

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: P478850

Luminaire Tested: **IFLD-L-SA8B-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

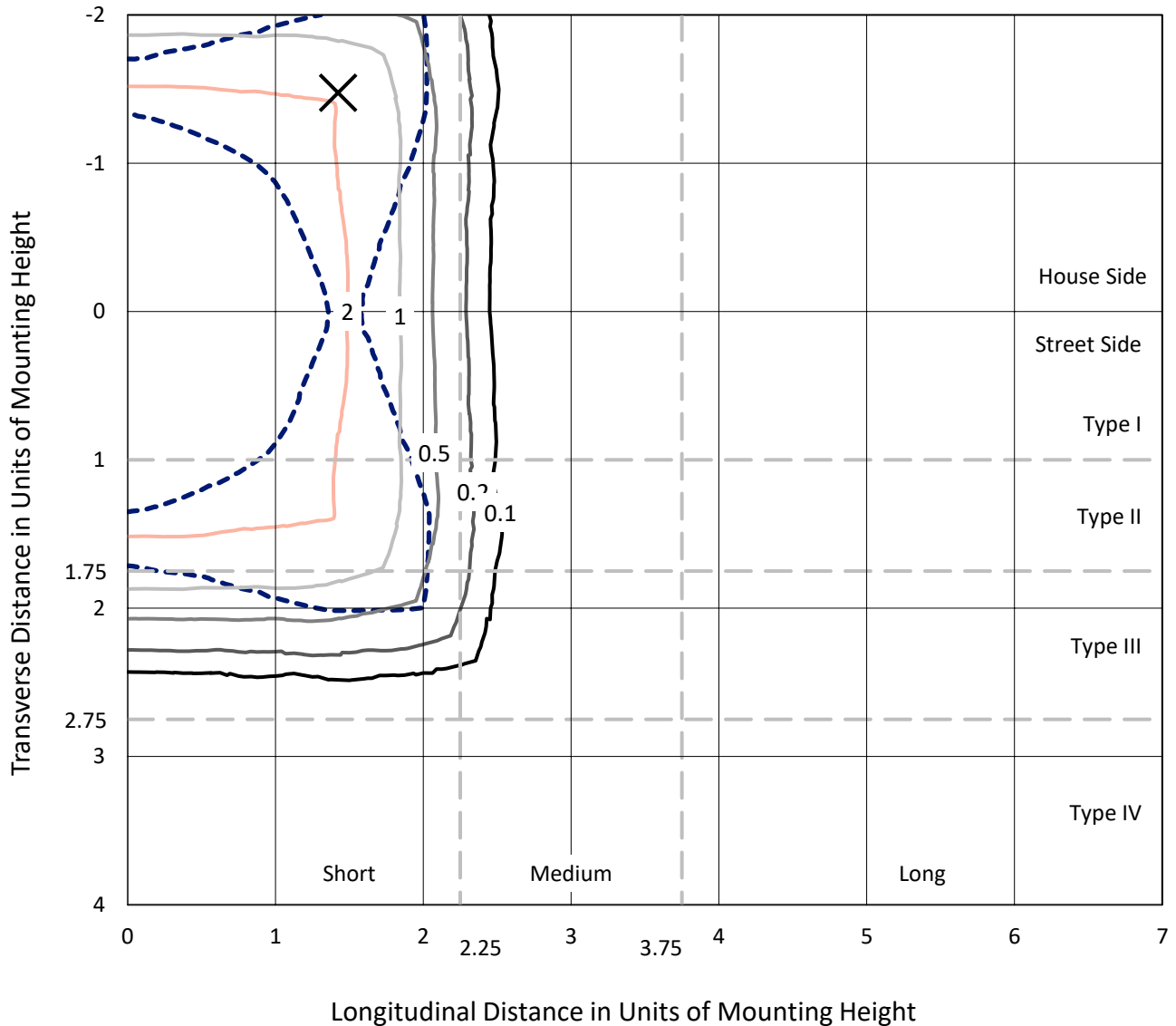
Lumens per Lamp: N/A
Luminaire Lumens: 33946.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 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

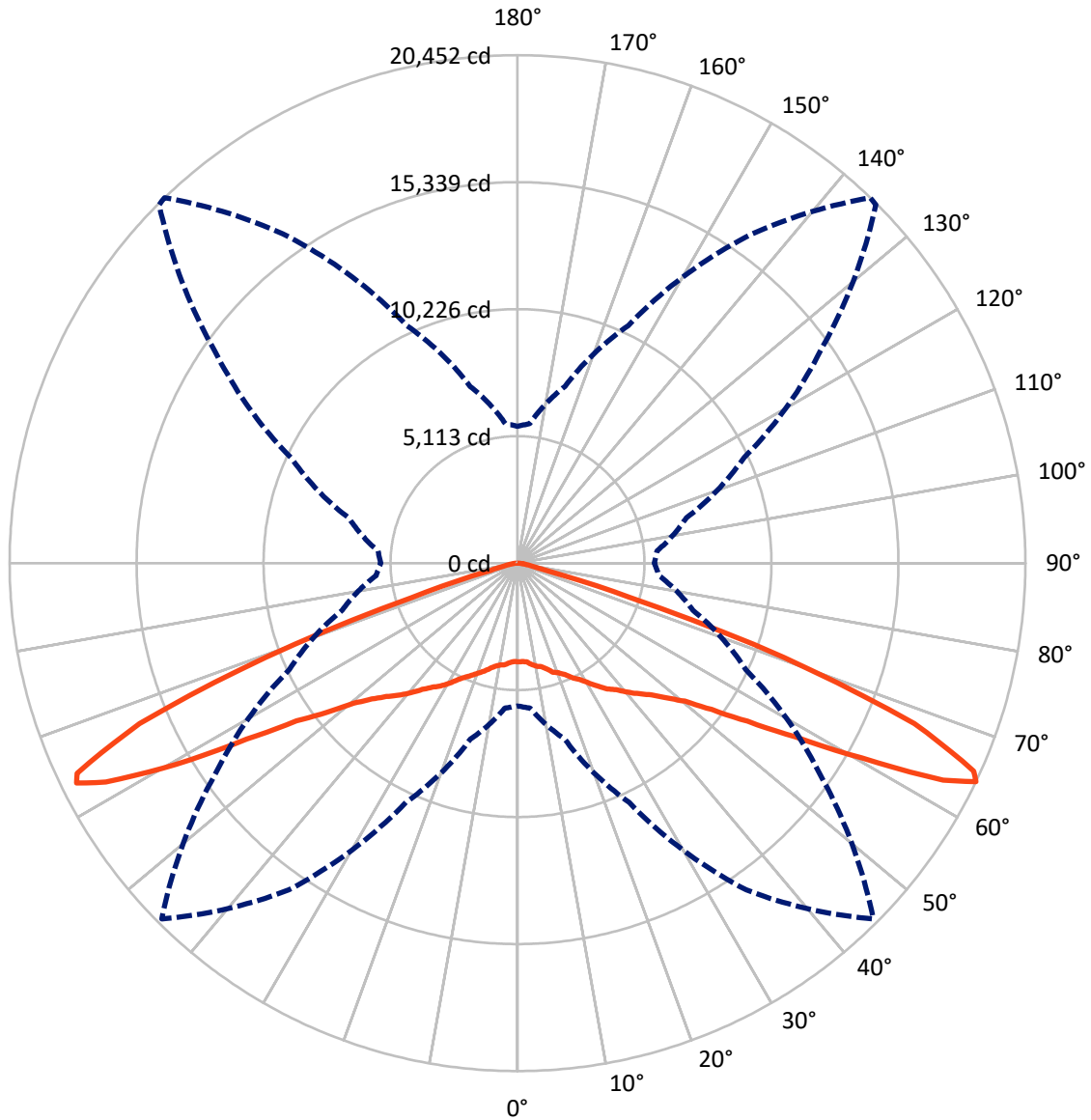
× Max cd
 - - - 1/2 Max cd



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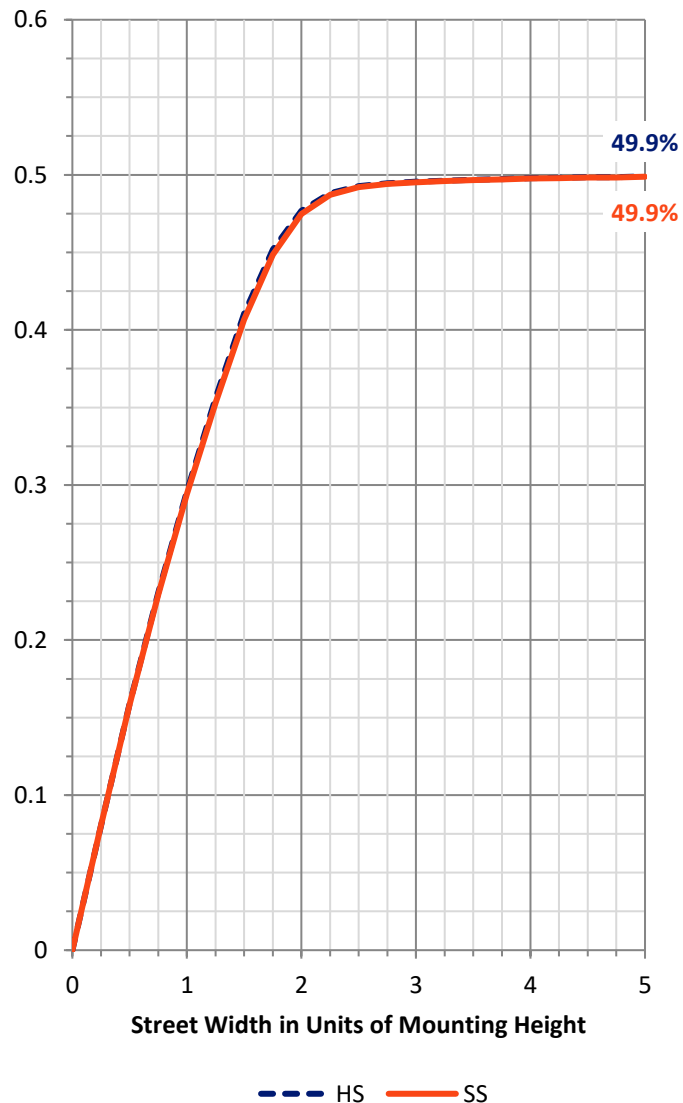
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16989.6	0.0	16989.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16957.3	0.0	16957.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	33946.9	0.0	33946.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.5	1.2
10°-20°	1258.7	3.7
20°-30°	2365.5	7.0
30°-40°	3901.2	11.5
40°-50°	6101.2	18.0
50°-60°	9858.0	29.0
60°-70°	8876.5	26.1
70°-80°	1051.5	3.1
80°-90°	143.9	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°	33946.9	100.0
0°-180°	33946.9	100.0

Coefficient of Utilization



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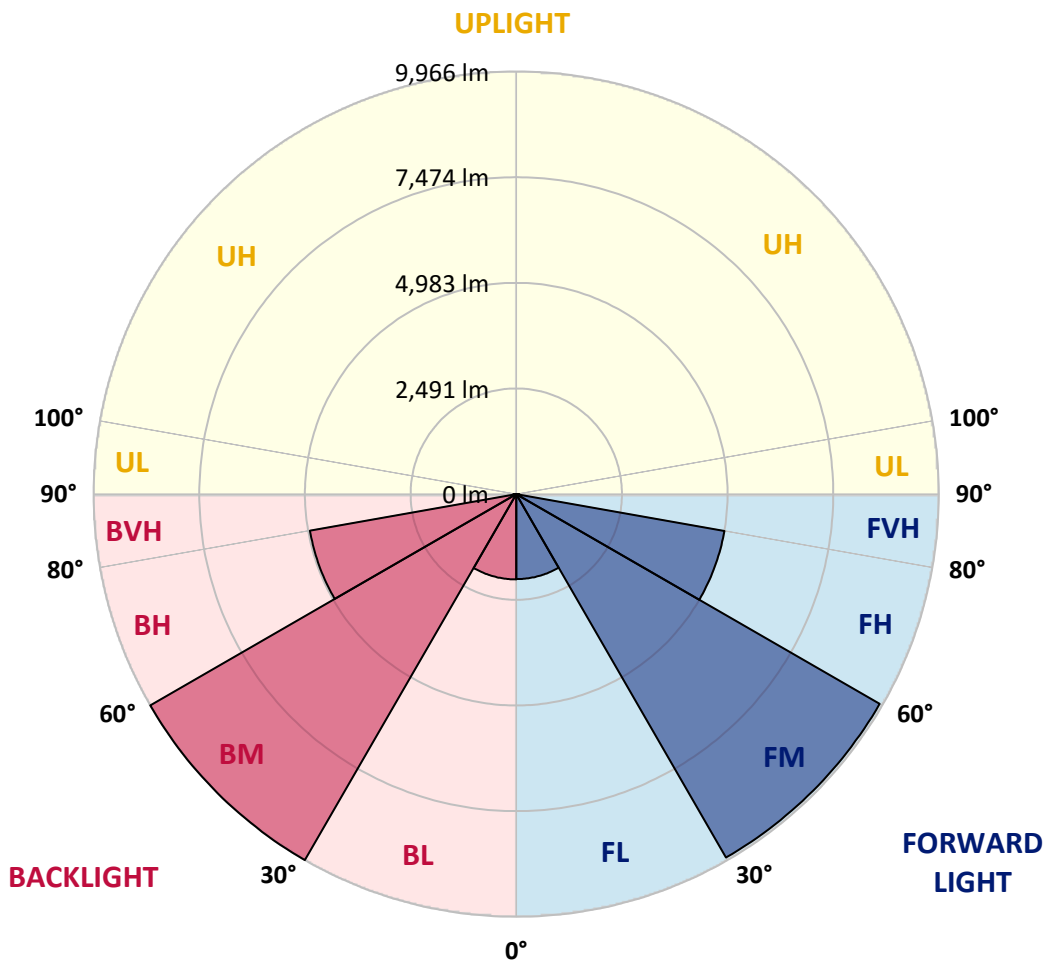
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.5	5.9			
FM (30°-60°)	9894.5	29.1			
