

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: P479118

Luminaire Tested: **IFLD-L-SA7B-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479118
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

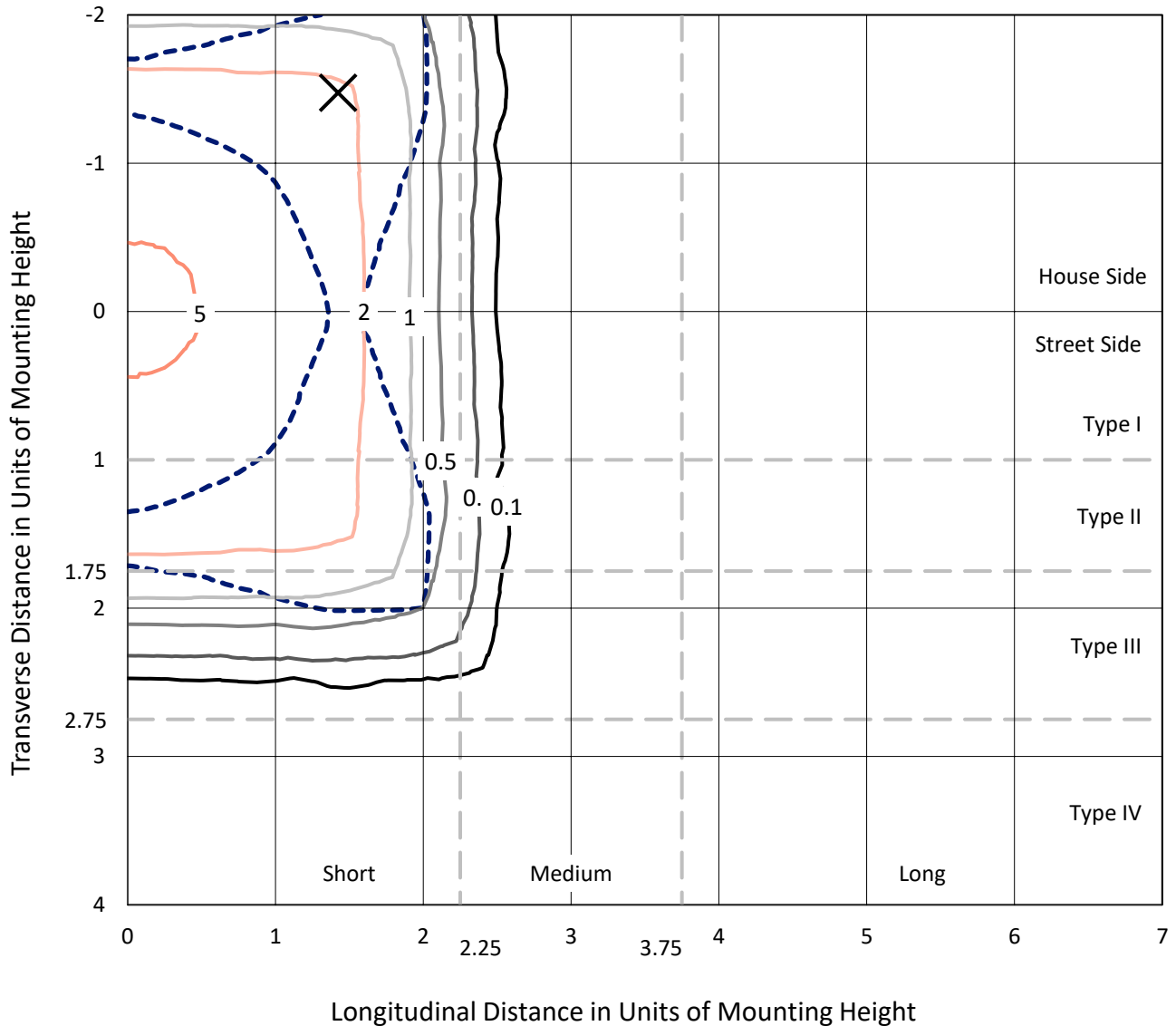
Lumens per Lamp: N/A
Luminaire Lumens: 28223 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 281
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: P479118
 CATALOG NUMBER: IFLD-L-SA7B-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

