

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: P478959

Luminaire Tested: **IFLD-M-SA4D-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478959
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

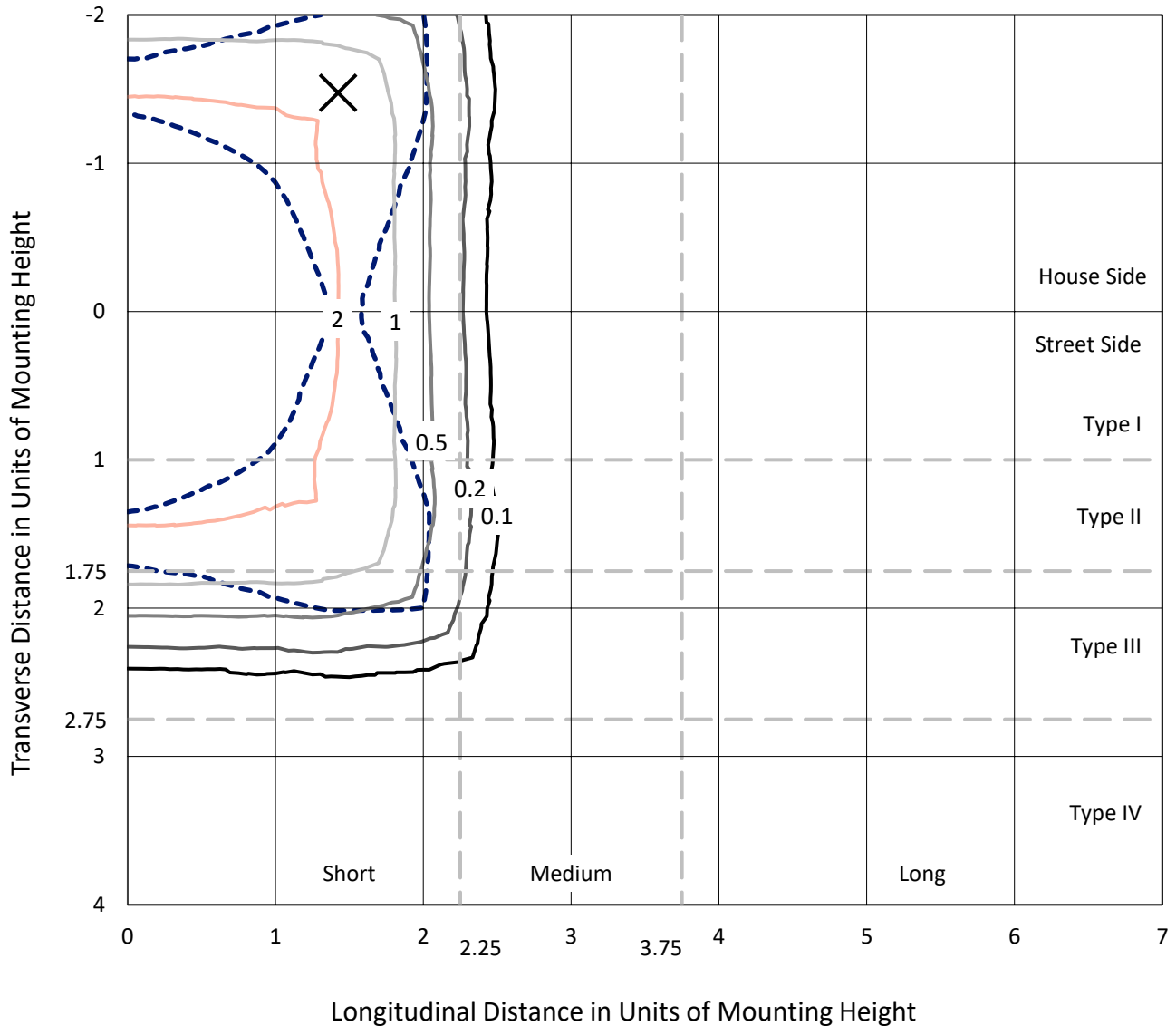
Lumens per Lamp: N/A
Luminaire Lumens: 31201.8 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 249.7
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

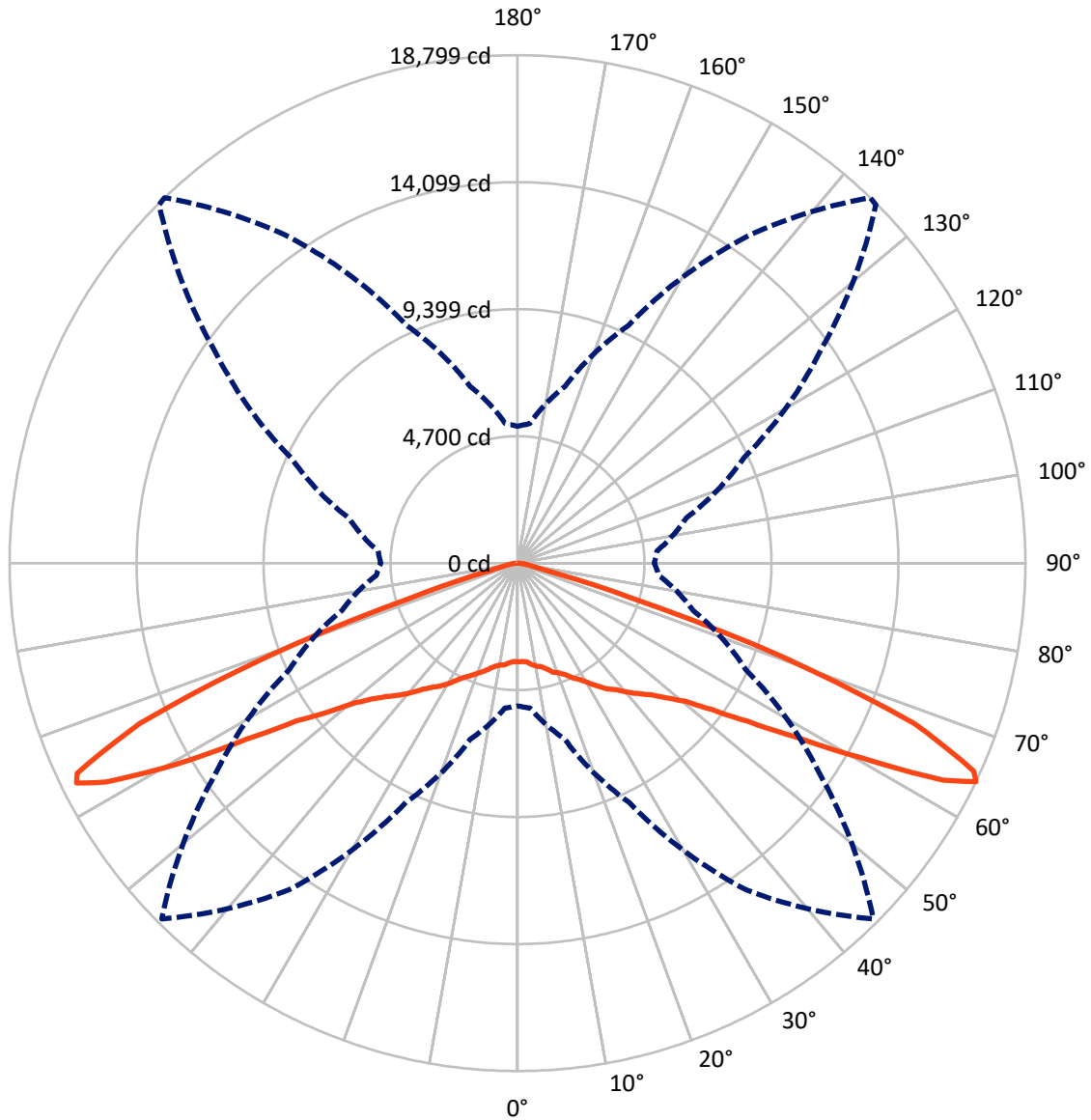
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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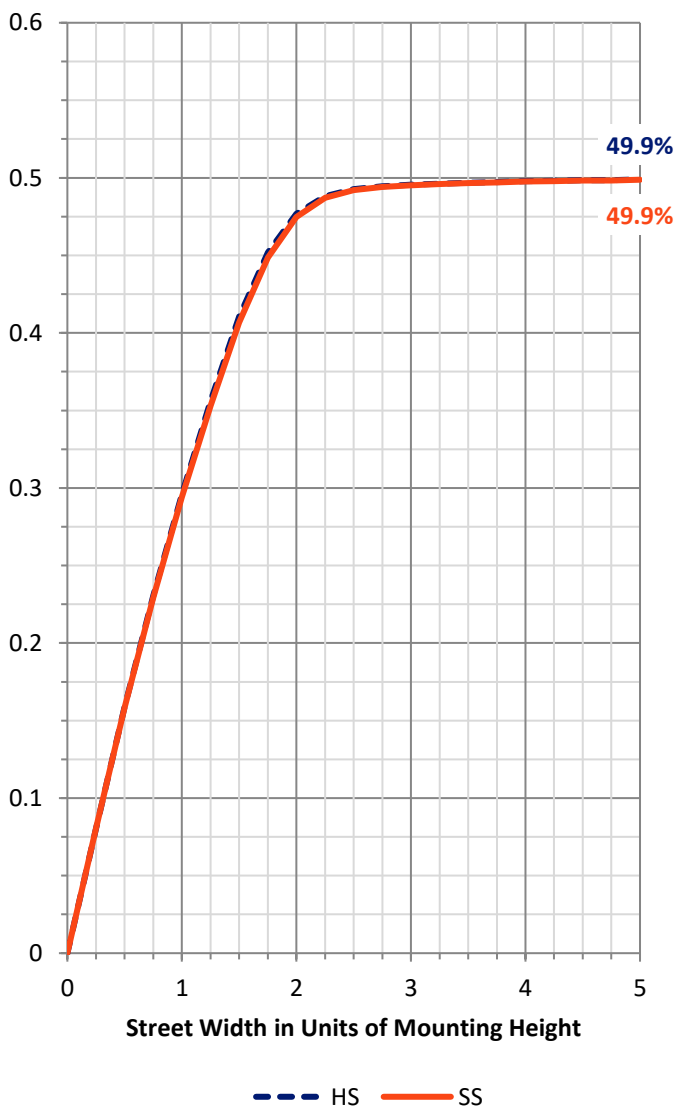
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15615.7	0.0	15615.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15586.0	0.0	15586.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31201.8	0.0	31201.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	1.2
10°-20°	1156.9	3.7
20°-30°	2174.2	7.0
30°-40°	3585.7	11.5
40°-50°	5607.8	18.0
50°-60°	9060.8	29.0
60°-70°	8158.7	26.1
70°-80°	966.4	3.1
80°-90°	132.3	0.4
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°	31201.8	100.0
0°-180°	31201.8	100.0

Coefficient of Utilization



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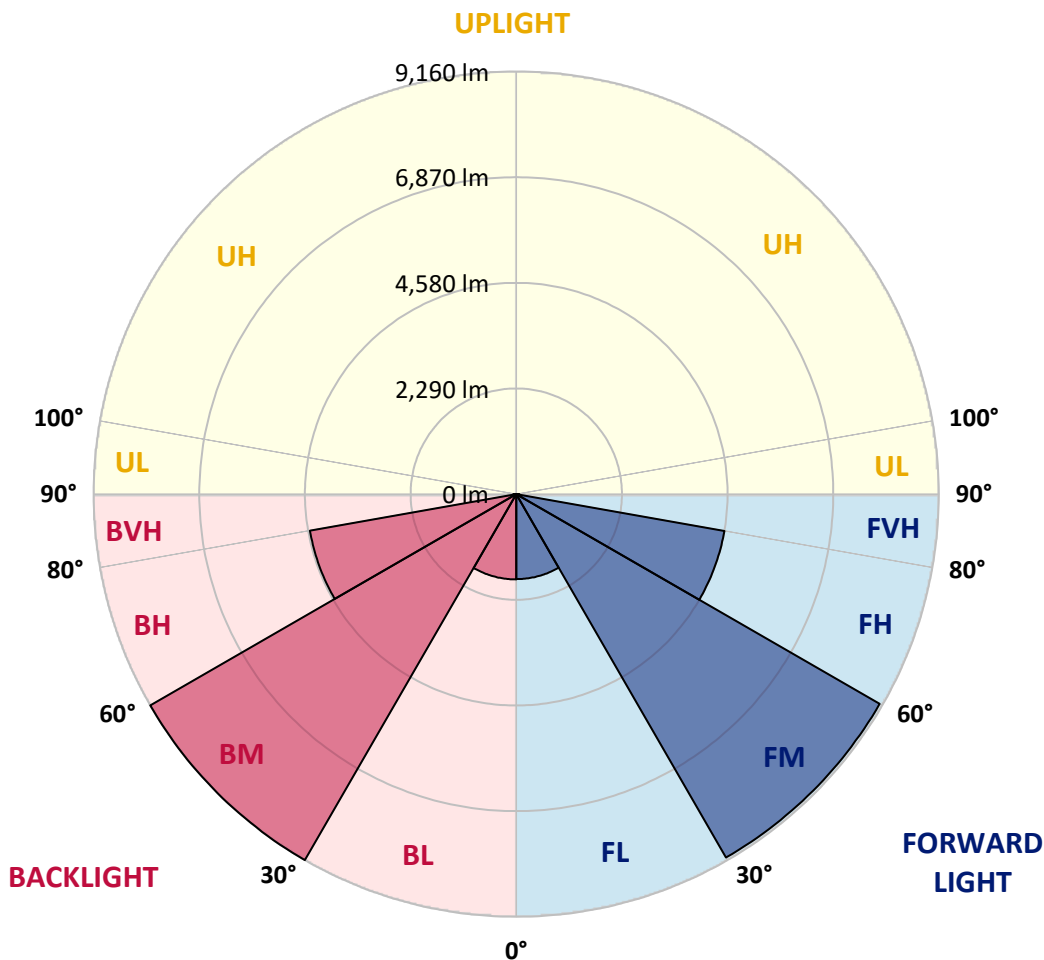
