

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: P478952

Luminaire Tested: **IFLD-S-SA6B-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

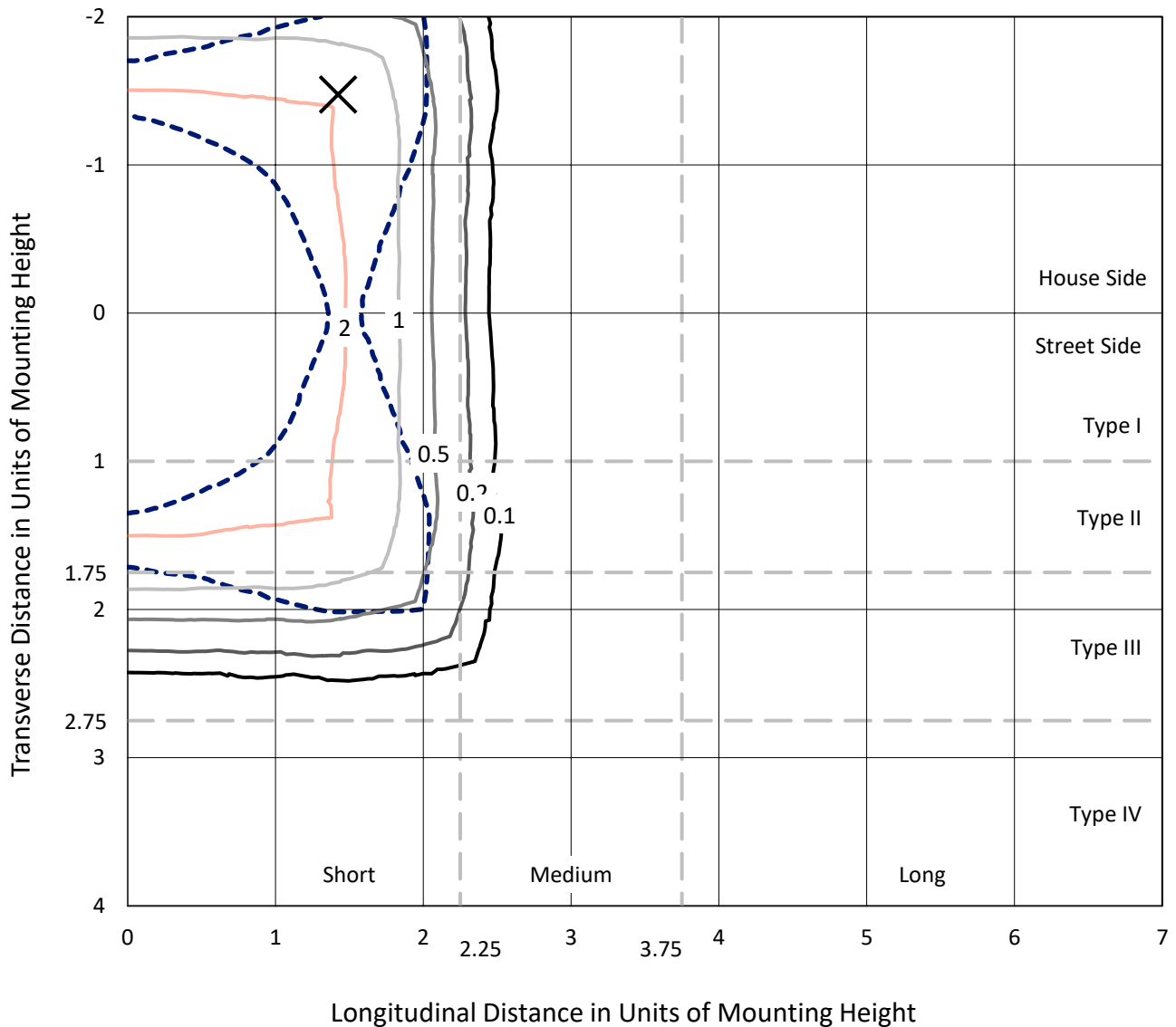
Lumens per Lamp: N/A
Luminaire Lumens: 33292 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 244.9
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

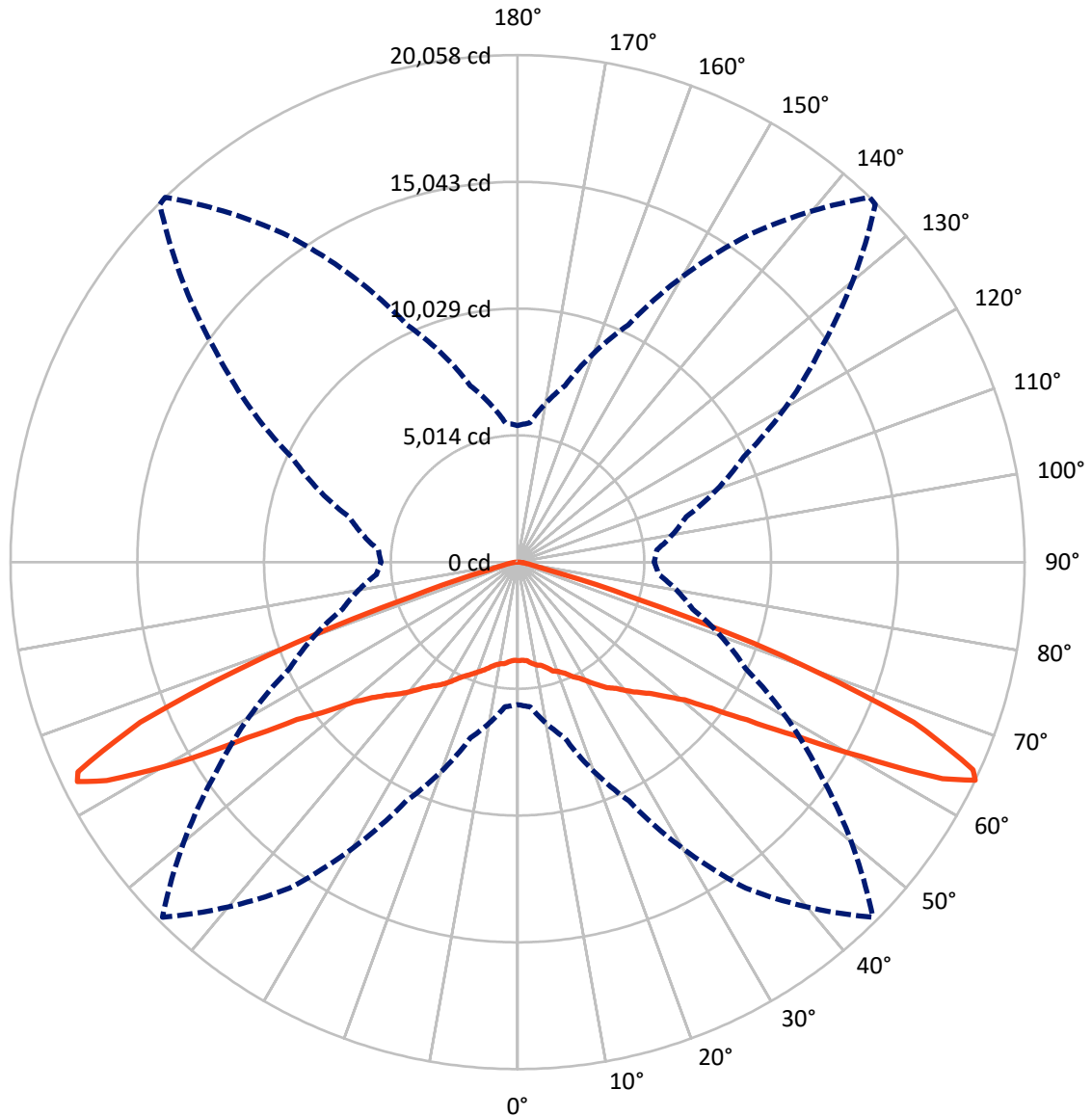
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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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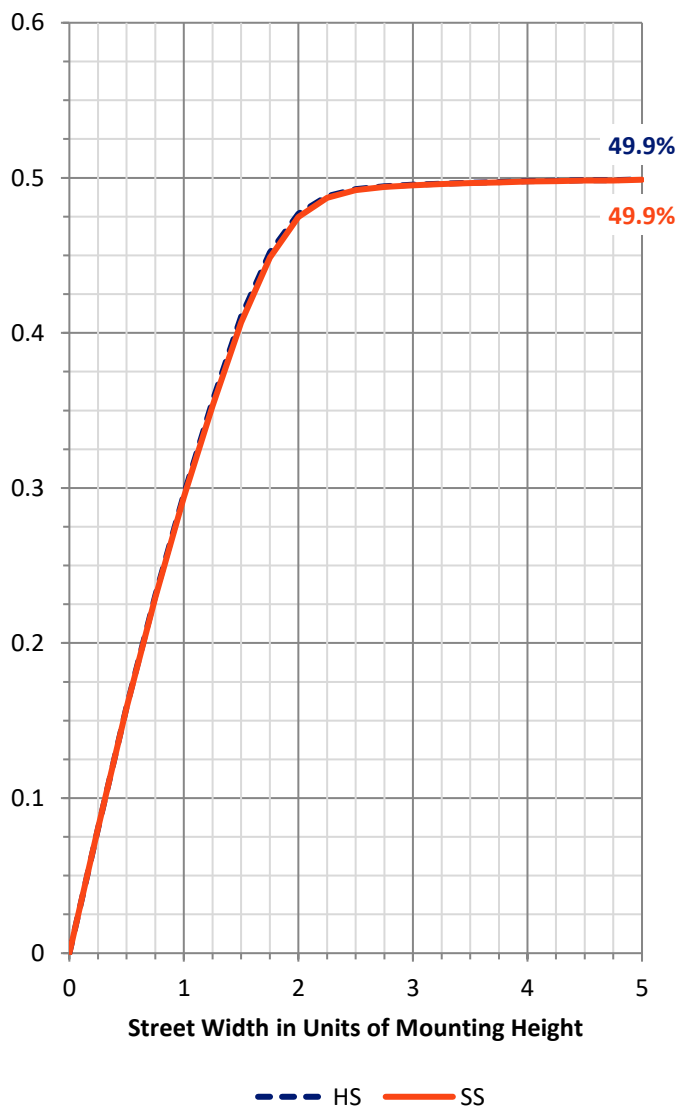
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16661.9	0.0	16661.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16630.1	0.0	16630.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	33292.0	0.0	33292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.0	1.2
10°-20°	1234.4	3.7
20°-30°	2319.9	7.0
30°-40°	3825.9	11.5
40°-50°	5983.5	18.0
50°-60°	9667.8	29.0
60°-70°	8705.2	26.1
70°-80°	1031.2	3.1
80°-90°	141.1	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°	33292.0	100.0
0°-180°	33292.0	100.0

Coefficient of Utilization



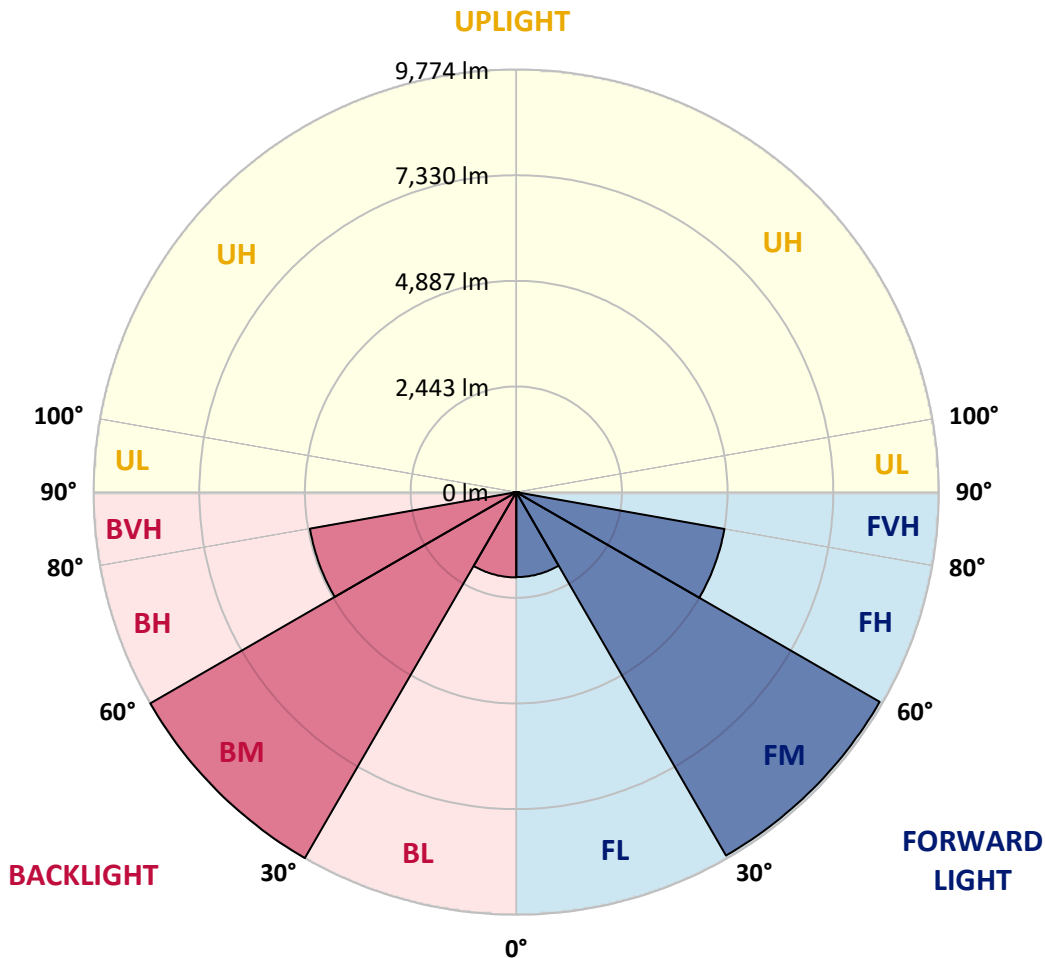
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.8	5.9			
FM (30°-60°)	9703.6	29.1			
