

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: P479123

Luminaire Tested: **IFLD-L-SA8B-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479123
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

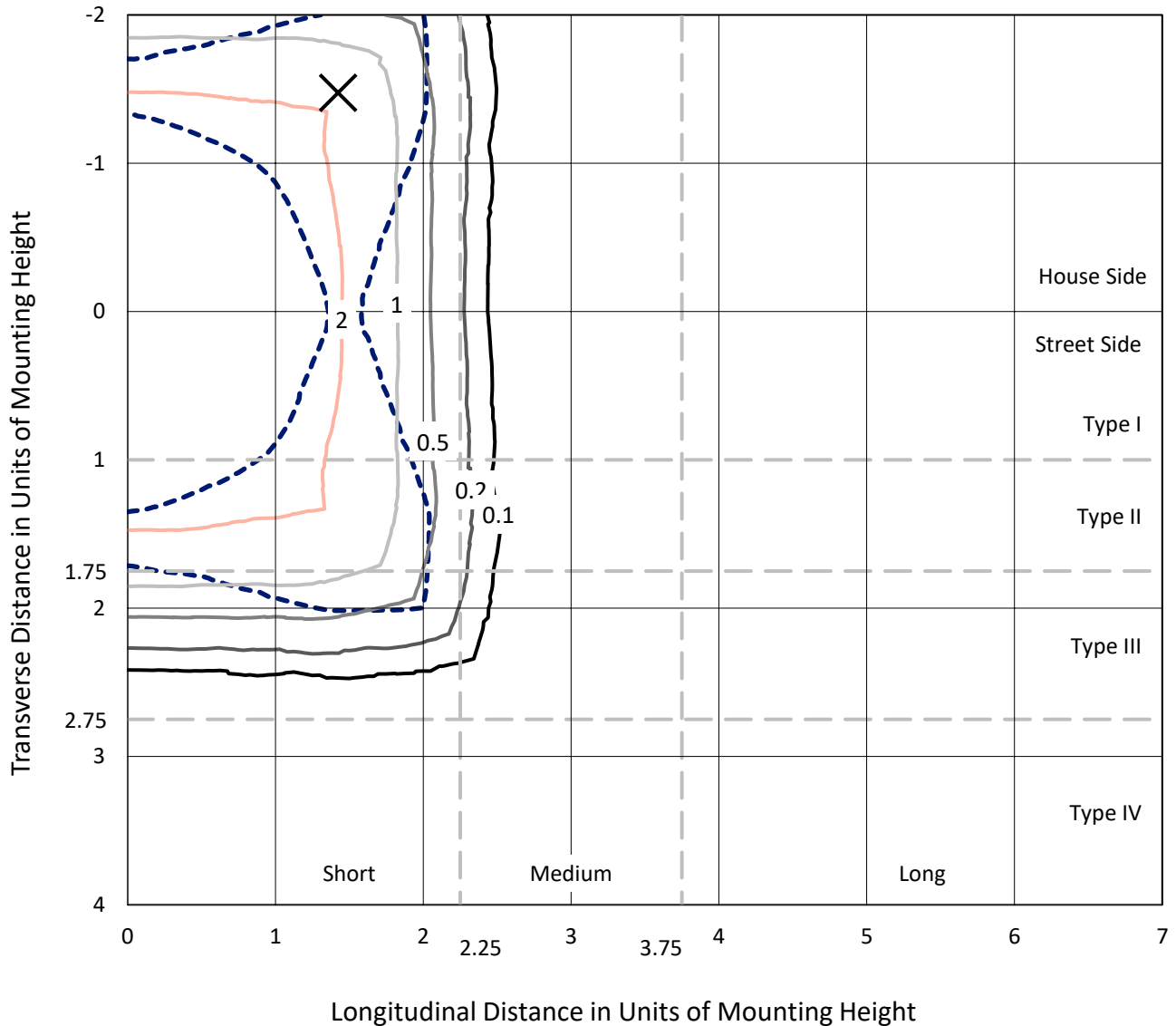
Lumens per Lamp: N/A
Luminaire Lumens: 32254.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

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

REPORT NUMBER: P479123
 CATALOG NUMBER: IFLD-L-SA8B-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

