

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: P481306

Luminaire Tested: **IFLD-L-SA8A-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

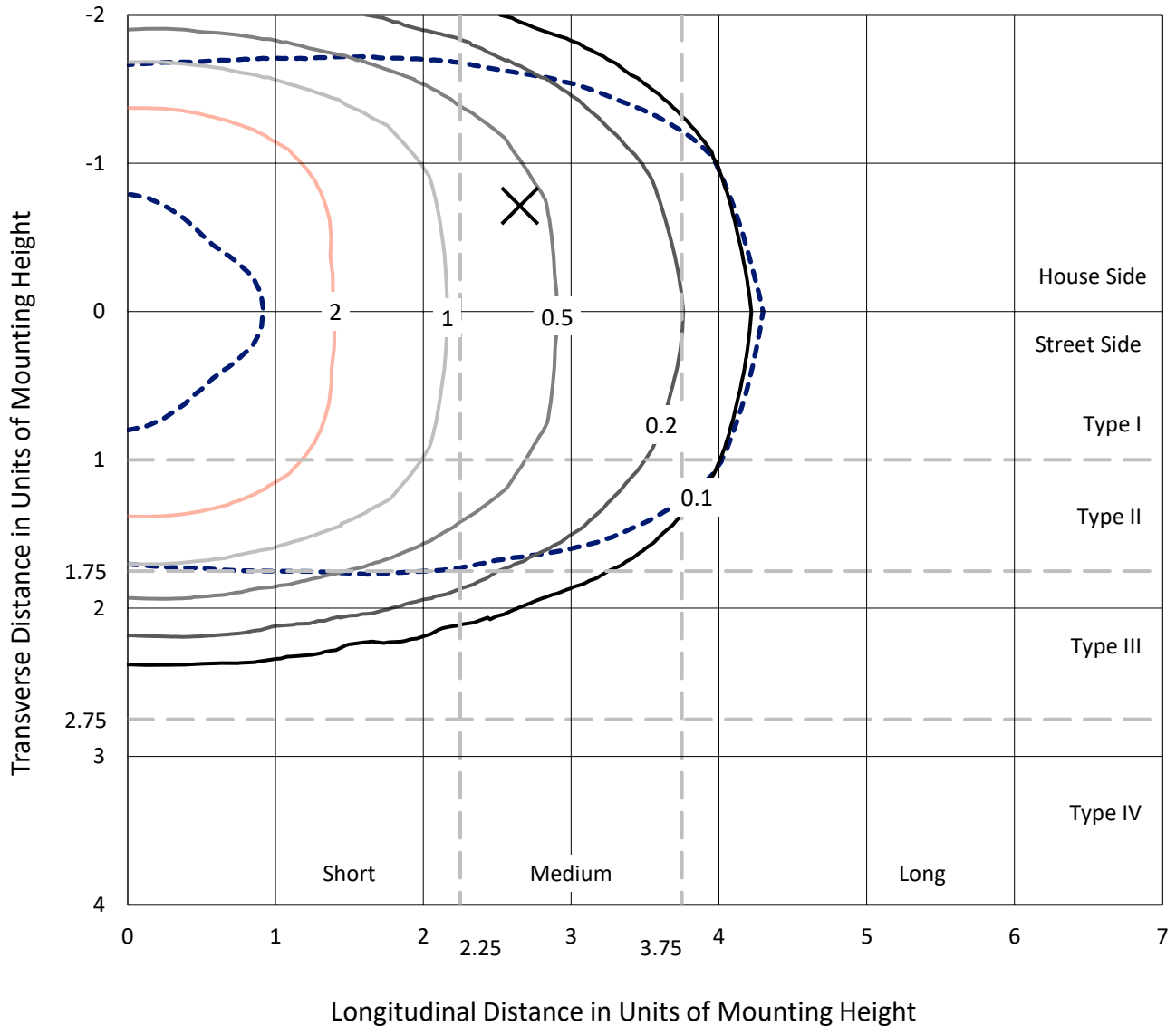
Lumens per Lamp: N/A
Luminaire Lumens: 35284.9 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 247.8
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

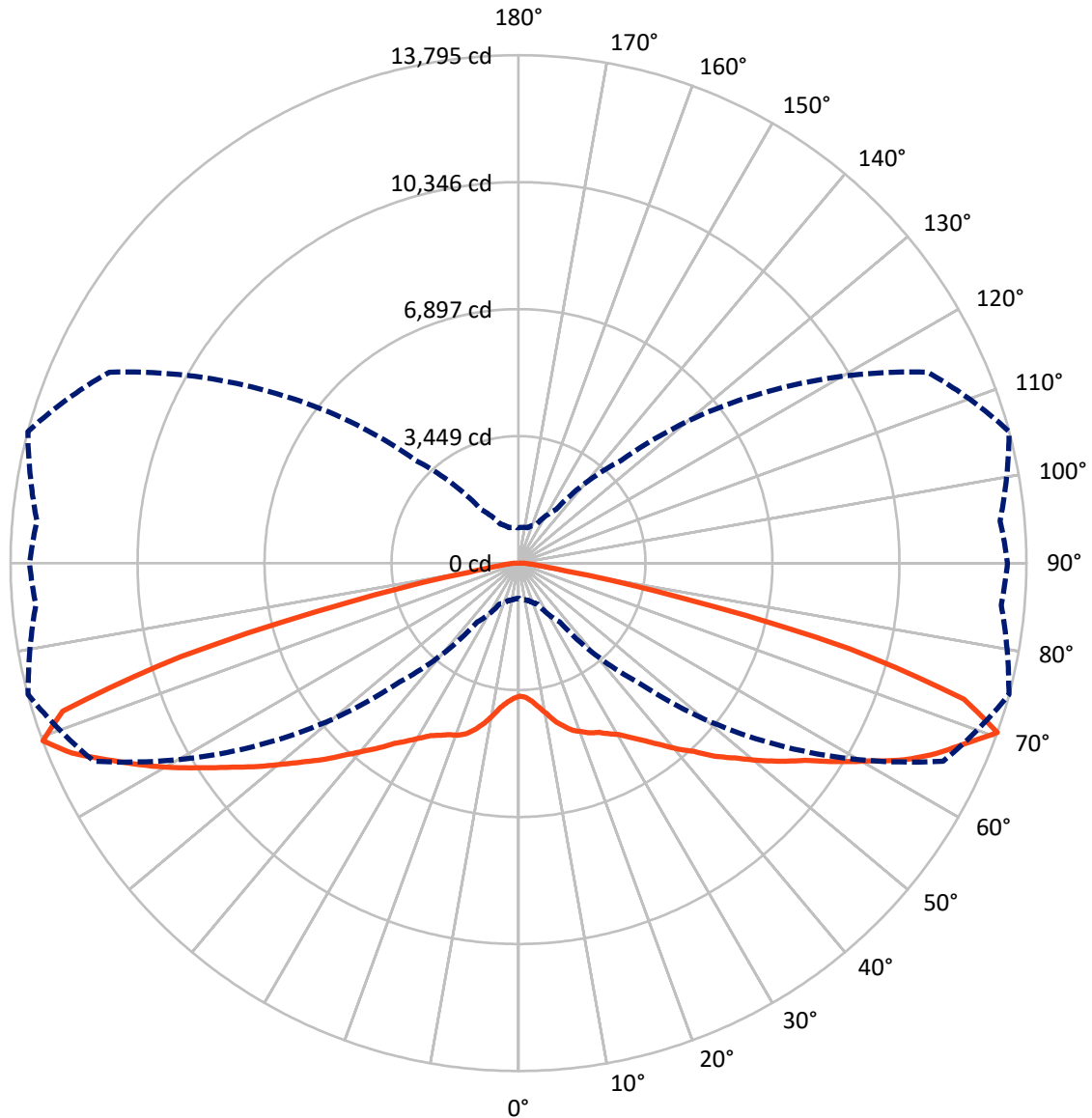
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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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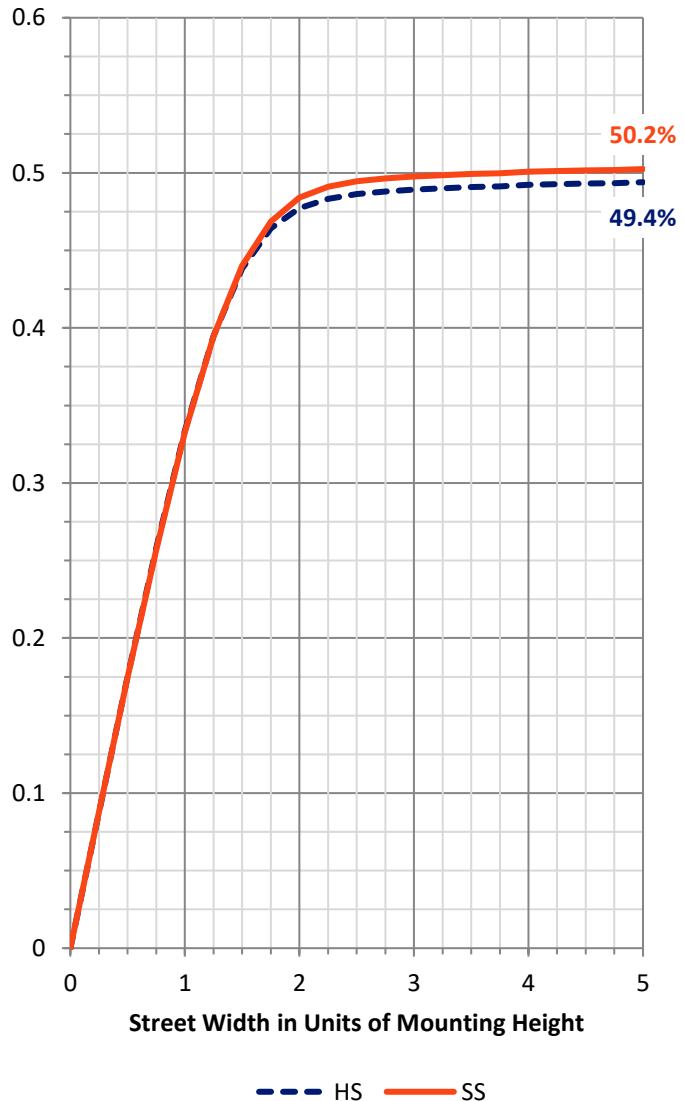
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17516.9	0.0	17516.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17768.0	0.0	17768.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	35284.9	0.0	35284.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.0
10°-20°	1224.5	3.5
20°-30°	2371.1	6.7
30°-40°	4010.4	11.4
40°-50°	6397.8	18.1
50°-60°	8757.2	24.8
60°-70°	8254.3	23.4
70°-80°	3636.3	10.3
80°-90°	273.6	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°	35284.9	100.0
0°-180°	35284.9	100.0

Coefficient of Utilization

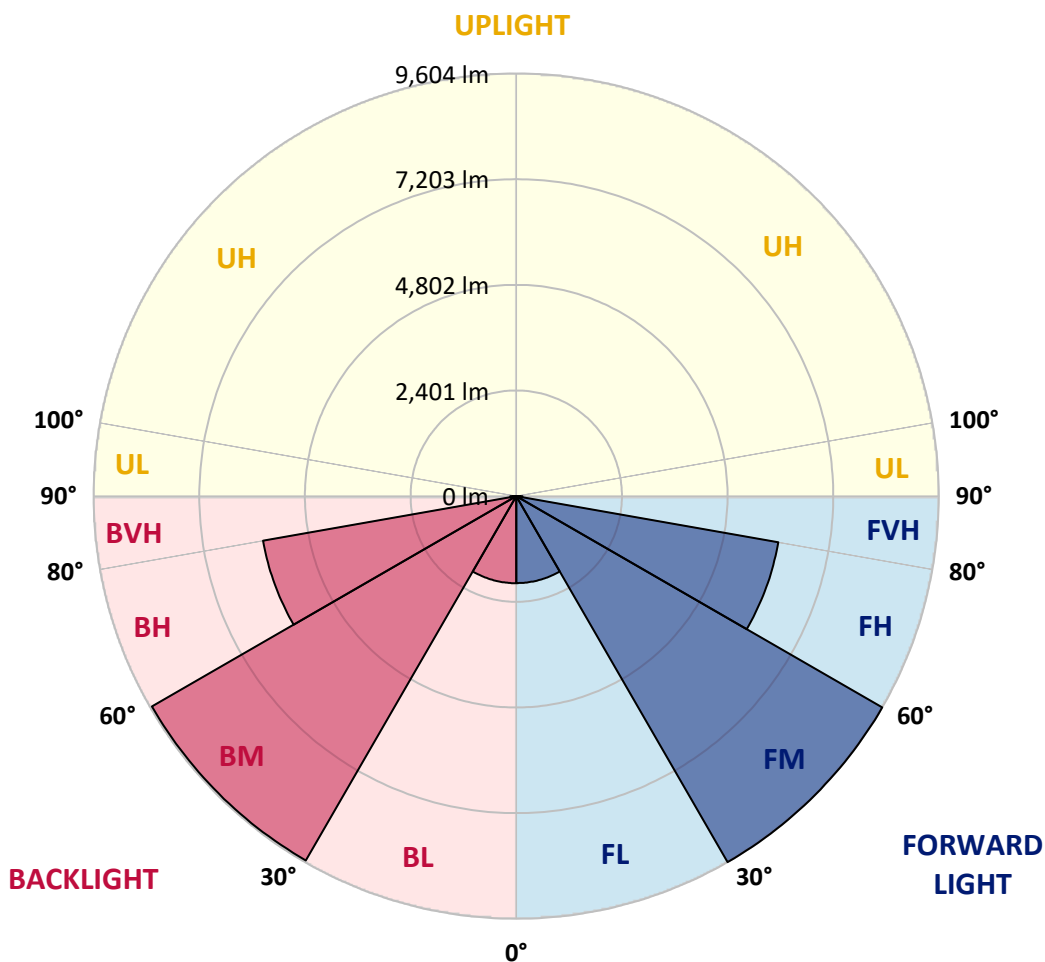


