

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: P481151

Luminaire Tested: **IFLD-L-SA8B-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481151
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

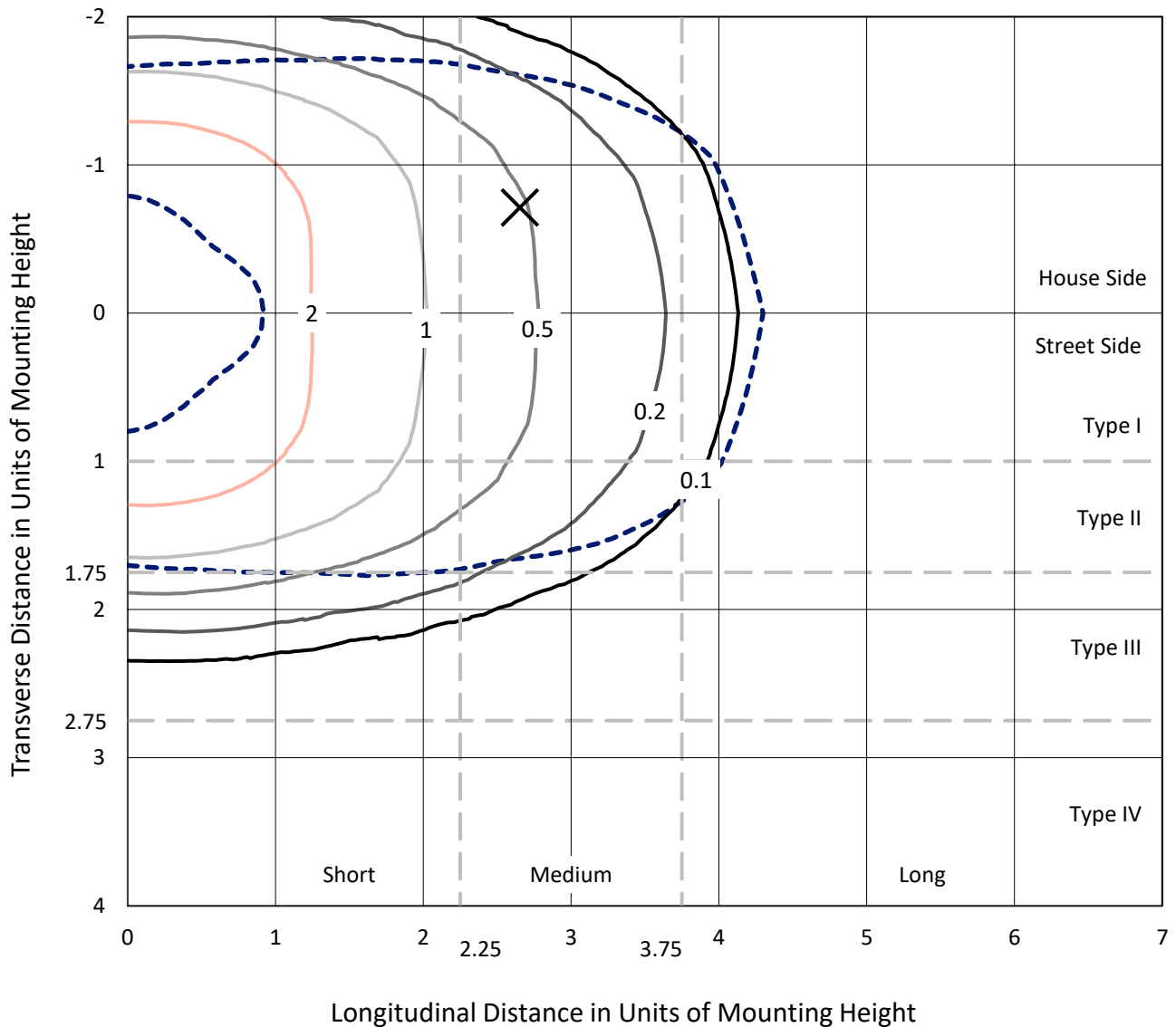
Lumens per Lamp: N/A
Luminaire Lumens: 30878.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

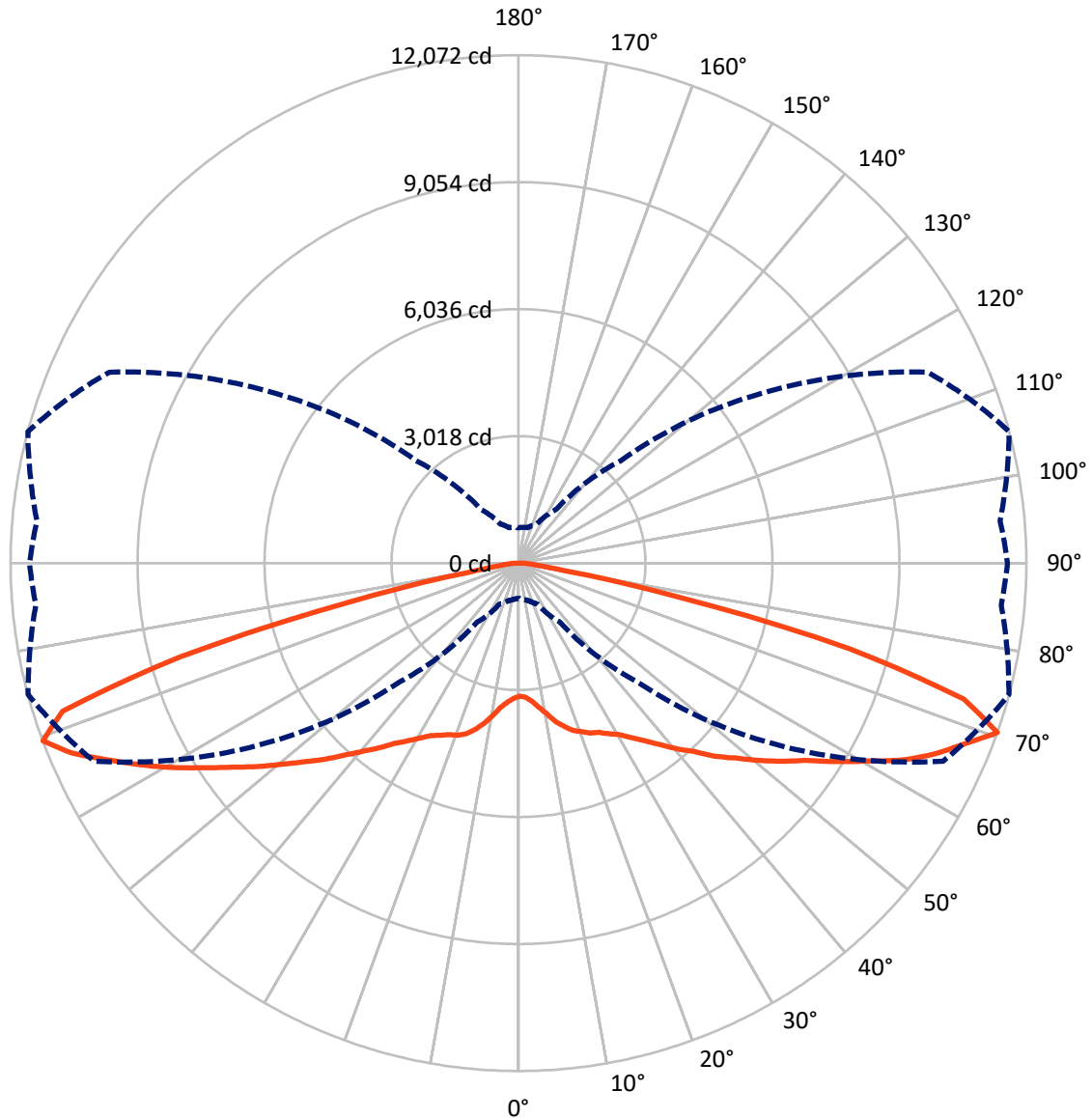
× Max cd
 - - - 1/2 Max cd



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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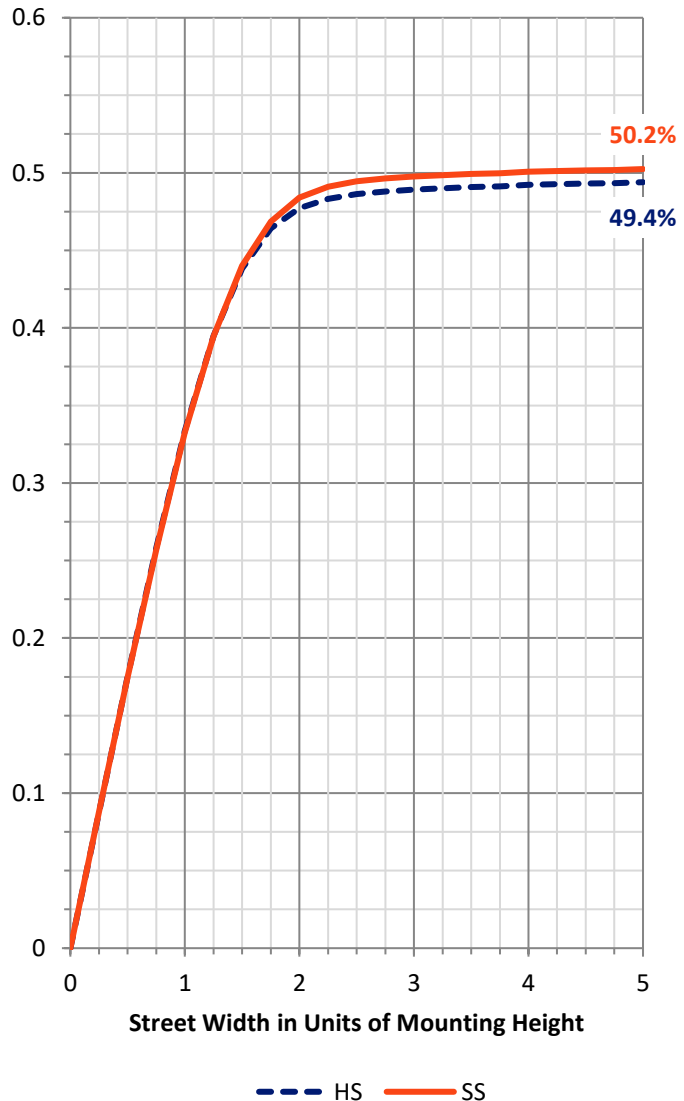
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15329.6	0.0	15329.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15549.3	0.0	15549.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	30878.8	0.0	30878.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.0
10°-20°	1071.6	3.5
20°-30°	2075.0	6.7
30°-40°	3509.7	11.4
40°-50°	5598.9	18.1
50°-60°	7663.7	24.8
60°-70°	7223.6	23.4
70°-80°	3182.2	10.3
80°-90°	239.4	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°	30878.8	100.0
0°-180°	30878.8	100.0

Coefficient of Utilization

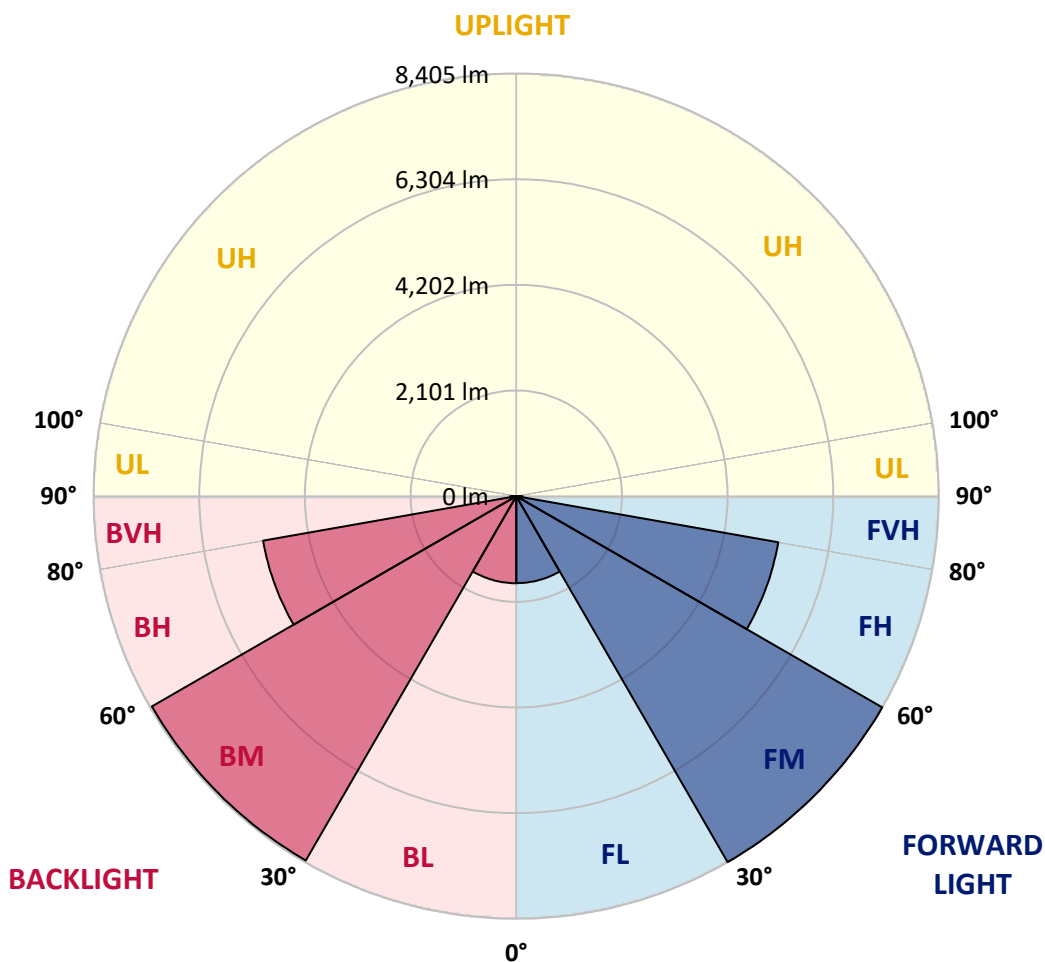


