

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: P479119

Luminaire Tested: **IFLD-L-SA7C-830-U-5NQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479119
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

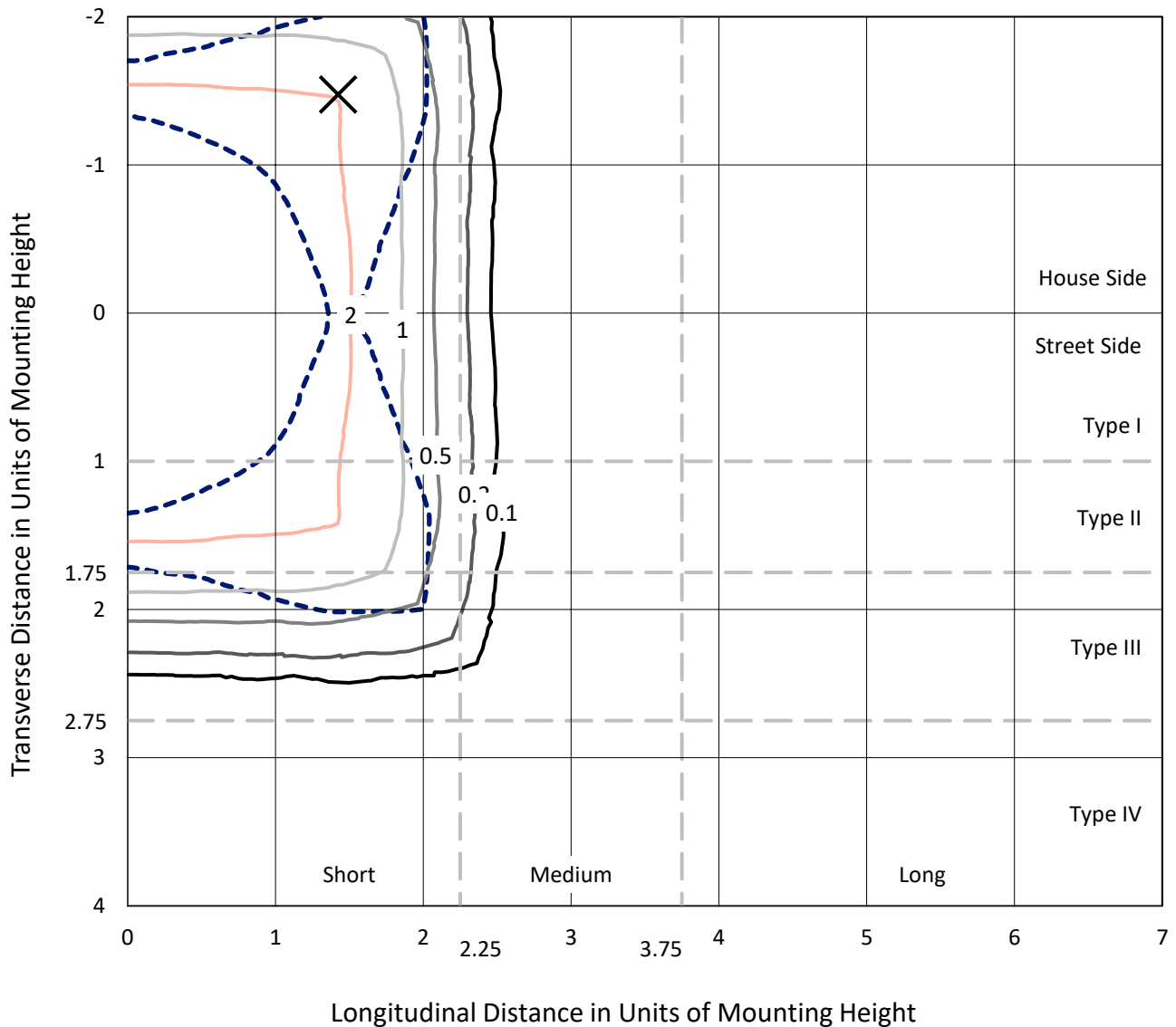
Lumens per Lamp: N/A
Luminaire Lumens: 35132.8 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 369
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

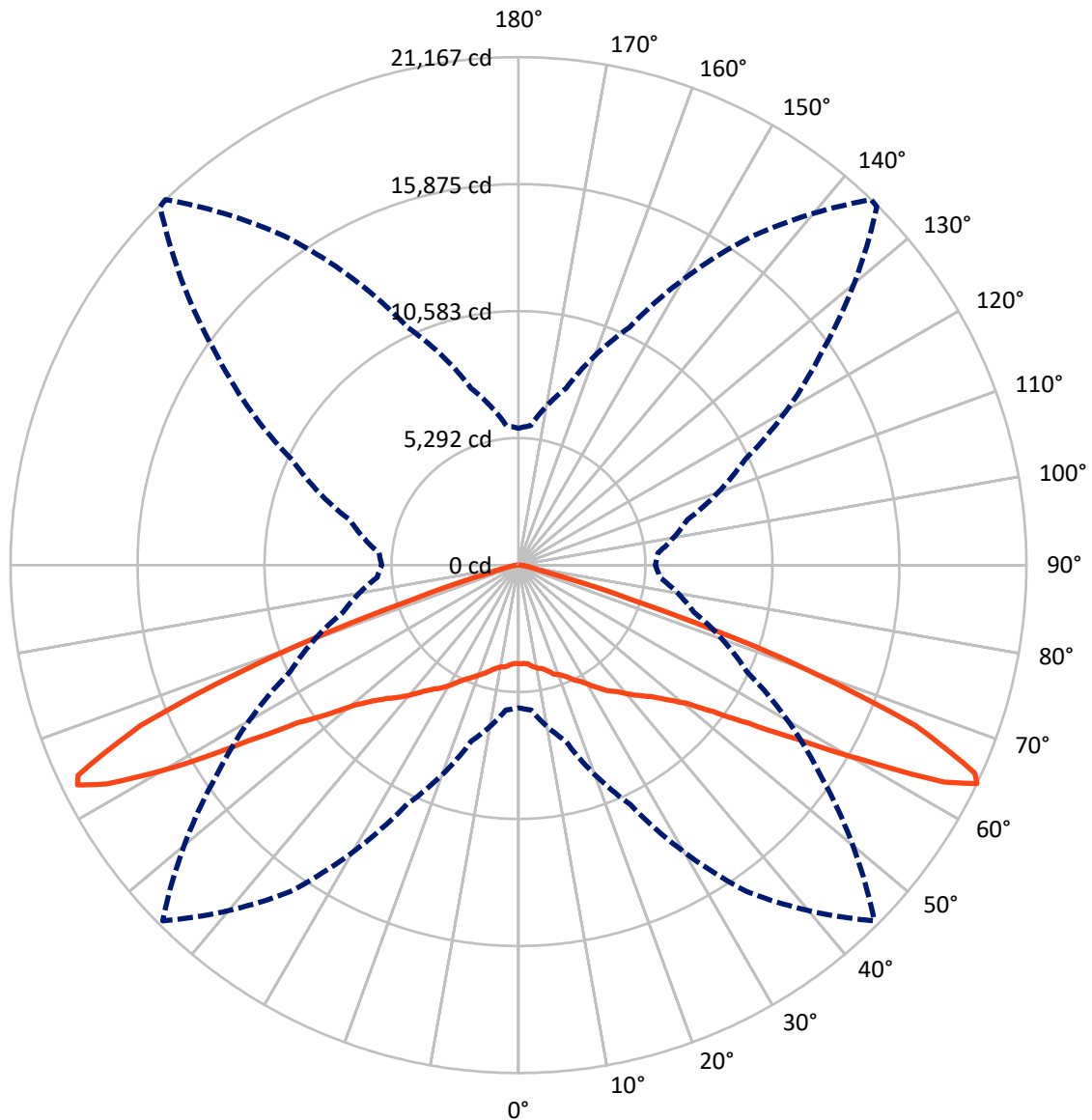
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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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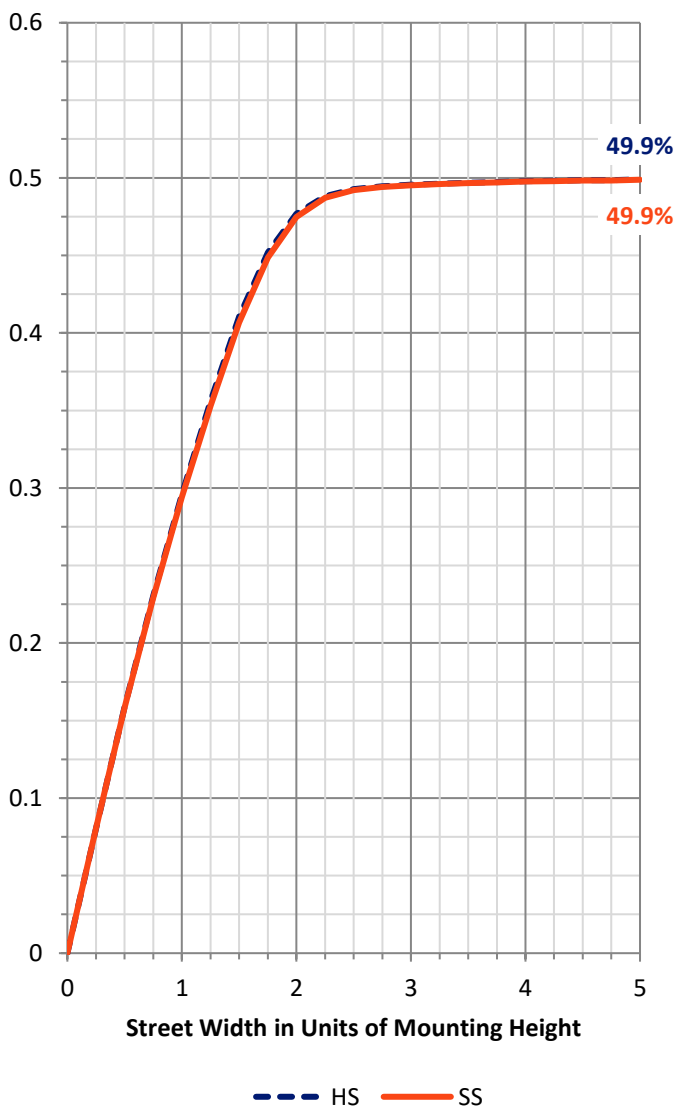
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17583.1	0.0	17583.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17549.7	0.0	17549.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	35132.8	0.0	35132.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	1.2
10°-20°	1302.6	3.7
20°-30°	2448.2	7.0
30°-40°	4037.4	11.5
40°-50°	6314.3	18.0
50°-60°	10202.4	29.0
60°-70°	9186.6	26.1
70°-80°	1088.2	3.1
80°-90°	149.0	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°	35132.8	100.0
0°-180°	35132.8	100.0

Coefficient of Utilization



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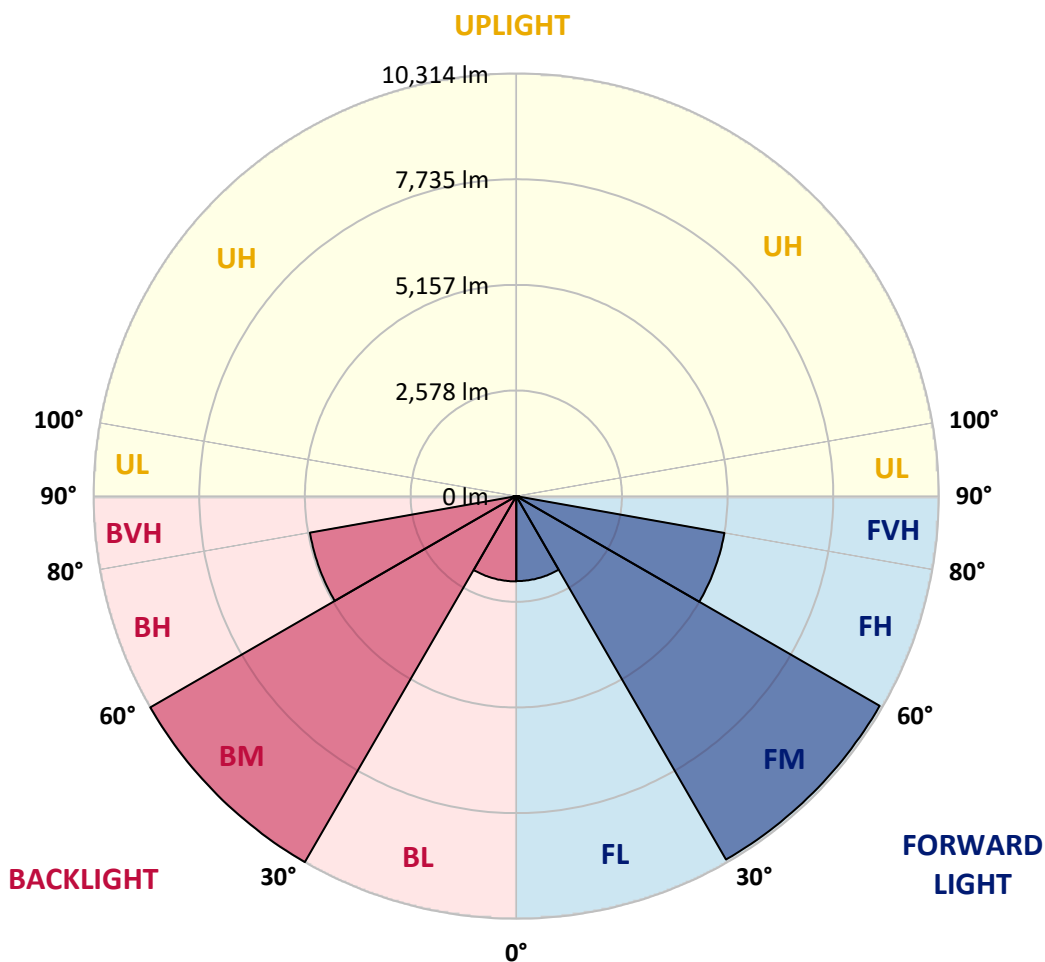