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.5	5.6			
FM (30°-60°)	9604.2	27.2			
FH (60°-80°)	6047.4	17.1			G3/7500
FVH (80°-90°)	139.8	0.4			G2/225
BL (0°-30°)	1978.7	5.6	B3/2500		
BM (30°-60°)	9561.3	27.1	B5		
BH (60°-80°)	5843.1	16.6	B5		G5
BVH (80°-90°)	133.8	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°	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1
2.5°	3590.3	3590.3	3586.5	3605.5	3624.5	3632.2	3647.4	3651.2	3674.0	3655.0	3693.0
5°	3578.9	3575.1	3605.5	3651.2	3651.2	3700.6	3731.0	3772.9	3784.3	3807.1	3814.7
7.5°	3658.8	3651.2	3636.0	3685.4	3727.2	3803.3	3845.1	3917.4	3944.0	3974.4	4008.7
10°	3708.2	3708.2	3693.0	3780.5	3818.5	3921.2	4012.5	4084.7	4187.4	4221.7	4225.5
12.5°	3715.8	3727.2	3772.9	3887.0	3993.5	4126.6	4195.0	4332.0	4434.6	4499.3	4522.1
15°	3829.9	3807.1	3856.5	4012.5	4168.4	4286.3	4408.0	4506.9	4655.2	4738.9	4792.2
17.5°	3932.6	3909.8	4001.1	4187.4	4347.2	4529.7	4636.2	4742.7	4849.2	4925.3	4929.1
20°	4096.2	4115.2	4195.0	4396.6	4605.8	4765.5	4887.2	4906.3	4959.5	5069.8	5050.8
22.5°	4297.7	4282.5	4449.9	4670.5	4898.7	5031.8	5100.2	5050.8	5024.2	5142.1	5168.7
25°	4499.3	4544.9	4697.1	4902.5	5176.3	5355.0	5374.1	5237.1	5138.3	5180.1	5168.7
