

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: P481463

Luminaire Tested: **IFLD-L-SA8B-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

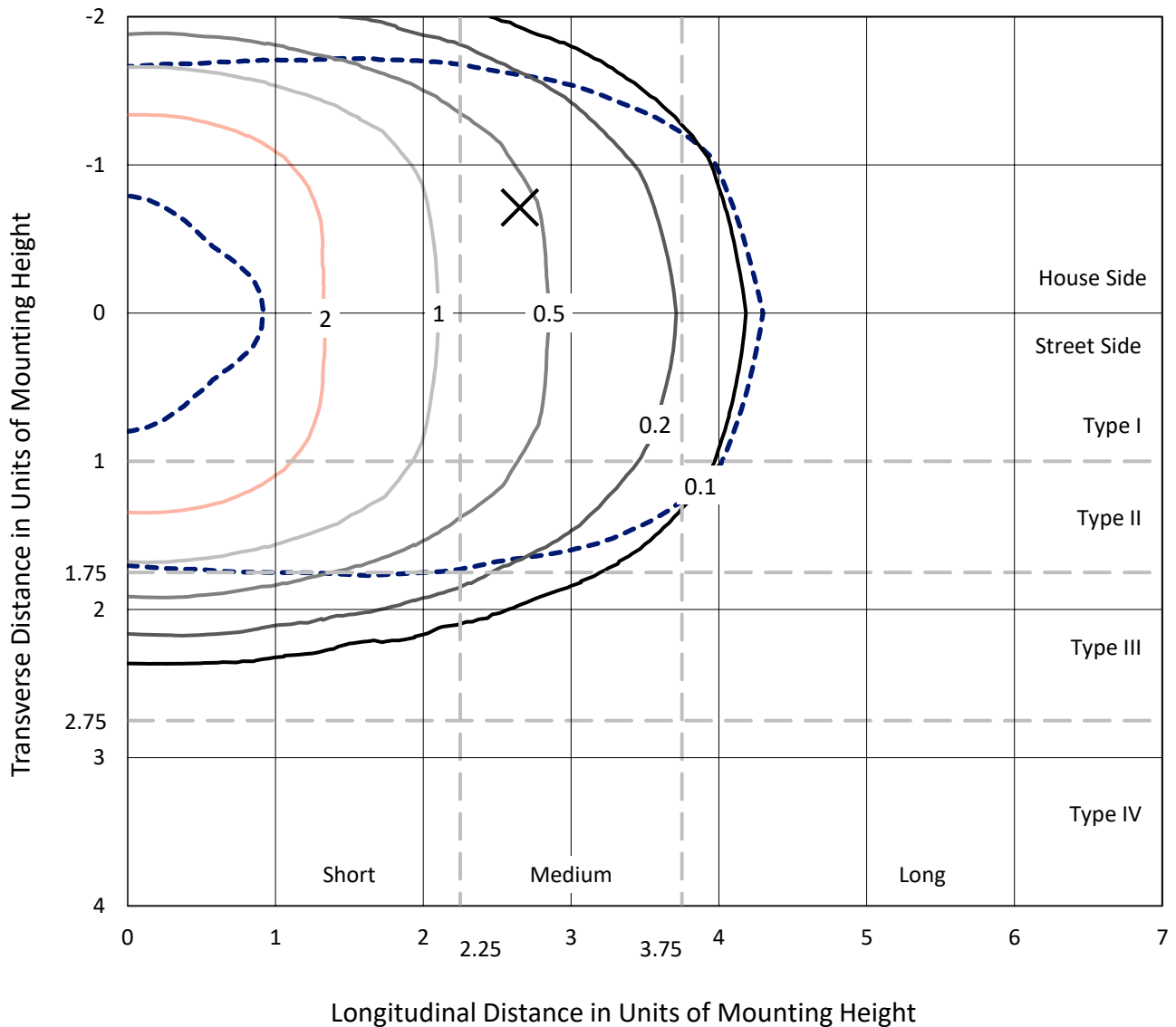
Lumens per Lamp: N/A
Luminaire Lumens: 33310.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

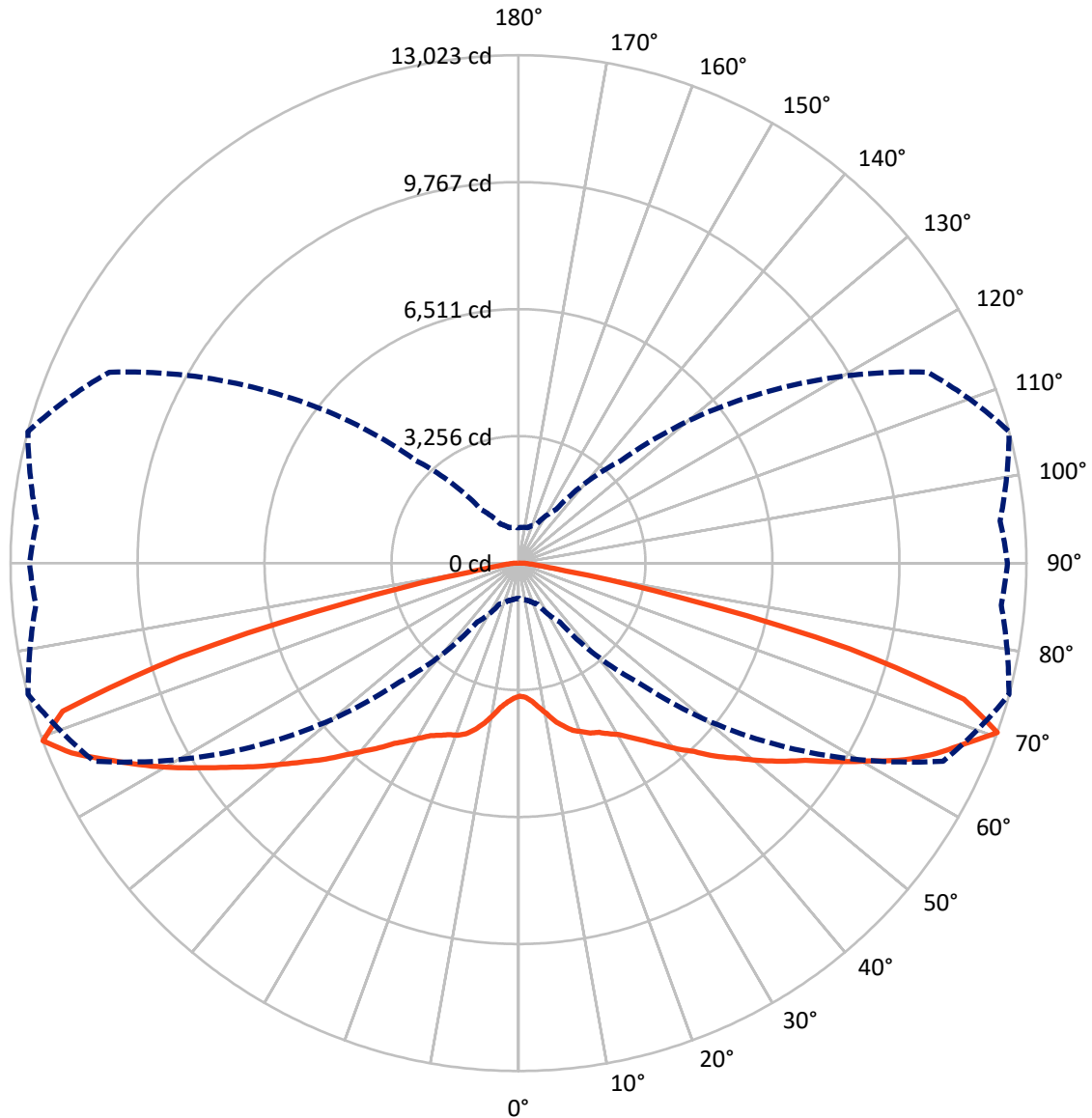
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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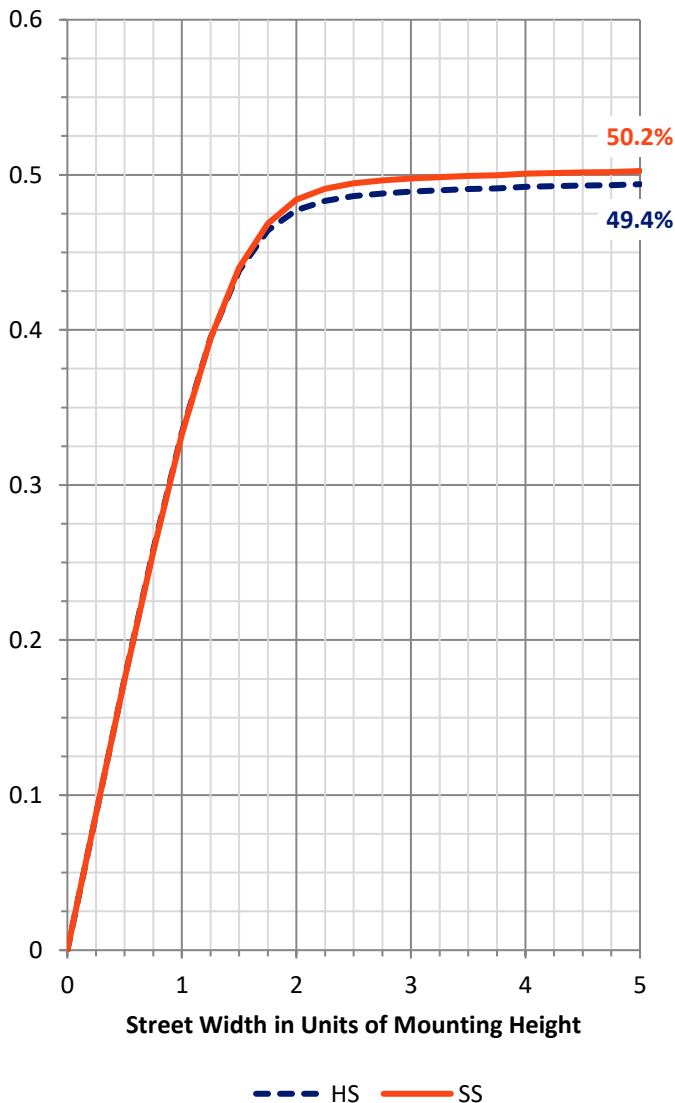
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16536.6	0.0	16536.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16773.6	0.0	16773.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	33310.2	0.0	33310.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	1.0
10°-20°	1156.0	3.5
20°-30°	2238.4	6.7
30°-40°	3786.0	11.4
40°-50°	6039.8	18.1
50°-60°	8267.2	24.8
60°-70°	7792.4	23.4
70°-80°	3432.8	10.3
80°-90°	258.3	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°	33310.2	100.0
0°-180°	33310.2	100.0

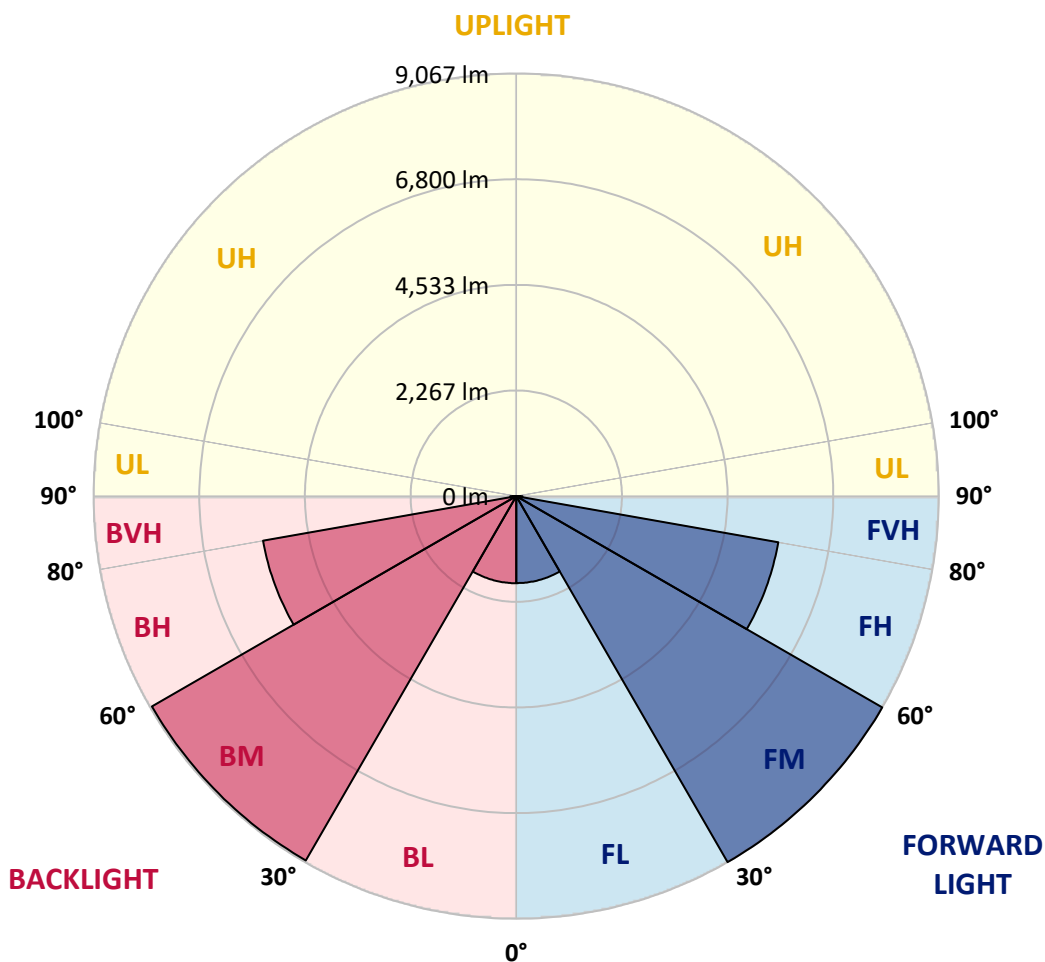


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.9	5.6			
FM (30°-60°)	9066.8	27.2			
FH (60°-80°)	5709.0	17.1			G3/7500