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.7	5.6			
FM (30°-60°)	8404.9	27.2			
FH (60°-80°)	5292.3	17.1			G3/7500
FVH (80°-90°)	122.3	0.4			G2/225
BL (0°-30°)	1731.6	5.6	B3/2500		
BM (30°-60°)	8367.4	27.1	B4/8500		
BH (60°-80°)	5113.5	16.6	B5		G5
BVH (80°-90°)	117.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0
2.5°	3142.0	3142.0	3138.7	3155.3	3171.9	3178.6	3191.9	3195.2	3215.2	3198.6	3231.9
5°	3132.0	3128.7	3155.3	3195.2	3195.2	3238.5	3265.1	3301.8	3311.7	3331.7	3338.4
7.5°	3201.9	3195.2	3181.9	3225.2	3261.8	3328.4	3365.0	3428.2	3451.5	3478.2	3508.1
10°	3245.2	3245.2	3231.9	3308.4	3341.7	3431.6	3511.4	3574.7	3664.5	3694.5	3697.8
12.5°	3251.8	3261.8	3301.8	3401.6	3494.8	3611.3	3671.2	3791.0	3880.9	3937.5	3957.4
15°	3351.7	3331.7	3375.0	3511.4	3647.9	3751.1	3857.6	3944.1	4073.9	4147.2	4193.8
17.5°	3441.5	3421.6	3501.5	3664.5	3804.3	3964.1	4057.3	4150.5	4243.7	4310.3	4313.6
20°	3584.7	3601.3	3671.2	3847.6	4030.7	4170.5	4277.0	4293.6	4340.2	4436.7	4420.1
22.5°	3761.1	3747.8	3894.2	4087.3	4287.0	4403.4	4463.4	4420.1	4396.8	4500.0	4523.3
25°	3937.5	3977.4	4110.6	4290.3	4529.9	4686.4	4703.0	4583.2	4496.6	4533.3	4523.3
27.5°	4207.1	4213.7	4353.5	4566.5	4809.5	4946.0	4936.0	4766.2	4599.8	4603.2	4609.8