27.5°	4807.4	4815.0	4974.7	5218.1	5495.8	5651.7	5640.3	5446.3	5256.2	5260.0	5267.6
30°	5202.9	5164.9	5339.8	5560.4	5834.3	5975.0	5994.0	5716.4	5461.5	5385.5	5404.5
32.5°	5583.2	5628.9	5781.0	6032.0	6233.6	6313.5	6271.6	6024.4	5693.5	5590.9	5602.3
35°	6070.1	6062.5	6271.6	6484.6	6636.8	6652.0	6617.7	6256.4	5944.6	5811.4	5758.2
37.5°	6591.1	6659.6	6796.5	6971.4	7131.2	7138.8	6952.4	6663.4	6279.2	6058.7	6123.3
40°	7173.0	7249.1	7348.0	7602.8	7720.7	7599.0	7408.8	7017.1	6617.7	6423.8	6454.2
42.5°	7686.5	7720.7	7922.3	8222.7	8279.8	8226.5	7945.1	7469.7	7005.7	6792.7	6807.9
45°	8158.1	8203.7	8466.1	8736.2	8869.3	8778.0	8450.9	7998.3	7458.3	7275.7	7203.5
47.5°	8591.7	8682.9	8937.8	9215.4	9420.8	9428.4	9025.2	8477.6	7907.1	7667.5	7663.6
50°	8884.5	9017.6	9268.6	9584.3	9884.8	10002.7	9599.5	9010.0	8397.7	8142.9	8116.2
52.5°	9044.2	9181.2	9432.2	9922.8	10257.5	10440.1	10249.9	9508.2	8972.0	8705.8	8663.9
55°	8850.3	8941.6	9352.3	10040.7	10558.0	10858.4	10732.9	10196.6	9542.5	9325.7	9363.7
57.5°	8025.0	8215.1	8721.0	9580.5	10550.4	11288.2	11276.8	10847.0	10200.5	9995.1	10002.7
60°	6606.3	6766.1	7389.8	8591.7	10124.4	11463.1	11866.3	11478.4	10938.3	10698.7	10691.1