FVH (80°-90°)	131.9	0.4			G2/225
BL (0°-30°)	1867.9	5.6	B3/2500		
BM (30°-60°)	9026.2	27.1	B5		
BH (60°-80°)	5516.1	16.6	B5		G5
BVH (80°-90°)	126.3	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°	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9
2.5°	3389.4	3389.4	3385.8	3403.8	3421.7	3428.9	3443.2	3446.8	3468.4	3450.4	3486.3
5°	3378.6	3375.0	3403.8	3446.8	3446.8	3493.5	3522.2	3561.7	3572.5	3594.0	3601.2
7.5°	3454.0	3446.8	3432.5	3479.2	3518.6	3590.5	3630.0	3698.2	3723.3	3752.0	3784.3
10°	3500.7	3500.7	3486.3	3568.9	3604.8	3701.8	3787.9	3856.2	3953.1	3985.4	3989.0
12.5°	3507.9	3518.6	3561.7	3669.4	3770.0	3895.6	3960.3	4089.5	4186.5	4247.5	4269.1
15°	3615.6	3594.0	3640.7	3787.9	3935.1	4046.4	4161.3	4254.7	4394.7	4473.7	4524.0
17.5°	3712.5	3691.0	3777.2	3953.1	4103.9	4276.2	4376.8	4477.3	4577.8	4649.6	4653.2
20°	3866.9	3884.9	3960.3	4150.6	4348.0	4498.8	4613.7	4631.7	4682.0	4786.1	4768.1
22.5°	4057.2	4042.9	4200.8	4409.1	4624.5	4750.2	4814.8	4768.1	4743.0	4854.3	4879.4
25°	4247.5	4290.6	4434.2	4628.1	4886.6	5055.4	5073.3	4944.1	4850.7	4890.2	4879.4
27.5°	4538.3	4545.5	4696.3	4926.1	5188.2	5335.4	5324.6	5141.5	4962.0	4965.6	4972.8