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.5	5.9			
FM (30°-60°)	10240.1	29.1			
FH (60°-80°)	5159.6	14.7			G3/7500
FVH (80°-90°)	76.4	0.2			G1/100
BL (0°-30°)	2081.5	5.9	B3/2500		
BM (30°-60°)	10314.0	29.4	B5		
BH (60°-80°)	5115.1	14.6	B5		G3/7500
BVH (80°-90°)	72.5	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3
2.5°	4065.0	4073.0	4145.6	4117.4	4141.5	4097.2	4129.4	4197.9	4117.4	4177.8	4197.9
5°	4109.3	4121.4	4121.4	4149.6	4165.7	4157.6	4177.8	4149.6	4226.1	4193.9	4242.2
7.5°	4270.4	4250.3	4218.1	4242.2	4246.3	4266.4	4286.6	4322.8	4310.7	4282.5	4330.9
10°	4298.6	4282.5	4330.9	4334.9	4314.8	4298.6	4318.8	4318.8	4355.0	4363.1	4363.1
12.5°	4347.0	4363.1	4359.1	4391.3	4395.3	4383.3	4415.5	4475.9	4459.8	4471.9	4443.7
15°	4532.3	4512.2	4508.1	4540.4	4592.7	4516.2	4572.6	4568.6	4552.5	4576.6	4512.2
17.5°	4693.5	4629.0	4657.2	4709.6	4689.4	4705.5	4778.1	4713.6	4729.7	4701.5	4681.4
20°	4834.5	4782.1	4786.1	4806.3	4806.3	4854.6	4882.8	4858.6	4842.5	4838.5	4846.6
22.5°	4991.6	4931.2	4935.2	5019.8	5048.0	5031.9	5011.7	5052.0	5060.1	5027.8	5064.1
25°	5108.4	5172.9	5193.0	5233.3	5172.9	5217.2	5201.1	5277.6	5326.0	5261.5	5305.8
27.5°	5414.6	5386.4	5438.8	5434.7	5483.1	5438.8	5467.0	5491.1	5511.3	5515.3	5495.2