62.5°	4662.8	4864.4	5587.0	6899.2	8869.3	11219.7	12543.3	12273.2	11660.9	11486.0	11550.6
65°	2609.1	2730.8	3400.2	4586.8	6758.5	9881.0	12665.0	13098.6	12395.0	12128.7	12140.1
67.5°	1395.8	1441.5	1753.3	2407.5	4134.2	7618.0	11436.5	13574.0	13189.8	12729.6	12657.4
70°	958.4	973.6	1053.5	1232.3	1954.9	4556.4	8625.9	12725.8	13787.0	13159.4	13281.1
72.5°	810.1	802.5	821.5	840.5	1023.1	2038.6	5062.2	9793.5	13014.9	12779.1	12733.4
75°	703.6	699.8	707.4	688.4	711.2	897.6	2240.1	6104.3	9527.3	10634.0	10805.2
77.5°	581.9	585.7	589.5	570.5	562.9	593.3	901.4	2681.3	4689.5	5176.3	5583.2
80°	441.2	448.8	479.2	460.2	429.8	433.6	532.5	897.6	1346.4	1220.9	1258.9
82.5°	300.5	304.3	368.9	346.1	323.3	292.9	342.3	464.0	524.9	399.3	349.9
85°	213.0	209.2	239.6	220.6	205.4	148.3	205.4	262.4	315.7	197.8	178.8
87.5°	49.4	49.4	98.9	79.9	76.1	60.9	79.9	102.7	136.9	87.5	79.9
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°	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1	3613.1
2.5°	3681.6	3647.4	3647.4	3639.8	3609.3	3601.7	3575.1	3582.7	3563.7	3544.7
5°	3810.9	3765.3	3765.3	3700.6	3639.8	3632.2	3601.7	3601.7	3571.3	3578.9
7.5°	3989.7	3947.8	3879.4	3822.3	3738.6	3704.4	3647.4	3639.8	3632.2	3616.9