FH (60°-80°)	4889.3	14.7			G2/5000
FVH (80°-90°)	72.4	0.2			G1/100
BL (0°-30°)	1972.4	5.9	B3/2500		
BM (30°-60°)	9773.6	29.4	B5		
BH (60°-80°)	4847.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	68.7	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°	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8
2.5°	3852.0	3859.6	3928.3	3901.6	3924.5	3882.5	3913.1	3978.0	3901.6	3958.9	3978.0
5°	3894.0	3905.4	3905.4	3932.2	3947.4	3939.8	3958.9	3932.2	4004.7	3974.2	4020.0
7.5°	4046.7	4027.6	3997.1	4020.0	4023.8	4042.9	4062.0	4096.3	4084.9	4058.1	4104.0
10°	4073.4	4058.1	4104.0	4107.8	4088.7	4073.4	4092.5	4092.5	4126.9	4134.5	4134.5
12.5°	4119.2	4134.5	4130.7	4161.2	4165.0	4153.6	4184.1	4241.4	4226.1	4237.6	4210.9
15°	4294.8	4275.8	4271.9	4302.5	4352.1	4279.6	4333.0	4329.2	4313.9	4336.8	4275.8
17.5°	4447.5	4386.5	4413.2	4462.8	4443.7	4459.0	4527.7	4466.6	4481.9	4455.2	4436.1
20°	4581.2	4531.5	4535.4	4554.4	4554.4	4600.3	4627.0	4604.1	4588.8	4585.0	4592.6
22.5°	4730.1	4672.8	4676.6	4756.8	4783.5	4768.2	4749.1	4787.3	4795.0	4764.4	4798.8
25°	4840.8	4901.8	4920.9	4959.1	4901.8	4943.8	4928.6	5001.1	5046.9	4985.8	5027.8
27.5°	5130.9	5104.2	5153.8	5150.0	5195.8	5153.8	5180.5	5203.4	5222.5	5226.3	5207.3