30°	4553.2	4519.9	4673.0	4866.1	5105.7	5228.9	5245.5	5002.6	4779.6	4713.0	4729.6
32.5°	4886.1	4926.0	5059.1	5278.8	5455.2	5525.1	5488.5	5272.2	4982.6	4892.7	4902.7
35°	5312.1	5305.4	5488.5	5674.9	5808.0	5821.3	5791.4	5475.2	5202.3	5085.8	5039.2
37.5°	5768.1	5828.0	5947.8	6100.9	6240.7	6247.4	6084.3	5831.3	5495.2	5302.1	5358.7
40°	6277.3	6343.9	6430.4	6653.4	6756.6	6650.1	6483.7	6140.9	5791.4	5621.6	5648.3
42.5°	6726.7	6756.6	6933.0	7196.0	7245.9	7199.3	6953.0	6536.9	6130.9	5944.5	5957.8
45°	7139.4	7179.3	7409.0	7645.3	7761.8	7681.9	7395.7	6999.6	6527.0	6367.2	6304.0
47.5°	7518.8	7598.7	7821.7	8064.7	8244.4	8251.1	7898.2	7419.0	6919.7	6710.0	6706.7
50°	7775.1	7891.6	8111.3	8387.5	8650.5	8753.6	8400.8	7884.9	7349.1	7126.1	7102.8
52.5°	7914.9	8034.7	8254.4	8683.7	8976.6	9136.4	8970.0	8321.0	7851.6	7618.7	7582.1
55°	7745.1	7825.0	8184.5	8786.9	9239.6	9502.5	9392.7	8923.4	8350.9	8161.2	8194.5
57.5°	7022.9	7189.3	7632.0	8384.2	9232.9	9878.6	9868.6	9492.5	8926.7	8747.0	8753.6
60°	5781.4	5921.2	6467.0	7518.8	8860.1	10031.7	10384.5	10045.1	9572.4	9362.7	9356.1
62.5°	4080.6	4257.0	4889.4	6037.7	7761.8	9818.7	10977.0	10740.7	10204.8	10051.7	10108.3