10°	4202.6	4149.4	4080.9	3963.0	3894.6	3829.9	3772.9	3693.0	3674.0	3677.8
12.5°	4491.7	4408.0	4259.7	4157.0	4069.5	3985.9	3902.2	3784.3	3757.7	3769.1
15°	4697.1	4590.6	4442.3	4404.2	4286.3	4183.6	4046.7	3913.6	3868.0	3856.5
17.5°	4864.4	4776.9	4689.5	4632.4	4537.3	4411.8	4221.7	4069.5	3966.8	3955.4
20°	5001.3	4887.2	4868.2	4902.5	4784.6	4700.9	4468.9	4282.5	4145.6	4088.5
22.5°	5085.0	5012.7	5066.0	5096.4	5088.8	4948.1	4708.5	4491.7	4320.5	4267.3
25°	5176.3	5092.6	5282.8	5385.5	5412.1	5180.1	4993.7	4708.5	4541.1	4506.9
27.5°	5221.9	5252.4	5472.9	5689.7	5670.7	5492.0	5240.9	4986.1	4853.0	4792.2
30°	5355.0	5404.5	5739.2	5982.6	5986.4	5811.4	5621.3	5332.2	5183.9	5157.3
32.5°	5594.7	5655.5	6013.0	6271.6	6317.3	6184.2	5994.0	5815.2	5663.1	5602.3
35°	5777.2	5933.1	6336.3	6572.1	6693.8	6613.9	6507.4	6321.1	6161.3	6108.1
37.5°	6039.6	6256.4	6644.4	6963.8	7100.8	7093.2	7013.3	6811.7	6678.6	6633.0
40°	6416.2	6633.0	6986.7	7408.8	7663.6	7652.2	7606.6	7450.7	7252.9	7230.1
42.5°	6815.5	6994.3	7454.5	7937.5	8302.6	8264.6	8142.9	7960.3	7823.4	7793.0
45°	7203.5	7481.1	7907.1	8527.0	8800.8	8895.9	8751.4	8439.5	8283.6	8264.6
47.5°	7690.3	7910.9	8443.3	8998.6	9405.6	9420.8	9173.6	8884.5	8599.3	8660.1