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.5	5.9			
FM (30°-60°)	9094.3	29.1			
FH (60°-80°)	4582.3	14.7			G2/5000
FVH (80°-90°)	67.9	0.2			G1/100
BL (0°-30°)	1848.6	5.9	B3/2500		
BM (30°-60°)	9160.0	29.4	B5		
BH (60°-80°)	4542.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	64.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1
2.5°	3610.1	3617.3	3681.7	3656.7	3678.1	3638.8	3667.4	3728.2	3656.7	3710.3	3728.2
5°	3649.5	3660.2	3660.2	3685.3	3699.6	3692.4	3710.3	3685.3	3753.3	3724.6	3767.6
7.5°	3792.6	3774.7	3746.1	3767.6	3771.2	3789.0	3806.9	3839.1	3828.4	3803.4	3846.3
10°	3817.7	3803.4	3846.3	3849.9	3832.0	3817.7	3835.6	3835.6	3867.8	3874.9	3874.9
12.5°	3860.6	3874.9	3871.3	3900.0	3903.5	3892.8	3921.4	3975.1	3960.8	3971.5	3946.5
15°	4025.2	4007.3	4003.7	4032.3	4078.9	4010.9	4061.0	4057.4	4043.1	4064.5	4007.3
17.5°	4168.3	4111.1	4136.1	4182.6	4164.7	4179.0	4243.4	4186.2	4200.5	4175.5	4157.6
20°	4293.5	4247.0	4250.6	4268.5	4268.5	4311.4	4336.5	4315.0	4300.7	4297.1	4304.3
22.5°	4433.1	4379.4	4383.0	4458.1	4483.2	4468.9	4451.0	4486.7	4493.9	4465.3	4497.5
25°	4536.8	4594.1	4612.0	4647.8	4594.1	4633.4	4619.1	4687.1	4730.0	4672.8	4712.2
27.5°	4808.8	4783.7	4830.2	4826.7	4869.6	4830.2	4855.3	4876.7	4894.6	4898.2	4880.3