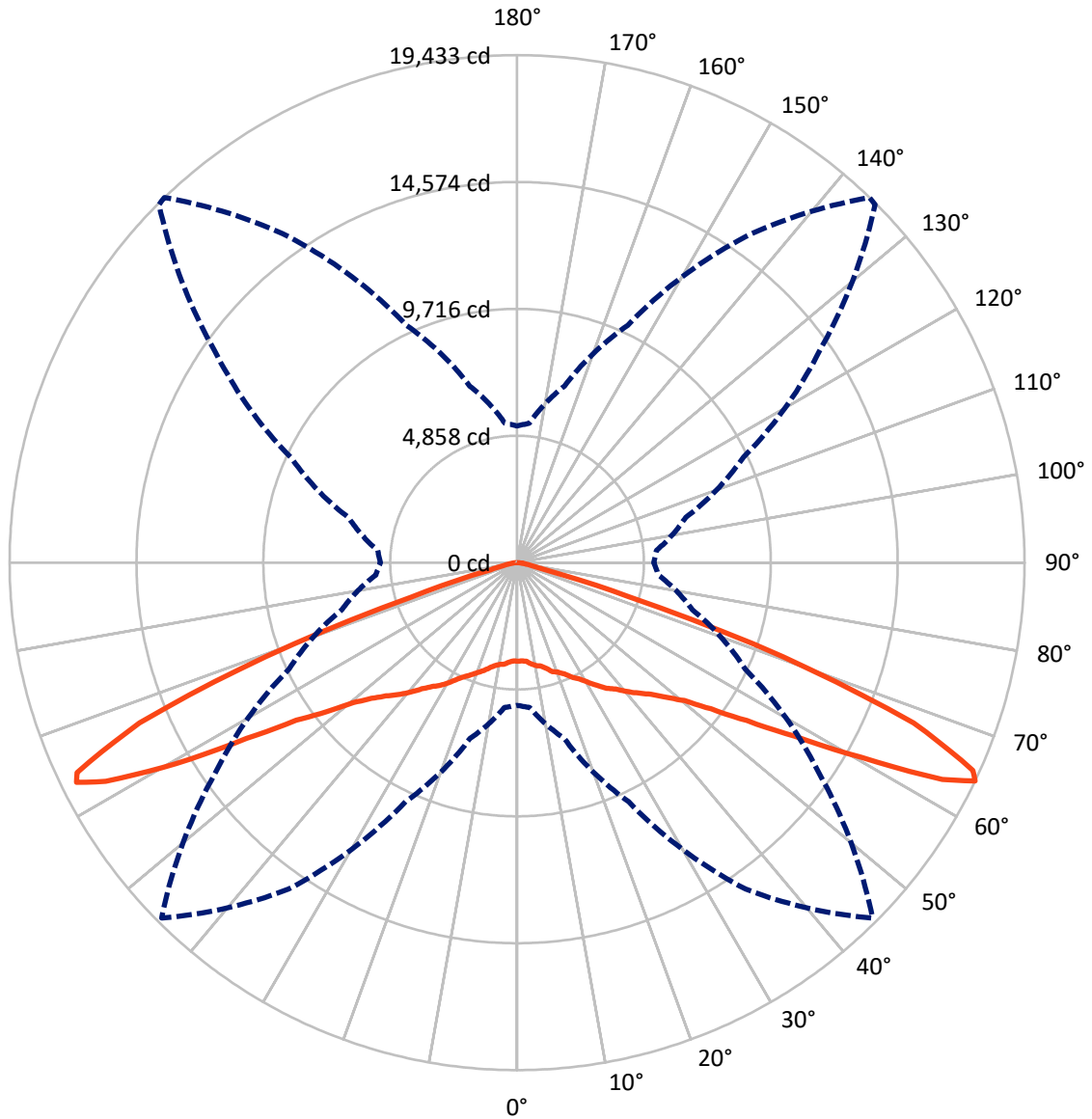
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479123
CATALOG NUMBER: IFLD-L-SA8B-830-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479123