30°	4911.7	4875.8	5041.0	5249.2	5507.8	5640.6	5658.6	5396.5	5155.9	5084.1	5102.0
32.5°	5270.8	5313.9	5457.5	5694.5	5884.8	5960.2	5920.7	5687.3	5374.9	5278.0	5288.7
35°	5730.4	5723.2	5920.7	6121.7	6265.3	6279.7	6247.4	5906.3	5611.9	5486.2	5436.0
37.5°	6222.3	6286.9	6416.1	6581.3	6732.1	6739.3	6563.4	6290.5	5927.8	5719.6	5780.6
40°	6771.6	6843.4	6936.8	7177.3	7288.6	7173.7	6994.2	6624.4	6247.4	6064.3	6093.0
42.5°	7256.3	7288.6	7478.9	7762.6	7816.4	7766.2	7500.5	7051.7	6613.6	6412.6	6426.9
45°	7701.5	7744.6	7992.4	8247.3	8372.9	8286.8	7978.0	7550.7	7040.9	6868.5	6800.3
47.5°	8110.8	8197.0	8437.6	8699.7	8893.6	8900.7	8520.2	8003.1	7464.6	7238.4	7234.8
50°	8387.3	8513.0	8749.9	9048.0	9331.6	9442.9	9062.3	8505.8	7927.7	7687.2	7662.0
52.5°	8538.1	8667.4	8904.3	9367.5	9683.5	9855.8	9676.3	8976.1	8469.9	8218.6	8179.1
55°	8355.0	8441.2	8828.9	9478.8	9967.1	10250.8	10132.3	9626.0	9008.5	8803.8	8839.7
57.5°	7575.9	7755.4	8232.9	9044.4	9959.9	10656.5	10645.7	10240.0	9629.6	9435.7	9442.9
60°	6236.6	6387.4	6976.3	8110.8	9557.8	10821.6	11202.2	10836.0	10326.2	10100.0	10092.8
62.5°	4401.9	4592.2	5274.4	6513.1	8372.9	10591.9	11841.3	11586.4	11008.3	10843.2	10904.2