30°	5052.1	5062.8	5016.3	5141.5	5041.3	5105.7	5148.7	5159.4	5180.9	5180.9	5127.2
32.5°	5309.7	5288.2	5363.3	5334.7	5316.8	5366.9	5320.4	5467.1	5381.2	5431.3	5370.5
35°	5599.5	5599.5	5628.1	5706.8	5599.5	5567.3	5653.2	5714.0	5714.0	5624.5	5646.0
37.5°	5925.1	5896.5	5932.2	6032.4	5950.1	5842.8	6000.2	6025.3	6007.4	5982.3	5939.4
40°	6154.1	6146.9	6218.5	6350.9	6232.8	6211.3	6239.9	6307.9	6329.4	6354.4	6297.2
42.5°	6540.5	6572.7	6780.2	6748.0	6651.4	6576.3	6569.1	6823.1	6762.3	6697.9	6665.7
45°	7113.0	7084.3	7191.7	7195.3	7070.0	6905.4	6941.2	7173.8	7277.5	7134.4	7188.1
47.5°	7567.4	7581.7	7656.8	7810.7	7520.8	7349.1	7481.5	7857.2	7825.0	7771.3	7821.4
50°	8175.6	8240.0	8476.2	8422.5	8164.9	7953.8	8243.6	8597.8	8637.2	8440.4	8404.6
52.5°	9016.4	9116.6	9245.4	9288.4	9041.5	8966.3	8984.2	9424.3	9327.7	9138.1	9016.4
55°	9753.5	9800.0	10036.1	10390.4	10372.5	10011.1	10218.6	10383.2	9989.6	9599.6	9631.8
57.5°	10068.3	10089.8	10748.2	11456.6	11878.8	11961.1	11724.9	11170.4	10232.9	9481.6	9435.0
60°	9284.8	9488.7	10283.0	11882.4	13810.9	14762.6	13191.9	11259.8	9664.0	8751.7	8683.7
62.5°	7420.7	7431.4	8612.1	11038.0	15013.1	17506.9	13753.6	10419.0	8147.0	7113.0	6841.0
64°	5284.6	5384.8	6740.9	9771.4	14762.6	18623.2	13685.6	9320.6	6715.8	5248.8	5059.2