FH (60°-80°)	4985.5	14.7			G2/5000
FVH (80°-90°)	73.8	0.2			G1/100
BL (0°-30°)	2011.2	5.9	B3/2500		
BM (30°-60°)	9965.9	29.4	B5		
BH (60°-80°)	4942.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	70.1	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°	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5
2.5°	3927.8	3935.6	4005.6	3978.4	4001.7	3958.9	3990.1	4056.2	3978.4	4036.8	4056.2
5°	3970.6	3982.3	3982.3	4009.5	4025.1	4017.3	4036.8	4009.5	4083.5	4052.3	4099.1
7.5°	4126.3	4106.8	4075.7	4099.1	4102.9	4122.4	4141.9	4176.9	4165.2	4138.0	4184.7
10°	4153.6	4138.0	4184.7	4188.6	4169.1	4153.6	4173.0	4173.0	4208.0	4215.8	4215.8
12.5°	4200.3	4215.8	4211.9	4243.1	4247.0	4235.3	4266.4	4324.8	4309.3	4320.9	4293.7
15°	4379.3	4359.9	4356.0	4387.1	4437.7	4363.8	4418.3	4414.4	4398.8	4422.1	4359.9
17.5°	4535.0	4472.8	4500.0	4550.6	4531.1	4546.7	4616.8	4554.5	4570.1	4542.8	4523.4
20°	4671.3	4620.7	4624.6	4644.0	4644.0	4690.7	4718.0	4694.6	4679.1	4675.2	4683.0
22.5°	4823.1	4764.7	4768.6	4850.4	4877.6	4862.0	4842.6	4881.5	4889.3	4858.1	4893.2
25°	4936.0	4998.3	5017.7	5056.7	4998.3	5041.1	5025.5	5099.5	5146.2	5083.9	5126.7
27.5°	5231.8	5204.6	5255.2	5251.3	5298.0	5255.2	5282.4	5305.8	5325.3	5329.2	5309.7
30°	5496.5	5508.2	5457.6	5593.9	5484.9	5554.9	5601.6	5613.3	5636.7	5636.7	5578.3