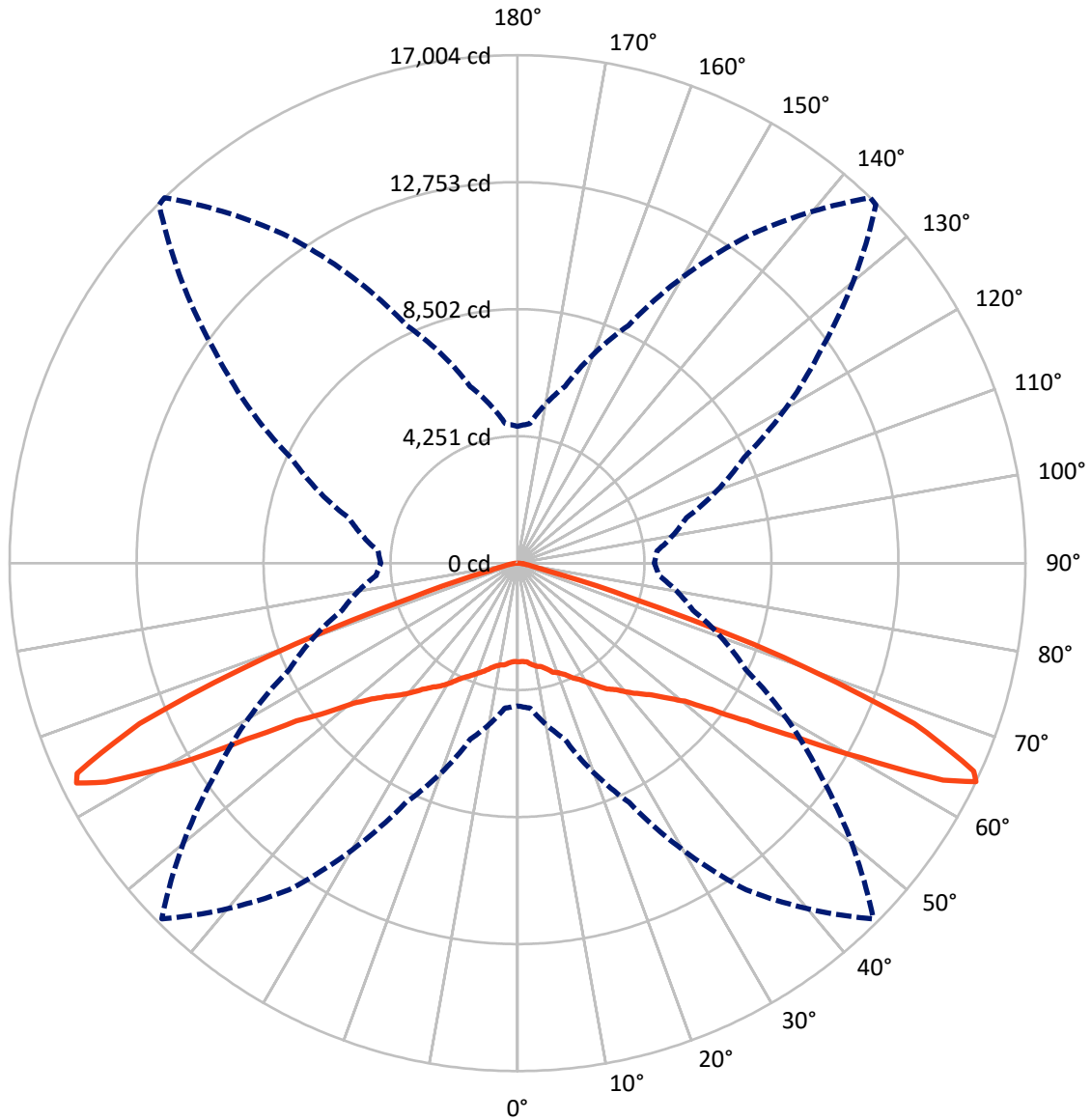
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P479118
CATALOG NUMBER: IFLD-L-SA7B-830-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479118
 CATALOG NUMBER: IFLD-L-SA7B-830-U-5NQ