30°	5390.5	5402.0	5352.3	5485.9	5379.1	5447.8	5493.6	5505.0	5527.9	5527.9	5470.7
32.5°	5665.4	5642.5	5722.6	5692.1	5673.0	5726.5	5676.8	5833.4	5741.7	5795.2	5730.3
35°	5974.6	5974.6	6005.1	6089.1	5974.6	5940.2	6031.9	6096.8	6096.8	6001.3	6024.2
37.5°	6322.0	6291.5	6329.6	6436.5	6348.7	6234.2	6402.2	6428.9	6409.8	6383.1	6337.3
40°	6566.3	6558.7	6635.1	6776.3	6650.3	6627.4	6658.0	6730.5	6753.4	6780.1	6719.0
42.5°	6978.6	7013.0	7234.4	7200.1	7097.0	7016.8	7009.2	7280.2	7215.3	7146.6	7112.3
45°	7589.5	7558.9	7673.5	7677.3	7543.7	7368.0	7406.2	7654.4	7765.1	7612.4	7669.6
47.5°	8074.3	8089.6	8169.7	8333.9	8024.7	7841.4	7982.7	8383.5	8349.2	8291.9	8345.4
50°	8723.3	8792.0	9044.0	8986.7	8711.9	8486.6	8795.8	9173.8	9215.8	9005.8	8967.6
52.5°	9620.4	9727.3	9864.8	9910.6	9647.2	9567.0	9586.1	10055.7	9952.6	9750.2	9620.4
55°	10406.9	10456.5	10708.5	11086.4	11067.3	10681.8	10903.2	11078.8	10658.8	10242.7	10277.1
57.5°	10742.8	10765.7	11468.2	12224.1	12674.6	12762.4	12510.4	11918.7	10918.4	10116.7	10067.1
60°	9906.8	10124.4	10971.9	12678.4	14736.1	15751.6	14075.6	12014.1	10311.4	9337.9	9265.4
62.5°	7917.8	7929.2	9189.1	11777.4	16018.8	18679.7	14675.0	11117.0	8692.8	7589.5	7299.3
64°	5638.7	5745.5	7192.4	10426.0	15751.6	19870.8	14602.5	9944.9	7165.7	5600.5	5398.1