32.5°	5776.8	5753.5	5835.2	5804.1	5784.6	5839.1	5788.5	5948.1	5854.7	5909.2	5843.0
35°	6092.1	6092.1	6123.3	6208.9	6092.1	6057.1	6150.5	6216.7	6216.7	6119.4	6142.7
37.5°	6446.4	6415.2	6454.2	6563.2	6473.6	6356.8	6528.1	6555.4	6535.9	6508.7	6461.9
40°	6695.5	6687.7	6765.6	6909.6	6781.1	6757.8	6788.9	6862.9	6886.3	6913.5	6851.2
42.5°	7115.9	7151.0	7376.7	7341.7	7236.6	7154.9	7147.1	7423.5	7357.3	7287.2	7252.2
45°	7738.8	7707.6	7824.4	7828.3	7692.0	7513.0	7551.9	7804.9	7917.8	7762.1	7820.5
47.5°	8233.1	8248.7	8330.5	8497.8	8182.5	7995.7	8139.7	8548.5	8513.4	8455.0	8509.5
50°	8894.9	8965.0	9221.9	9163.5	8883.2	8653.6	8968.9	9354.2	9397.1	9183.0	9144.0
52.5°	9809.7	9918.7	10058.8	10105.5	9836.9	9755.2	9774.7	10253.5	10148.4	9942.1	9809.7
55°	10611.6	10662.2	10919.1	11304.5	11285.0	10891.9	11117.7	11296.7	10868.5	10444.2	10479.2
57.5°	10954.2	10977.5	11693.8	12464.5	12923.9	13013.4	12756.5	12153.1	11133.2	10315.8	10265.1
60°	10101.7	10323.5	11187.7	12927.8	15026.0	16061.4	14352.5	12250.4	10514.3	9521.6	9447.7
62.5°	8073.5	8085.2	9369.8	12009.1	16333.9	19047.2	14963.7	11335.7	8863.8	7738.8	7442.9
64°	5749.6	5858.6	7333.9	10631.1	16061.4	20261.7	14889.7	10140.6	7306.7	5710.6	5504.3
65°	4126.3	4278.1	5702.9	9229.7	15423.0	20117.7	14667.8	9112.9	5909.2	4359.9	4149.7