30°	5688.6	5700.6	5648.3	5789.3	5676.5	5749.0	5797.3	5809.4	5833.6	5833.6	5773.2
32.5°	5978.6	5954.5	6039.1	6006.8	5986.7	6043.1	5990.7	6155.9	6059.2	6115.6	6047.1
35°	6305.0	6305.0	6337.2	6425.8	6305.0	6268.7	6365.4	6433.9	6433.9	6333.2	6357.3
37.5°	6671.6	6639.3	6679.6	6792.4	6699.8	6578.9	6756.2	6784.4	6764.2	6736.0	6687.7
40°	6929.4	6921.3	7001.9	7151.0	7018.0	6993.9	7026.1	7102.6	7126.8	7155.0	7090.6
42.5°	7364.5	7400.8	7634.4	7598.2	7489.4	7404.8	7396.7	7682.8	7614.3	7541.8	7505.5
45°	8009.1	7976.9	8097.7	8101.8	7960.8	7775.4	7815.7	8077.6	8194.4	8033.3	8093.7
47.5°	8520.7	8536.9	8621.5	8794.7	8468.4	8275.0	8424.1	8847.1	8810.8	8750.4	8806.8
50°	9205.6	9278.1	9544.0	9483.6	9193.5	8955.9	9282.2	9681.0	9725.3	9503.8	9463.5
52.5°	10152.4	10265.2	10410.2	10458.6	10180.6	10096.0	10116.1	10611.7	10502.9	10289.4	10152.4
55°	10982.3	11034.7	11300.6	11699.4	11679.3	11272.4	11506.0	11691.4	11248.2	10809.1	10845.3
57.5°	11336.8	11361.0	12102.3	12900.0	13375.4	13468.0	13202.1	12577.7	11522.1	10676.1	10623.7
60°	10454.5	10684.2	11578.5	13379.4	15550.9	16622.5	14853.9	12678.4	10881.6	9854.3	9777.7
62.5°	8355.6	8367.7	9697.1	12428.6	16904.5	19712.5	15486.4	11731.6	9173.4	8009.1	7702.9
64°	5950.4	6063.2	7590.1	11002.4	16622.5	20969.5	15409.9	10494.8	7561.9	5910.1	5696.6