CATALOG NUMBER: IFLD-L-SA8B-830-U-5NQ

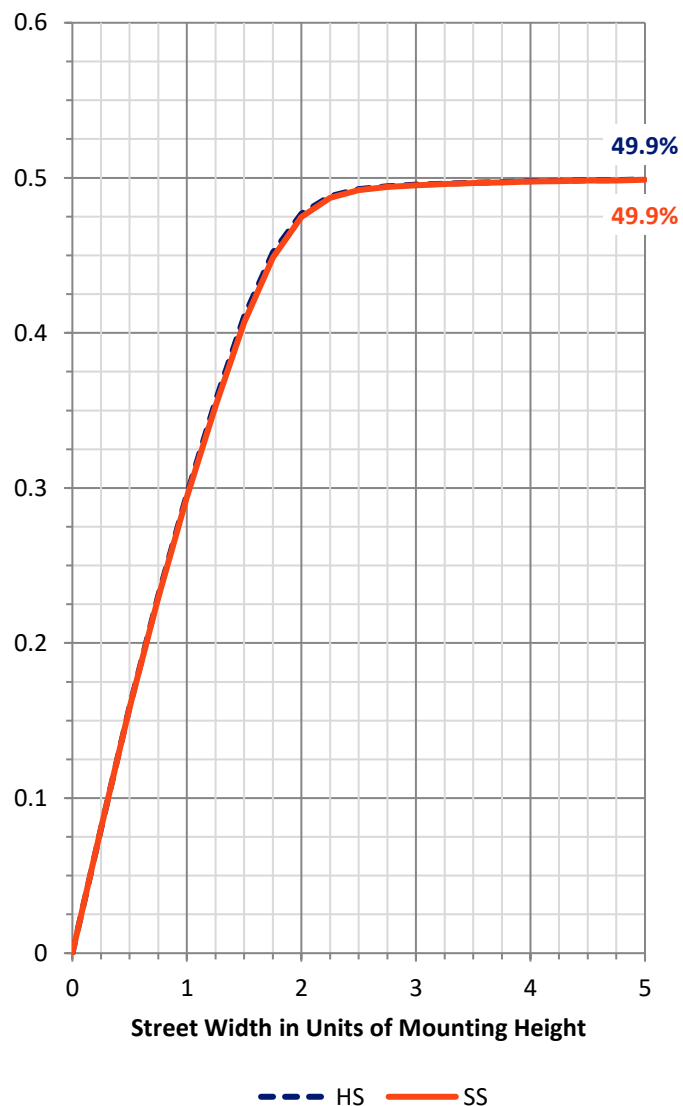
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16142.5	0.0	16142.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16111.7	0.0	16111.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	32254.2	0.0	32254.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.1	1.2
10°-20°	1195.9	3.7
20°-30°	2247.6	7.0
30°-40°	3706.6	11.5
40°-50°	5796.9	18.0
50°-60°	9366.5	29.0
60°-70°	8433.9	26.1
70°-80°	999.0	3.1
80°-90°	136.8	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°	32254.2	100.0
0°-180°	32254.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479123