65°	2283.3	2389.8	2975.6	4014.0	5914.5	8647.1	11083.5	11462.9	10847.2	10614.2	10624.2
67.5°	1221.5	1261.5	1534.4	2106.9	3617.9	6666.7	10008.4	11879.0	11542.8	11140.1	11076.9
70°	838.8	852.1	922.0	1078.4	1710.8	3987.4	7548.8	11136.8	12065.4	11516.2	11622.7
72.5°	708.9	702.3	718.9	735.6	895.3	1784.0	4430.1	8570.6	11389.7	11183.4	11143.4
75°	615.8	612.4	619.1	602.4	622.4	785.5	1960.4	5342.1	8337.6	9306.2	9455.9
77.5°	509.2	512.6	515.9	499.3	492.6	519.2	788.8	2346.5	4103.9	4529.9	4886.1
80°	386.1	392.7	419.4	402.7	376.1	379.4	466.0	785.5	1178.2	1068.4	1101.7
82.5°	262.9	266.3	322.9	302.9	282.9	256.3	299.6	406.1	459.3	349.5	306.2
85°	186.4	183.1	209.7	193.0	179.7	129.8	179.7	229.7	276.3	173.1	156.4
87.5°	43.3	43.3	86.5	69.9	66.6	53.3	69.9	89.9	119.8	76.6	69.9
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°	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0	3162.0
2.5°	3221.9	3191.9	3191.9	3185.3	3158.6	3152.0	3128.7	3135.3	3118.7	3102.1
5°	3335.0	3295.1	3295.1	3238.5	3185.3	3178.6	3152.0	3152.0	3125.3	3132.0
7.5°	3491.5	3454.9	3394.9	3345.0	3271.8	3241.8	3191.9	3185.3	3178.6	3165.3
10°	3677.9	3631.3	3571.4	3468.2	3408.3	3351.7	3301.8	3231.9	3215.2	3218.5