65°	3792.6	3932.2	5241.7	8483.3	14175.8	18490.8	13481.7	8376.0	5431.3	4007.3	3814.1
67.5°	1395.4	1452.6	2057.3	4243.4	10179.3	15757.3	10683.8	4604.8	2386.5	1699.5	1527.8
70°	647.6	651.2	762.1	1402.6	4451.0	10537.1	5098.6	1728.1	898.1	712.0	661.9
72.5°	475.9	486.6	533.1	647.6	1309.5	4461.7	1674.5	708.4	526.0	465.1	454.4
75°	386.4	393.6	407.9	468.7	604.7	1195.0	679.8	490.2	418.6	375.7	361.4
77.5°	297.0	297.0	329.2	357.8	400.7	558.2	450.8	390.0	339.9	297.0	286.2
80°	214.7	218.3	257.6	279.1	271.9	368.5	325.6	322.0	279.1	232.6	214.7
82.5°	125.2	136.0	186.1	200.4	193.2	218.3	236.1	250.5	218.3	161.0	146.7
85°	71.6	75.1	107.3	110.9	110.9	103.8	136.0	150.3	146.7	100.2	89.4
87.5°	21.5	21.5	28.6	28.6	32.2	35.8	53.7	64.4	71.6	50.1	46.5
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°	136°	145°	155°	165°	175°	180°
0°	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1	3653.1
2.5°	3710.3	3656.7	3660.2	3674.6	3628.0	3645.9	3699.6	3660.2	3649.5	3628.0	3617.3
5°	3692.4	3749.7	3728.2	3735.4	3724.6	3674.6	3667.4	3699.6	3717.5	3685.3	3749.7
7.5°	3817.7	3792.6	3764.0	3774.7	3749.7	3792.6	3821.2	3756.8	3789.0	3771.2	3735.4
10°	3889.2	3842.7	3864.2	3857.0	3839.1	3882.1	3853.4	3846.3	3817.7	3778.3	3835.6
12.5°	3914.3	3967.9	4003.7	3942.9	3953.6	3932.2	3914.3	3914.3	3882.1	3871.3	3882.1