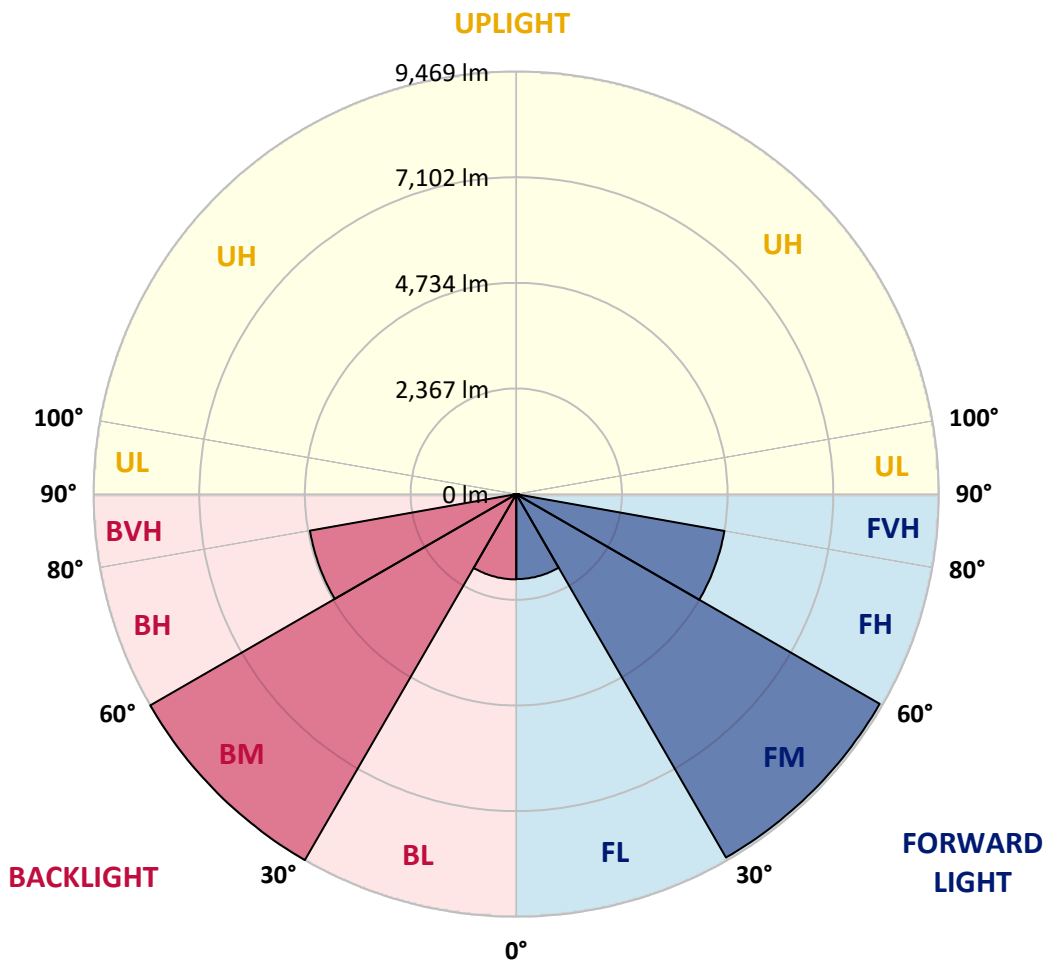
CATALOG NUMBER: IFLD-L-SA8B-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.6	5.9			
FM (30°-60°)	9401.1	29.1			
FH (60°-80°)	4736.9	14.7			G2/5000
FVH (80°-90°)	70.2	0.2			G1/100
BL (0°-30°)	1910.9	5.9	B3/2500		
BM (30°-60°)	9468.9	29.4	B5		
BH (60°-80°)	4696.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	66.6	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