65°	4270.4	4427.6	5902.1	9552.1	15961.8	20820.4	15180.2	9431.2	6115.6	4512.2	4294.6
67.5°	1571.2	1635.7	2316.5	4778.1	11461.7	17742.5	12029.8	5185.0	2687.2	1913.6	1720.3
70°	729.2	733.2	858.1	1579.3	5011.7	11864.6	5740.9	1945.9	1011.2	801.7	745.3
72.5°	535.8	547.9	600.3	729.2	1474.5	5023.8	1885.4	797.7	592.2	523.7	511.6
75°	435.1	443.2	459.3	527.8	680.9	1345.6	765.5	551.9	471.4	423.0	406.9
77.5°	334.4	334.4	370.6	402.9	451.2	628.5	507.6	439.1	382.7	334.4	322.3
80°	241.7	245.8	290.1	314.2	306.2	415.0	366.6	362.6	314.2	261.9	241.7
82.5°	141.0	153.1	209.5	225.6	217.6	245.8	265.9	282.0	245.8	181.3	165.2
85°	80.6	84.6	120.9	124.9	124.9	116.8	153.1	169.2	165.2	112.8	100.7
87.5°	24.2	24.2	32.2	32.2	36.3	40.3	60.4	72.5	80.6	56.4	52.4
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°	136°	145°	155°	165°	175°	180°
0°	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3	4113.3
2.5°	4177.8	4117.4	4121.4	4137.5	4085.1	4105.3	4165.7	4121.4	4109.3	4085.1	4073.0
5°	4157.6	4222.1	4197.9	4206.0	4193.9	4137.5	4129.4	4165.7	4185.8	4149.6	4222.1
7.5°	4298.6	4270.4	4238.2	4250.3	4222.1	4270.4	4302.7	4230.2	4266.4	4246.3	4206.0
10°	4379.2	4326.8	4351.0	4343.0	4322.8	4371.2	4338.9	4330.9	4298.6	4254.3	4318.8
12.5°	4407.4	4467.9	4508.1	4439.7	4451.7	4427.6	4407.4	4407.4	4371.2	4359.1	4371.2