65°	4046.7	4195.6	5592.8	9051.6	15125.5	19729.6	14384.9	8937.1	5795.2	4275.8	4069.6
67.5°	1488.9	1550.0	2195.1	4527.7	10861.2	16812.9	11399.5	4913.3	2546.4	1813.4	1630.1
70°	691.0	694.8	813.2	1496.5	4749.1	11242.9	5440.1	1843.9	958.2	759.7	706.3
72.5°	507.7	519.2	568.8	691.0	1397.3	4760.6	1786.7	755.9	561.2	496.3	484.8
75°	412.3	419.9	435.2	500.1	645.2	1275.1	725.4	523.0	446.7	400.9	385.6
77.5°	316.9	316.9	351.2	381.8	427.6	595.6	481.0	416.1	362.7	316.9	305.4
80°	229.1	232.9	274.9	297.8	290.1	393.2	347.4	343.6	297.8	248.1	229.1
82.5°	133.6	145.1	198.5	213.8	206.2	232.9	252.0	267.2	232.9	171.8	156.5
85°	76.4	80.2	114.5	118.3	118.3	110.7	145.1	160.3	156.5	106.9	95.4
87.5°	22.9	22.9	30.5	30.5	34.4	38.2	57.3	68.7	76.4	53.4	49.6
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°	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8
2.5°	3958.9	3901.6	3905.4	3920.7	3871.1	3890.2	3947.4	3905.4	3894.0	3871.1	3859.6
5°	3939.8	4000.9	3978.0	3985.6	3974.2	3920.7	3913.1	3947.4	3966.5	3932.2	4000.9
7.5°	4073.4	4046.7	4016.2	4027.6	4000.9	4046.7	4077.2	4008.5	4042.9	4023.8	3985.6
10°	4149.8	4100.1	4123.0	4115.4	4096.3	4142.1	4111.6	4104.0	4073.4	4031.4	4092.5
12.5°	4176.5	4233.8	4271.9	4207.0	4218.5	4195.6	4176.5	4176.5	4142.1	4130.7	4142.1