15°	4025.2	4071.7	4057.4	4103.9	4043.1	4064.5	4086.0	4032.3	4061.0	3982.3	4043.1
17.5°	4229.1	4189.8	4239.9	4179.0	4200.5	4243.4	4175.5	4175.5	4196.9	4154.0	4100.3
20°	4357.9	4340.1	4322.2	4325.7	4290.0	4329.3	4307.8	4297.1	4264.9	4279.2	4307.8
22.5°	4479.6	4454.5	4461.7	4472.4	4497.5	4479.6	4468.9	4479.6	4400.9	4472.4	4372.3
25°	4629.9	4697.8	4676.4	4722.9	4651.3	4697.8	4694.3	4626.3	4669.2	4640.6	4619.1
27.5°	4880.3	4844.5	4876.7	4819.5	4869.6	4873.2	4830.2	4944.7	4894.6	4887.5	4873.2
30°	5202.3	5177.3	5155.8	5123.6	5163.0	5130.8	5166.6	5177.3	5130.8	5095.0	5027.0
32.5°	5384.8	5452.8	5477.8	5399.1	5402.7	5420.6	5388.4	5356.2	5384.8	5395.5	5384.8
35°	5642.4	5706.8	5721.1	5660.3	5628.1	5717.6	5653.2	5760.5	5667.5	5671.0	5574.4
37.5°	5943.0	5960.9	6082.5	6014.5	5985.9	5943.0	6061.0	6046.7	6068.2	5896.5	5982.3
40°	6282.9	6347.3	6415.3	6243.5	6239.9	6279.3	6272.1	6354.4	6315.1	6290.0	6229.2
42.5°	6655.0	6790.9	6801.7	6687.2	6615.6	6608.5	6644.2	6826.7	6830.3	6665.7	6594.2
45°	7148.7	7299.0	7259.7	7037.8	6959.1	6948.4	7123.7	7202.4	7270.4	7206.0	7145.2
47.5°	7764.1	7864.3	7835.7	7631.8	7377.7	7449.3	7621.0	7867.9	7796.3	7710.5	7638.9
50°	8422.5	8540.6	8479.7	8275.8	8032.5	8032.5	8243.6	8558.5	8537.0	8368.8	8304.4
52.5°	9152.4	9324.1	9463.7	9173.9	8969.9	9002.1	9334.9	9449.4	9395.7	9277.6	9223.9