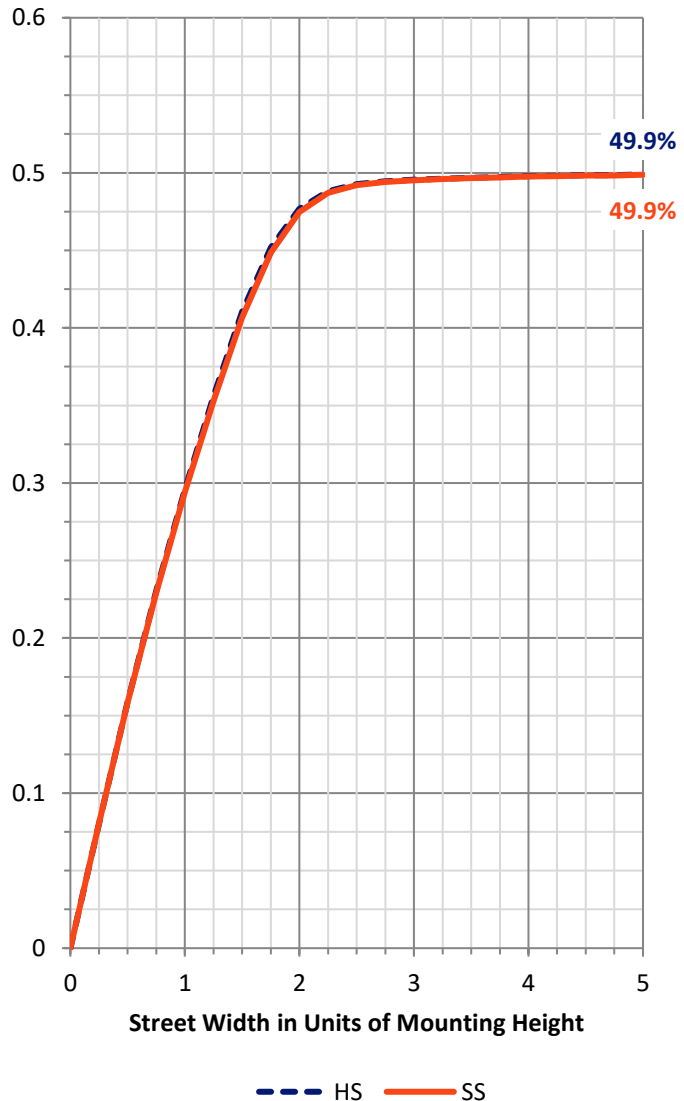
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14125.0	0.0	14125.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14098.1	0.0	14098.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	28223.0	0.0	28223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	1.2
10°-20°	1046.4	3.7
20°-30°	1966.7	7.0
30°-40°	3243.4	11.5
40°-50°	5072.4	18.0
50°-60°	8195.8	29.0
60°-70°	7379.8	26.1
70°-80°	874.2	3.1
80°-90°	119.7	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°	28223.0	100.0
0°-180°	28223.0	100.0