12.5°	3930.8	3857.6	3727.8	3637.9	3561.4	3488.1	3414.9	3311.7	3288.4	3298.4
15°	4110.6	4017.4	3887.5	3854.3	3751.1	3661.2	3541.4	3424.9	3385.0	3375.0
17.5°	4257.0	4180.4	4103.9	4054.0	3970.8	3860.9	3694.5	3561.4	3471.5	3461.5
20°	4376.8	4277.0	4260.3	4290.3	4187.1	4113.9	3910.8	3747.8	3627.9	3578.0
22.5°	4450.0	4386.8	4433.4	4460.0	4453.4	4330.2	4120.5	3930.8	3781.0	3734.4
25°	4529.9	4456.7	4623.1	4713.0	4736.3	4533.3	4370.2	4120.5	3974.1	3944.1
27.5°	4569.9	4596.5	4789.5	4979.3	4962.6	4806.2	4586.5	4363.5	4247.0	4193.8
30°	4686.4	4729.6	5022.5	5235.5	5238.9	5085.8	4919.3	4666.4	4536.6	4513.3
32.5°	4896.0	4949.3	5262.2	5488.5	5528.4	5411.9	5245.5	5089.1	4956.0	4902.7
35°	5055.8	5192.3	5545.1	5751.4	5857.9	5788.1	5694.9	5531.8	5392.0	5345.4
37.5°	5285.5	5475.2	5814.7	6094.3	6214.1	6207.4	6137.5	5961.1	5844.6	5804.7
40°	5615.0	5804.7	6114.2	6483.7	6706.7	6696.7	6656.8	6520.3	6347.2	6327.3
42.5°	5964.5	6120.9	6523.6	6946.3	7265.9	7232.6	7126.1	6966.3	6846.5	6819.9
45°	6304.0	6546.9	6919.7	7462.2	7701.9	7785.1	7658.6	7385.7	7249.2	7232.6
47.5°	6730.0	6923.0	7389.0	7874.9	8231.1	8244.4	8028.1	7775.1	7525.5	7578.7