67.5°	1518.2	1580.5	2238.3	4616.8	11074.8	17143.6	11623.7	5010.0	2596.5	1849.1	1662.2
70°	704.6	708.5	829.2	1526.0	4842.6	11464.1	5547.2	1880.2	977.1	774.7	720.2
72.5°	517.7	529.4	580.0	704.6	1424.7	4854.2	1821.8	770.8	572.2	506.1	494.4
75°	420.4	428.2	443.8	509.9	657.9	1300.2	739.6	533.3	455.5	408.7	393.2
77.5°	323.1	323.1	358.1	389.3	436.0	607.3	490.5	424.3	369.8	323.1	311.4
80°	233.6	237.5	280.3	303.6	295.8	401.0	354.2	350.3	303.6	253.0	233.6
82.5°	136.2	147.9	202.4	218.0	210.2	237.5	256.9	272.5	237.5	175.2	159.6
85°	77.9	81.7	116.8	120.7	120.7	112.9	147.9	163.5	159.6	109.0	97.3
87.5°	23.4	23.4	31.1	31.1	35.0	38.9	58.4	70.1	77.9	54.5	50.6
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°	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5	3974.5
2.5°	4036.8	3978.4	3982.3	3997.8	3947.2	3966.7	4025.1	3982.3	3970.6	3947.2	3935.6
5°	4017.3	4079.6	4056.2	4064.0	4052.3	3997.8	3990.1	4025.1	4044.6	4009.5	4079.6
7.5°	4153.6	4126.3	4095.2	4106.8	4079.6	4126.3	4157.4	4087.4	4122.4	4102.9	4064.0
10°	4231.4	4180.8	4204.2	4196.4	4176.9	4223.6	4192.5	4184.7	4153.6	4110.7	4173.0
12.5°	4258.7	4317.0	4356.0	4289.8	4301.5	4278.1	4258.7	4258.7	4223.6	4211.9	4223.6
15°	4379.3	4429.9	4414.4	4465.0	4398.8	4422.1	4445.5	4387.1	4418.3	4332.6	4398.8