Coefficient of Utilization



REPORT NUMBER: P479118

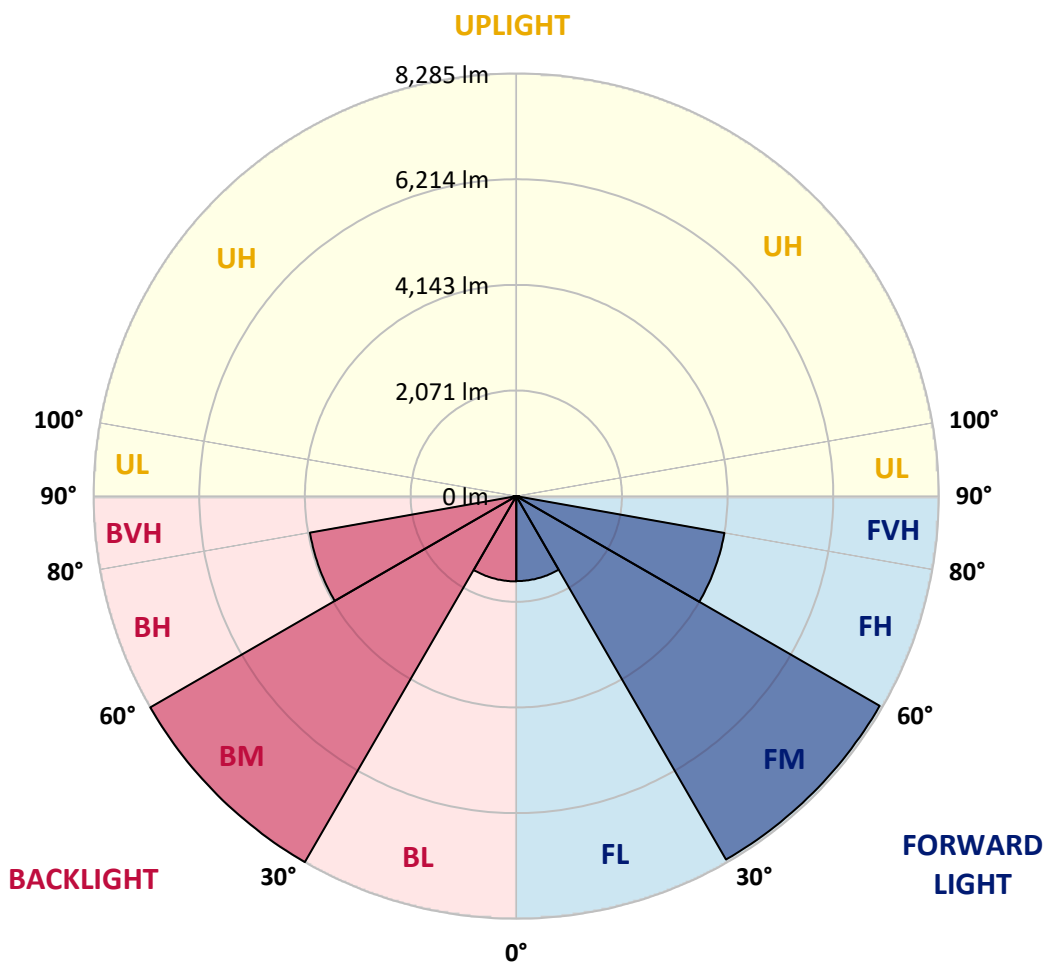
CATALOG NUMBER: IFLD-L-SA7B-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.7	5.9			
FM (30°-60°)	8226.1	29.1			
FH (60°-80°)	4144.9	14.7			G2/5000
FVH (80°-90°)	61.4	0.2			G1/100
BL (0°-30°)	1672.1	5.9	B3/2500		
BM (30°-60°)	8285.5	29.4	B4/8500		
BH (60°-80°)	4109.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	58.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479118