15°	4294.8	4344.5	4329.2	4378.8	4313.9	4336.8	4359.7	4302.5	4333.0	4249.0	4313.9
17.5°	4512.4	4470.5	4523.9	4459.0	4481.9	4527.7	4455.2	4455.2	4478.1	4432.3	4375.0
20°	4649.9	4630.8	4611.7	4615.5	4577.3	4619.3	4596.4	4585.0	4550.6	4565.9	4596.4
22.5°	4779.7	4753.0	4760.6	4772.0	4798.8	4779.7	4768.2	4779.7	4695.7	4772.0	4665.2
25°	4940.0	5012.6	4989.7	5039.3	4962.9	5012.6	5008.7	4936.2	4982.0	4951.5	4928.6
27.5°	5207.3	5169.1	5203.4	5142.4	5195.8	5199.6	5153.8	5276.0	5222.5	5214.9	5199.6
30°	5550.8	5524.1	5501.2	5466.9	5508.9	5474.5	5512.7	5524.1	5474.5	5436.3	5363.8
32.5°	5745.5	5818.1	5844.8	5760.8	5764.6	5783.7	5749.4	5715.0	5745.5	5757.0	5745.5
35°	6020.4	6089.1	6104.4	6039.5	6005.1	6100.6	6031.9	6146.4	6047.1	6051.0	5947.9
37.5°	6341.1	6360.2	6490.0	6417.4	6386.9	6341.1	6467.1	6451.8	6474.7	6291.5	6383.1
40°	6703.8	6772.5	6845.0	6661.8	6658.0	6700.0	6692.3	6780.1	6738.1	6711.4	6646.5
42.5°	7100.8	7245.9	7257.3	7135.2	7058.8	7051.2	7089.4	7284.1	7287.9	7112.3	7035.9
45°	7627.6	7788.0	7746.0	7509.3	7425.3	7413.9	7600.9	7684.9	7757.4	7688.7	7623.8
47.5°	8284.3	8391.2	8360.6	8143.0	7872.0	7948.3	8131.6	8395.0	8318.6	8227.0	8150.7
50°	8986.7	9112.7	9047.8	8830.2	8570.6	8570.6	8795.8	9131.8	9108.9	8929.5	8860.7
52.5°	9765.5	9948.8	10097.7	9788.4	9570.8	9605.2	9960.2	10082.4	10025.1	9899.1	9841.9