55°	9696.2	10025.4	10311.6	10326.0	10336.7	10333.1	10419.0	10533.5	10150.6	9961.0	9767.8
57.5°	9563.9	10186.4	11166.8	11832.3	12029.1	12132.8	12104.2	11574.7	10669.4	10046.9	10111.3
60°	8619.3	9635.4	11216.9	13352.9	14784.1	14641.0	14118.6	12025.5	10383.2	9331.3	9198.9
62.5°	6876.8	8100.5	10376.0	13782.3	17725.2	17682.2	14948.7	10984.3	8651.5	7320.5	7238.2
64°	5180.9	6468.9	9256.1	13671.3	18755.6	18798.5	14737.6	9703.4	6769.5	5180.9	5055.6
65°	3964.4	5159.4	8157.7	13442.3	18533.8	18558.8	14150.8	8379.6	5145.1	3678.1	3542.2
67.5°	1577.9	2196.9	4425.9	10193.6	15914.7	15846.7	10097.0	4053.8	1967.9	1280.9	1255.9
70°	672.7	837.2	1552.8	4830.2	10655.1	10458.3	4347.2	1316.7	729.9	611.8	608.3
72.5°	461.6	511.6	665.5	1492.0	4429.5	4325.7	1238.0	611.8	497.3	458.0	458.0
75°	372.1	407.9	483.0	626.1	1173.6	1130.6	583.2	450.8	397.2	368.5	365.0
77.5°	289.8	325.6	379.3	432.9	536.7	533.1	390.0	339.9	307.7	286.2	279.1
80°	229.0	264.8	300.5	307.7	350.6	343.5	264.8	268.3	250.5	207.5	203.9
82.5°	157.4	214.7	239.7	218.3	207.5	207.5	189.6	189.6	175.3	128.8	118.1
85°	96.6	143.1	150.3	128.8	96.6	96.6	103.8	100.2	93.0	68.0	64.4
87.5°	50.1	68.0	60.8	50.1	32.2	32.2	28.6	21.5	21.5	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)