65°	2463.1	2577.9	3209.9	4330.1	6380.2	9328.0	11956.2	12365.5	11701.3	11450.0	11460.7
67.5°	1317.7	1360.8	1655.2	2272.8	3902.8	7191.7	10796.5	12814.3	12451.7	12017.3	11949.0
70°	904.8	919.2	994.6	1163.3	1845.5	4301.4	8143.2	12013.7	13015.4	12423.0	12537.9
72.5°	764.8	757.6	775.5	793.5	965.8	1924.5	4778.9	9245.4	12286.5	12063.9	12020.9
75°	664.2	660.6	667.8	649.9	671.4	847.3	2114.8	5762.7	8994.1	10038.9	10200.5
77.5°	549.3	552.9	556.5	538.6	531.4	560.1	850.9	2531.3	4427.0	4886.6	5270.8
80°	416.5	423.7	452.4	434.4	405.7	409.3	502.7	847.3	1271.0	1152.5	1188.4
82.5°	283.6	287.2	348.3	326.7	305.2	276.5	323.1	438.0	495.5	377.0	330.3
85°	201.1	197.5	226.2	208.2	193.9	140.0	193.9	247.7	298.0	186.7	168.8
87.5°	46.7	46.7	93.4	75.4	71.8	57.4	75.4	96.9	129.3	82.6	75.4
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°	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9	3410.9
2.5°	3475.6	3443.2	3443.2	3436.1	3407.3	3400.2	3375.0	3382.2	3364.3	3346.3
5°	3597.6	3554.6	3554.6	3493.5	3436.1	3428.9	3400.2	3400.2	3371.4	3378.6
7.5°	3766.4	3726.9	3662.3	3608.4	3529.4	3497.1	3443.2	3436.1	3428.9	3414.5
10°	3967.5	3917.2	3852.6	3741.3	3676.6	3615.6	3561.7	3486.3	3468.4	3472.0