50°	8123.8	8416.7	8956.8	9565.3	10052.1	9877.2	9561.5	9200.2	8994.8	8914.9
52.5°	8587.9	8945.4	9572.9	10192.8	10462.9	10287.9	9774.5	9371.3	9059.5	9025.2
55°	9264.8	9451.2	10272.7	10748.1	10835.6	10466.7	9709.8	9139.3	8736.2	8637.3
57.5°	9953.2	10170.0	10888.8	11299.6	11208.3	10367.8	9291.5	8409.1	7880.4	7739.7
60°	10649.2	10915.5	11520.2	11896.7	11425.1	9687.0	8108.6	6971.4	6355.3	6229.8
62.5°	11425.1	11771.2	12311.3	12444.4	10782.4	8340.6	6435.2	5031.8	4408.0	4198.8
65°	12113.5	12467.2	13132.8	12330.3	9417.0	6222.2	4160.8	2875.3	2415.1	2247.8
67.5°	12680.2	13079.5	13406.6	10911.7	6895.4	3643.6	2167.9	1513.7	1342.6	1281.7
70°	13129.0	13794.6	12265.6	8021.2	3940.2	1776.1	1171.4	996.5	973.6	958.4
72.5°	12737.3	12649.8	9158.3	4628.6	1726.7	977.4	848.1	821.5	817.7	821.5
75°	10417.2	9291.5	5476.8	2011.9	867.2	707.4	703.6	692.2	711.2	711.2
77.5°	5054.6	4419.4	2289.6	863.3	570.5	555.3	574.3	574.3	574.3	574.3
80°	1171.4	1296.9	817.7	524.9	414.6	414.6	456.4	460.2	441.2	433.6
82.5°	399.3	532.5	448.8	330.9	273.8	308.1	346.1	353.7	292.9	296.7
85°	197.8	311.9	243.4	190.2	140.7	190.2	224.4	235.8	201.6	194.0
87.5°	91.3	136.9	91.3	64.7	49.4	68.5	64.7	53.2	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)