17.5°	4601.2	4558.4	4612.9	4546.7	4570.1	4616.8	4542.8	4542.8	4566.2	4519.5	4461.1
20°	4741.4	4721.9	4702.4	4706.3	4667.4	4710.2	4686.9	4675.2	4640.1	4655.7	4686.9
22.5°	4873.7	4846.5	4854.2	4865.9	4893.2	4873.7	4862.0	4873.7	4788.1	4865.9	4756.9
25°	5037.2	5111.2	5087.8	5138.4	5060.6	5111.2	5107.3	5033.3	5080.0	5048.9	5025.5
27.5°	5309.7	5270.8	5305.8	5243.5	5298.0	5301.9	5255.2	5379.8	5325.3	5317.5	5301.9
30°	5660.0	5632.8	5609.4	5574.4	5617.2	5582.2	5621.1	5632.8	5582.2	5543.3	5469.3
32.5°	5858.6	5932.5	5959.8	5874.1	5878.0	5897.5	5862.5	5827.4	5858.6	5870.2	5858.6
35°	6138.8	6208.9	6224.5	6158.3	6123.3	6220.6	6150.5	6267.3	6166.1	6170.0	6064.9
37.5°	6465.8	6485.3	6617.7	6543.7	6512.6	6465.8	6594.3	6578.7	6602.1	6415.2	6508.7
40°	6835.6	6905.7	6979.7	6792.8	6788.9	6831.8	6824.0	6913.5	6870.7	6843.4	6777.3
42.5°	7240.5	7388.4	7400.1	7275.5	7197.7	7189.9	7228.8	7427.3	7431.2	7252.2	7174.3
45°	7777.7	7941.2	7898.4	7657.0	7571.4	7559.7	7750.4	7836.1	7910.0	7840.0	7773.8
47.5°	8447.2	8556.2	8525.1	8303.2	8026.8	8104.7	8291.5	8560.1	8482.3	8388.8	8311.0
50°	9163.5	9292.0	9225.8	9003.9	8739.2	8739.2	8968.9	9311.4	9288.1	9105.1	9035.0
52.5°	9957.6	10144.5	10296.3	9981.0	9759.1	9794.1	10156.2	10280.7	10222.3	10093.9	10035.5