REPORT NUMBER: P479123

CATALOG NUMBER: IFLD-L-SA8B-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3
2.5°	3731.9	3739.3	3805.9	3780.0	3802.2	3761.5	3791.1	3854.0	3780.0	3835.5	3854.0
5°	3772.6	3783.7	3783.7	3809.6	3824.4	3817.0	3835.5	3809.6	3879.9	3850.3	3894.7
7.5°	3920.6	3902.1	3872.5	3894.7	3898.4	3916.9	3935.3	3968.6	3957.5	3931.7	3976.0
10°	3946.4	3931.7	3976.0	3979.7	3961.2	3946.4	3964.9	3964.9	3998.2	4005.6	4005.6
12.5°	3990.8	4005.6	4001.9	4031.5	4035.2	4024.1	4053.7	4109.2	4094.4	4105.5	4079.6
15°	4161.0	4142.5	4138.8	4168.4	4216.4	4146.2	4198.0	4194.3	4179.5	4201.7	4142.5
17.5°	4308.9	4249.7	4275.6	4323.7	4305.2	4320.0	4386.6	4327.4	4342.2	4316.3	4297.8
20°	4438.4	4390.3	4394.0	4412.5	4412.5	4456.9	4482.7	4460.6	4445.8	4442.1	4449.5
22.5°	4582.6	4527.1	4530.8	4608.5	4634.4	4619.6	4601.1	4638.1	4645.5	4615.9	4649.2
25°	4689.9	4749.0	4767.5	4804.5	4749.0	4789.7	4774.9	4845.2	4889.6	4830.4	4871.1
27.5°	4971.0	4945.1	4993.2	4989.5	5033.8	4993.2	5019.0	5041.2	5059.7	5063.4	5044.9
30°	5222.5	5233.6	5185.5	5314.9	5211.4	5278.0	5322.3	5333.4	5355.6	5355.6	5300.1
32.5°	5488.8	5466.6	5544.3	5514.7	5496.2	5548.0	5499.9	5651.5	5562.7	5614.5	5551.7
35°	5788.4	5788.4	5818.0	5899.3	5788.4	5755.1	5843.8	5906.7	5906.7	5814.3	5836.4
37.5°	6124.9	6095.4	6132.3	6235.9	6150.8	6039.9	6202.6	6228.5	6210.0	6184.1	6139.7
40°	6361.7	6354.3	6428.2	6565.1	6443.0	6420.8	6450.4	6520.7	6542.9	6568.8	6509.6
42.5°	6761.1	6794.4	7008.9	6975.6	6875.8	6798.1	6790.7	7053.3	6990.4	6923.8	6890.6
45°	7352.9	7323.3	7434.3	7438.0	7308.5	7138.4	7175.4	7415.8	7523.0	7375.1	7430.6
47.5°	7822.6	7837.4	7915.1	8074.1	7774.5	7597.0	7733.8	8122.2	8088.9	8033.4	8085.2
50°	8451.4	8518.0	8762.1	8706.6	8440.3	8222.1	8521.7	8887.8	8928.5	8725.1	8688.1
52.5°	9320.6	9424.1	9557.3	9601.7	9346.5	9268.8	9287.3	9742.2	9642.3	9446.3	9320.6
55°	10082.5	10130.6	10374.7	10740.8	10722.3	10348.8	10563.3	10733.4	10326.6	9923.4	9956.7
57.5°	10408.0	10430.2	11110.7	11843.0	12279.5	12364.5	12120.4	11547.1	10578.1	9801.4	9753.3
60°	9598.0	9808.8	10629.9	12283.2	14276.7	15260.6	13636.9	11639.6	9990.0	9046.9	8976.6
62.5°	7671.0	7682.1	8902.6	11410.3	15519.5	18097.4	14217.6	10770.4	8421.8	7352.9	7071.8
64°	5462.9	5566.4	6968.2	10101.0	15260.6	19251.4	14147.3	9634.9	6942.3	5425.9	5229.9
65°	3920.6	4064.8	5418.5	8769.5	14654.0	19114.6	13936.5	8658.5	5614.5	4142.5	3942.7
67.5°	1442.5	1501.6	2126.7	4386.6	10522.6	16288.8	11044.1	4760.1	2467.0	1756.9	1579.3
70°	669.5	673.2	787.8	1449.9	4601.1	10892.5	5270.6	1786.4	928.4	736.0	684.2
72.5°	491.9	503.0	551.1	669.5	1353.7	4612.2	1731.0	732.3	543.7	480.8	469.7
75°	399.5	406.8	421.6	484.5	625.1	1235.3	702.7	506.7	432.7	388.4	373.6
77.5°	307.0	307.0	340.3	369.9	414.2	577.0	466.0	403.2	351.4	307.0	295.9
80°	221.9	225.6	266.3	288.5	281.1	381.0	336.6	332.9	288.5	240.4	221.9
82.5°	129.5	140.5	192.3	207.1	199.7	225.6	244.1	258.9	225.6	166.4	151.6
85°	74.0	77.7	111.0	114.7	114.7	107.3	140.5	155.3	151.6	103.6	92.5
87.5°	22.2	22.2	29.6	29.6	33.3	37.0	55.5	66.6	74.0	51.8	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479123