55°	10345.8	10697.0	11002.4	11017.7	11029.2	11025.3	11117.0	11239.1	10830.6	10628.3	10422.2
57.5°	10204.5	10868.8	11914.8	12624.9	12834.9	12945.6	12915.1	12350.1	11384.2	10719.9	10788.6
60°	9196.7	10280.9	11968.3	14247.4	15774.5	15621.8	15064.4	12831.1	11078.8	9956.4	9815.1
62.5°	7337.5	8643.1	11071.2	14705.5	18912.6	18866.8	15950.1	11720.1	9231.0	7810.9	7723.1
64°	5527.9	6902.3	9876.2	14587.2	20012.1	20057.9	15724.9	10353.4	7223.0	5527.9	5394.3
65°	4229.9	5505.0	8704.2	14342.9	19775.4	19802.1	15098.8	8940.9	5489.8	3924.5	3779.5
67.5°	1683.6	2344.0	4722.4	10876.5	16980.9	16908.3	10773.4	4325.4	2099.7	1366.7	1340.0
70°	717.7	893.3	1656.9	5153.8	11368.9	11159.0	4638.4	1404.9	778.8	652.8	649.0
72.5°	492.5	545.9	710.1	1592.0	4726.2	4615.5	1320.9	652.8	530.7	488.7	488.7
75°	397.0	435.2	515.4	668.1	1252.2	1206.4	622.3	481.0	423.8	393.2	389.4
77.5°	309.2	347.4	404.7	461.9	572.6	568.8	416.1	362.7	328.3	305.4	297.8
80°	244.3	282.5	320.7	328.3	374.1	366.5	282.5	286.3	267.2	221.4	217.6
82.5°	168.0	229.1	255.8	232.9	221.4	221.4	202.3	202.3	187.1	137.4	126.0
85°	103.1	152.7	160.3	137.4	103.1	103.1	110.7	106.9	99.3	72.5	68.7
87.5°	53.4	72.5	64.9	53.4	34.4	34.4	30.5	22.9	22.9	19.1	19.1
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)