50°	7109.4	7365.7	7838.3	8370.9	8796.9	8643.8	8367.5	8051.4	7871.6	7801.7
52.5°	7515.5	7828.4	8377.5	8920.1	9156.4	9003.3	8553.9	8201.1	7928.2	7898.2
55°	8107.9	8271.0	8990.0	9406.0	9482.6	9159.7	8497.4	7998.1	7645.3	7558.8
57.5°	8710.4	8900.1	9529.2	9888.6	9808.7	9073.2	8131.2	7359.0	6896.4	6773.3
60°	9319.5	9552.5	10081.7	10411.2	9998.5	8477.4	7096.1	6100.9	5561.7	5451.9
62.5°	9998.5	10301.3	10774.0	10890.5	9436.0	7299.1	5631.6	4403.4	3857.6	3674.5
65°	10600.9	10910.4	11492.9	10790.6	8241.1	5445.2	3641.2	2516.3	2113.5	1967.1
67.5°	11096.8	11446.3	11732.5	9549.1	6034.4	3188.6	1897.2	1324.7	1174.9	1121.7
70°	11489.6	12072.0	10734.0	7019.6	3448.2	1554.4	1025.1	872.0	852.1	838.8
72.5°	11146.7	11070.2	8014.7	4050.6	1511.1	855.4	742.2	718.9	715.6	718.9
75°	9116.4	8131.2	4792.9	1760.7	758.9	619.1	615.8	605.8	622.4	622.4
77.5°	4423.4	3867.6	2003.7	755.5	499.3	485.9	502.6	502.6	502.6	502.6
80°	1025.1	1135.0	715.6	459.3	362.8	362.8	399.4	402.7	386.1	379.4
82.5°	349.5	466.0	392.7	289.6	239.6	269.6	302.9	309.5	256.3	259.6
85°	173.1	272.9	213.0	166.4	123.2	166.4	196.4	206.4	176.4	169.7
87.5°	79.9	119.8	79.9	56.6	43.3	59.9	56.6	46.6	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)