15°	4532.3	4584.7	4568.6	4620.9	4552.5	4576.6	4600.8	4540.4	4572.6	4484.0	4552.5
17.5°	4761.9	4717.6	4774.0	4705.5	4729.7	4778.1	4701.5	4701.5	4725.7	4677.3	4616.9
20°	4907.0	4886.8	4866.7	4870.7	4830.4	4874.8	4850.6	4838.5	4802.2	4818.4	4850.6
22.5°	5044.0	5015.8	5023.8	5035.9	5064.1	5044.0	5031.9	5044.0	4955.3	5035.9	4923.1
25°	5213.2	5289.7	5265.5	5317.9	5237.3	5289.7	5285.7	5209.1	5257.5	5225.3	5201.1
27.5°	5495.2	5454.9	5491.1	5426.7	5483.1	5487.1	5438.8	5567.7	5511.3	5503.2	5487.1
30°	5857.8	5829.6	5805.4	5769.1	5813.4	5777.2	5817.5	5829.6	5777.2	5736.9	5660.4
32.5°	6063.2	6139.8	6168.0	6079.3	6083.4	6103.5	6067.3	6031.0	6063.2	6075.3	6063.2
35°	6353.3	6425.8	6441.9	6373.4	6337.2	6437.9	6365.4	6486.2	6381.5	6385.5	6276.7
37.5°	6691.7	6711.9	6848.8	6772.3	6740.1	6691.7	6824.7	6808.5	6832.7	6639.3	6736.0
40°	7074.4	7147.0	7223.5	7030.1	7026.1	7070.4	7062.4	7155.0	7110.7	7082.5	7014.0
42.5°	7493.4	7646.5	7658.6	7529.7	7449.1	7441.1	7481.3	7686.8	7690.8	7505.5	7424.9
45°	8049.4	8218.6	8174.3	7924.5	7835.9	7823.8	8021.2	8109.8	8186.4	8113.8	8045.4
47.5°	8742.3	8855.1	8822.9	8593.3	8307.2	8387.8	8581.2	8859.2	8778.6	8681.9	8601.3
50°	9483.6	9616.6	9548.1	9318.4	9044.5	9044.5	9282.2	9636.7	9612.5	9423.2	9350.7
52.5°	10305.5	10498.9	10656.0	10329.6	10100.0	10136.3	10510.9	10639.9	10579.4	10446.5	10386.0