55°	10549.3	10907.5	11218.9	11234.4	11246.1	11242.2	11335.7	11460.2	11043.7	10837.4	10627.2
57.5°	10405.3	11082.6	12149.2	12873.3	13087.4	13200.3	13169.1	12593.0	11608.1	10930.8	11000.9
60°	9377.6	10483.1	12203.7	14527.7	16084.8	15929.1	15360.7	13083.5	11296.7	10152.3	10008.2
62.5°	7481.8	8813.2	11288.9	14994.8	19284.6	19237.9	16263.9	11950.7	9412.6	7964.5	7875.0
64°	5636.7	7038.1	10070.5	14874.2	20405.7	20452.4	16034.2	10557.1	7365.1	5636.7	5500.4
65°	4313.2	5613.3	8875.4	14625.0	20164.4	20191.6	15395.8	9116.8	5597.8	4001.7	3853.8
67.5°	1716.7	2390.1	4815.3	11090.4	17314.9	17240.9	10985.3	4410.5	2141.0	1393.6	1366.4
70°	731.8	910.9	1689.4	5255.2	11592.6	11378.5	4729.7	1432.5	794.1	665.7	661.8
72.5°	502.2	556.7	724.0	1623.3	4819.2	4706.3	1346.9	665.7	541.1	498.3	498.3
75°	404.8	443.8	525.5	681.2	1276.8	1230.1	634.5	490.5	432.1	401.0	397.1
77.5°	315.3	354.2	412.6	471.0	583.9	580.0	424.3	369.8	334.8	311.4	303.6
80°	249.1	288.1	327.0	334.8	381.5	373.7	288.1	292.0	272.5	225.8	221.9
82.5°	171.3	233.6	260.8	237.5	225.8	225.8	206.3	206.3	190.7	140.1	128.5
85°	105.1	155.7	163.5	140.1	105.1	105.1	112.9	109.0	101.2	74.0	70.1
87.5°	54.5	74.0	66.2	54.5	35.0	35.0	31.1	23.4	23.4	19.5	19.5
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)