12.5°	4240.3	4161.3	4021.3	3924.4	3841.8	3762.8	3683.8	3572.5	3547.4	3558.1
15°	4434.2	4333.7	4193.7	4157.8	4046.4	3949.5	3820.2	3694.6	3651.5	3640.7
17.5°	4592.2	4509.6	4427.0	4373.2	4283.4	4164.9	3985.4	3841.8	3744.8	3734.1
20°	4721.5	4613.7	4595.8	4628.1	4516.8	4437.8	4218.8	4042.9	3913.6	3859.7
22.5°	4800.4	4732.2	4782.5	4811.2	4804.0	4671.2	4445.0	4240.3	4078.8	4028.5
25°	4886.6	4807.6	4987.1	5084.1	5109.2	4890.2	4714.3	4445.0	4287.0	4254.7
27.5°	4929.7	4958.4	5166.7	5371.3	5353.4	5184.6	4947.7	4707.1	4581.4	4524.0
30°	5055.4	5102.0	5418.0	5647.8	5651.4	5486.2	5306.7	5033.8	4893.8	4868.7
32.5°	5281.6	5339.0	5676.5	5920.7	5963.8	5838.1	5658.6	5489.8	5346.2	5288.7
35°	5453.9	5601.1	5981.7	6204.3	6319.2	6243.8	6143.3	5967.3	5816.5	5766.3
37.5°	5701.6	5906.3	6272.5	6574.1	6703.4	6696.2	6620.8	6430.5	6304.8	6261.8
40°	6057.1	6261.8	6595.7	6994.2	7234.8	7224.0	7180.9	7033.7	6847.0	6825.5
42.5°	6434.1	6602.9	7037.3	7493.3	7838.0	7802.1	7687.2	7514.8	7385.6	7356.8
45°	6800.3	7062.4	7464.6	8049.8	8308.3	8398.1	8261.6	7967.2	7820.0	7802.1
47.5°	7259.9	7468.2	7970.8	8495.0	8879.2	8893.6	8660.2	8387.3	8118.0	8175.5
50°	7669.2	7945.7	8455.5	9030.0	9489.6	9324.4	9026.4	8685.3	8491.4	8416.0