55°	10917.8	11288.5	11610.8	11626.9	11639.0	11635.0	11731.6	11860.6	11429.5	11216.0	10998.4
57.5°	10768.8	11469.8	12573.6	13323.0	13544.6	13661.4	13629.2	13032.9	12013.7	11312.7	11385.2
60°	9705.2	10849.3	12630.0	15035.2	16646.7	16485.5	15897.3	13540.5	11691.4	10506.9	10357.8
62.5°	7743.2	9121.0	11683.3	15518.6	19958.3	19909.9	16832.0	12368.2	9741.5	8242.8	8150.1
64°	5833.6	7283.9	10422.3	15393.7	21118.6	21166.9	16594.3	10925.9	7622.3	5833.6	5692.6
65°	4463.8	5809.4	9185.5	15135.9	20868.8	20897.0	15933.6	9435.3	5793.3	4141.5	3988.4
67.5°	1776.7	2473.6	4983.5	11477.8	17919.8	17843.2	11369.1	4564.5	2215.8	1442.3	1414.1
70°	757.4	942.7	1748.5	5438.8	11997.5	11776.0	4894.9	1482.6	821.9	688.9	684.9
72.5°	519.7	576.1	749.3	1680.0	4987.6	4870.7	1393.9	688.9	560.0	515.7	515.7
75°	419.0	459.3	543.9	705.0	1321.4	1273.1	656.7	507.6	447.2	415.0	410.9
77.5°	326.3	366.6	427.0	487.5	604.3	600.3	439.1	382.7	346.5	322.3	314.2
80°	257.8	298.1	338.4	346.5	394.8	386.8	298.1	302.2	282.0	233.7	229.6
82.5°	177.3	241.7	269.9	245.8	233.7	233.7	213.5	213.5	197.4	145.0	132.9
85°	108.8	161.1	169.2	145.0	108.8	108.8	116.8	112.8	104.7	76.5	72.5
87.5°	56.4	76.5	68.5	56.4	36.3	36.3	32.2	24.2	24.2	20.1	20.1
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)