0	4377.9	4424.4	4450.9	4444.3	4321.4	4112.1	3922.8	3773.3	3726.8
25°	4520.7	4447.6	4613.7	4703.4	4726.6	4524.0	4361.3	4112.1	3966.0	3936.1
27.5°	4560.6	4587.1	4779.8	4969.1	4952.5	4796.4	4577.2	4354.6	4238.4	4185.2
30°	4676.8	4720.0	5012.3	5224.9	5228.2	5075.4	4909.3	4656.9	4527.3	4504.1
32.5°	4886.1	4939.2	5251.5	5477.3	5517.2	5400.9	5234.8	5078.7	4945.9	4892.7
35°	5045.5	5181.7	5533.8	5739.7	5846.0	5776.3	5683.3	5520.5	5381.0	5334.5
37.5°	5274.7	5464.0	5802.8	6081.9	6201.4	6194.8	6125.0	5949.0	5832.7	5792.9
40°	5603.5	5792.9	6101.8	6470.5	6693.0	6683.1	6643.2	6507.0	6334.3	6314.4
42.5°	5952.3	6108.4	6510.3	6932.2	7251.1	7217.8	7111.6	6952.1	6832.5	6806.0
45°	6291.1	6533.6	6905.6	7447.0	7686.2	7769.2	7643.0	7370.6	7234.5	7217.8
47.5°	6716.3	6908.9	7374.0	7858.9	8214.3	8227.6	8011.7	7759.3	7510.1	7563.3
50°	7094.9	7350.7	7822.4	8353.8	8779.0	8626.2	8350.5	8035.0	7855.6	7785.8
52.5°	7500.2	7812.4	8360.5	8901.9	9137.7	8984.9	8536.5	8184.4	7912.1	7882.2
55°	8091.4	8254.2	8971.6	9386.8	9463.2	9141.1	8480.1	7981.8	7629.7	7543.4
57.5°	8692.6	8882.0	9509.7	9868.5	9788.8	9054.7	8114.7	7344.1	6882.4	6759.5
60°	9300.5	9533.0	10061.1	10390.0	9978.1	8460.1	7081.7	6088.5	5550.4	5440.8
62.5°	9978.1	10280.4	10752.0	10868.3	9416.7	7284.3	5620.2	4394.5	3849.7	3667.0
65°	10579.3	10888.2	11469.5	10768.6	8224.3	5434.1	3633.8	2511.1	2109.2	1963.1
67.5°	11074.2	11423.0	11708.6	9529.7	6022.1	3182.1	1893.3	1322.0	1172.5	1119.4
70°	11466.2	12047.5	10712.2	7005.3	3441.2	1551.2	1023.1	870.3	850.3	837.0
72.5°	11124.0	11047.7	7998.4	4042.4	1508.0	853.7	740.7	717.5	714.1	717.5
75°	9097.9	8114.7	4783.1	1757.1	757.3	617.8	614.5	604.5	621.1	621.1
77.5°	4414.4	3859.7	1999.6	754.0	498.2	485.0	501.6	501.6	501.6	501.6
80°	1023.1	1132.7	714.1	458.4	362.1	362.1	398.6	401.9	385.3	378.7
82.5°	348.8	465.0	391.9	289.0	239.2	269.0	302.3	308.9	255.8	259.1
85°	172.7	272.4	212.6	166.1	122.9	166.1	196.0	205.9	176.0	169.4
87.5°	79.7	119.6	79.7	56.5	43.2	59.8	56.5	46.5	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)