52.5°	8107.3	8444.8	9037.2	9622.4	9877.3	9712.2	9227.5	8846.9	8552.5	8520.2
55°	8746.4	8922.3	9697.8	10146.6	10229.2	9880.9	9166.4	8627.9	8247.3	8153.9
57.5°	9396.2	9600.9	10279.5	10667.3	10581.1	9787.6	8771.5	7938.5	7439.4	7306.6
60°	10053.3	10304.6	10875.5	11231.0	10785.7	9144.9	7654.9	6581.3	5999.7	5881.2
62.5°	10785.7	11112.5	11622.3	11748.0	10178.9	7873.9	6075.1	4750.2	4161.3	3963.9
65°	11435.6	11769.5	12397.9	11640.3	8890.0	5874.0	3928.0	2714.4	2279.9	2122.0
67.5°	11970.6	12347.6	12656.4	10301.0	6509.5	3439.7	2046.6	1429.0	1267.4	1210.0
70°	12394.3	13022.6	11579.2	7572.3	3719.7	1676.7	1105.9	940.7	919.2	904.8
72.5°	12024.4	11941.9	8645.8	4369.6	1630.1	922.7	800.7	775.5	771.9	775.5
75°	9834.3	8771.5	5170.3	1899.4	818.6	667.8	664.2	653.5	671.4	671.4
77.5°	4771.7	4172.1	2161.5	815.0	538.6	524.2	542.2	542.2	542.2	542.2
80°	1105.9	1224.3	771.9	495.5	391.4	391.4	430.9	434.4	416.5	409.3
82.5°	377.0	502.7	423.7	312.4	258.5	290.8	326.7	333.9	276.5	280.1
85°	186.7	294.4	229.8	179.5	132.8	179.5	211.8	222.6	190.3	183.1
87.5°	86.2	129.3	86.2	61.0	46.7	64.6	61.0	50.3	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)