 CATALOG NUMBER: IFLD-L-SA8B-830-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3
2.5°	3835.5	3780.0	3783.7	3798.5	3750.4	3768.9	3824.4	3783.7	3772.6	3750.4	3739.3
5°	3817.0	3876.2	3854.0	3861.4	3850.3	3798.5	3791.1	3824.4	3842.9	3809.6	3876.2
7.5°	3946.4	3920.6	3891.0	3902.1	3876.2	3920.6	3950.1	3883.6	3916.9	3898.4	3861.4
10°	4020.4	3972.3	3994.5	3987.1	3968.6	4013.0	3983.4	3976.0	3946.4	3905.8	3964.9
12.5°	4046.3	4101.8	4138.8	4075.9	4087.0	4064.8	4046.3	4046.3	4013.0	4001.9	4013.0
15°	4161.0	4209.0	4194.3	4242.3	4179.5	4201.7	4223.8	4168.4	4198.0	4116.6	4179.5
17.5°	4371.8	4331.1	4382.9	4320.0	4342.2	4386.6	4316.3	4316.3	4338.5	4294.1	4238.6
20°	4504.9	4486.4	4468.0	4471.7	4434.7	4475.3	4453.2	4442.1	4408.8	4423.6	4453.2
22.5°	4630.7	4604.8	4612.2	4623.3	4649.2	4630.7	4619.6	4630.7	4549.3	4623.3	4519.7
25°	4786.0	4856.3	4834.1	4882.2	4808.2	4856.3	4852.6	4782.3	4826.7	4797.1	4774.9
27.5°	5044.9	5008.0	5041.2	4982.1	5033.8	5037.5	4993.2	5111.5	5059.7	5052.3	5037.5
30°	5377.8	5351.9	5329.7	5296.4	5337.1	5303.8	5340.8	5351.9	5303.8	5266.9	5196.6
32.5°	5566.4	5636.7	5662.6	5581.2	5584.9	5603.4	5570.1	5536.9	5566.4	5577.5	5566.4
35°	5832.7	5899.3	5914.1	5851.2	5818.0	5910.4	5843.8	5954.8	5858.6	5862.3	5762.5
37.5°	6143.4	6161.9	6287.7	6217.4	6187.8	6143.4	6265.5	6250.7	6272.9	6095.4	6184.1
40°	6494.8	6561.4	6631.7	6454.1	6450.4	6491.1	6483.7	6568.8	6528.1	6502.2	6439.3
42.5°	6879.5	7020.0	7031.1	6912.8	6838.8	6831.4	6868.4	7057.0	7060.7	6890.6	6816.6
45°	7389.9	7545.2	7504.5	7275.2	7193.8	7182.8	7364.0	7445.4	7515.6	7449.1	7386.2
47.5°	8026.0	8129.6	8100.0	7889.2	7626.6	7700.6	7878.1	8133.3	8059.3	7970.6	7896.6
50°	8706.6	8828.6	8765.8	8554.9	8303.4	8303.4	8521.7	8847.1	8824.9	8651.1	8584.5
52.5°	9461.1	9638.6	9782.9	9483.3	9272.5	9305.8	9649.7	9768.1	9712.6	9590.6	9535.1
55°	10023.3	10363.6	10659.5	10674.3	10685.4	10681.7	10770.4	10888.8	10493.0	10297.0	10097.3
57.5°	9886.5	10530.0	11543.4	12231.4	12434.8	12542.1	12512.5	11965.1	11029.3	10385.8	10452.3
60°	8910.0	9960.4	11595.2	13803.3	15282.8	15134.8	14594.8	12431.1	10733.4	9646.0	9509.2
62.5°	7108.8	8373.7	10726.0	14247.1	18323.0	18278.7	15452.9	11354.8	8943.3	7567.4	7482.3
64°	5355.6	6687.1	9568.4	14132.5	19388.2	19432.6	15234.7	10030.7	6997.8	5355.6	5226.2
65°	4098.1	5333.4	8432.9	13895.8	19158.9	19184.8	14628.1	8662.2	5318.6	3802.2	3661.6
67.5°	1631.1	2271.0	4575.2	10537.4	16451.5	16381.3	10437.6	4190.6	2034.2	1324.1	1298.2
70°	695.3	865.5	1605.2	4993.2	11014.5	10811.1	4493.8	1361.1	754.5	632.5	628.8
72.5°	477.1	528.9	687.9	1542.3	4578.9	4471.7	1279.7	632.5	514.1	473.4	473.4
75°	384.7	421.6	499.3	647.3	1213.2	1168.8	602.9	466.0	410.5	381.0	377.3
77.5°	299.6	336.6	392.1	447.5	554.8	551.1	403.2	351.4	318.1	295.9	288.5
80°	236.7	273.7	310.7	318.1	362.5	355.1	273.7	277.4	258.9	214.5	210.8
82.5°	162.7	221.9	247.8	225.6	214.5	214.5	196.0	196.0	181.2	133.2	122.1
85°	99.9	147.9	155.3	133.2	99.9	99.9	107.3	103.6	96.2	70.3	66.6
87.5°	51.8	70.3	62.9	51.8	33.3	33.3	29.6	22.2	22.2	18.5	18.5
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)