CATALOG NUMBER: IFLD-L-SA7B-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3265.5	3272.0	3330.2	3307.6	3327.0	3291.4	3317.3	3372.3	3307.6	3356.1	3372.3
5°	3301.1	3310.8	3310.8	3333.5	3346.4	3339.9	3356.1	3333.5	3395.0	3369.1	3407.9
7.5°	3430.6	3414.4	3388.5	3407.9	3411.1	3427.3	3443.5	3472.6	3462.9	3440.3	3479.1
10°	3453.2	3440.3	3479.1	3482.3	3466.2	3453.2	3469.4	3469.4	3498.5	3505.0	3505.0
12.5°	3492.0	3505.0	3501.8	3527.6	3530.9	3521.2	3547.1	3595.6	3582.7	3592.4	3569.7
15°	3640.9	3624.7	3621.5	3647.4	3689.5	3628.0	3673.3	3670.0	3657.1	3676.5	3624.7
17.5°	3770.4	3718.6	3741.2	3783.3	3767.1	3780.1	3838.3	3786.6	3799.5	3776.8	3760.7
20°	3883.6	3841.6	3844.8	3861.0	3861.0	3899.8	3922.5	3903.1	3890.1	3886.9	3893.4
22.5°	4009.9	3961.3	3964.6	4032.5	4055.2	4042.2	4026.0	4058.4	4064.9	4039.0	4068.1
25°	4103.7	4155.5	4171.7	4204.0	4155.5	4191.1	4178.2	4239.6	4278.5	4226.7	4262.3
27.5°	4349.7	4327.0	4369.1	4365.9	4404.7	4369.1	4391.8	4411.2	4427.4	4430.6	4414.4
30°	4569.8	4579.5	4537.4	4650.7	4560.0	4618.3	4657.1	4666.8	4686.3	4686.3	4637.7
32.5°	4802.8	4783.4	4851.3	4825.4	4809.3	4854.6	4812.5	4945.2	4867.5	4912.8	4857.8
35°	5064.9	5064.9	5090.8	5162.0	5064.9	5035.8	5113.5	5168.5	5168.5	5087.6	5107.0
37.5°	5359.4	5333.5	5365.9	5456.5	5382.1	5285.0	5427.4	5450.1	5433.9	5411.2	5372.4
40°	5566.6	5560.1	5624.8	5744.6	5637.8	5618.3	5644.2	5705.7	5725.1	5747.8	5696.0
42.5°	5916.1	5945.2	6132.9	6103.8	6016.4	5948.5	5942.0	6171.8	6116.7	6058.5	6029.4
45°	6433.9	6408.0	6505.1	6508.3	6395.1	6246.2	6278.6	6488.9	6582.8	6453.3	6501.9
47.5°	6844.9	6857.9	6925.8	7065.0	6802.9	6647.5	6767.3	7107.1	7077.9	7029.4	7074.7
50°	7395.1	7453.4	7667.0	7618.4	7385.4	7194.5	7456.6	7777.0	7812.6	7634.6	7602.2
52.5°	8155.7	8246.3	8362.8	8401.6	8178.3	8110.4	8126.5	8524.6	8437.2	8265.7	8155.7
55°	8822.4	8864.4	9078.0	9398.4	9382.2	9055.4	9243.1	9392.0	9036.0	8683.2	8712.3
57.5°	9107.2	9126.6	9722.1	10362.9	10744.8	10819.2	10605.6	10104.0	9256.0	8576.4	8534.3
60°	8398.4	8582.9	9301.3	10748.0	12492.4	13353.3	11932.5	10184.9	8741.4	7916.2	7854.7
62.5°	6712.2	6721.9	7789.9	9984.2	13579.8	15835.6	12440.6	9424.3	7369.2	6433.9	6187.9
64°	4780.1	4870.7	6097.3	8838.5	13353.3	16845.3	12379.1	8430.8	6074.7	4747.8	4576.2
65°	3430.6	3556.8	4741.3	7673.4	12822.5	16725.6	12194.7	7576.3	4912.8	3624.7	3450.0
67.5°	1262.2	1314.0	1860.9	3838.3	9207.5	14253.0	9663.8	4165.2	2158.7	1537.3	1381.9
70°	585.8	589.0	689.3	1268.7	4026.0	9531.1	4611.8	1563.2	812.3	644.0	598.7
72.5°	430.4	440.1	482.2	585.8	1184.5	4035.8	1514.6	640.8	475.7	420.7	411.0
75°	349.5	356.0	368.9	424.0	546.9	1080.9	614.9	443.4	378.7	339.8	326.9
77.5°	268.6	268.6	297.7	323.6	362.5	504.9	407.8	352.8	307.5	268.6	258.9
80°	194.2	197.4	233.0	252.4	246.0	333.3	294.5	291.3	252.4	210.4	194.2
82.5°	113.3	123.0	168.3	181.2	174.8	197.4	213.6	226.5	197.4	145.6	132.7
85°	64.7	68.0	97.1	100.3	100.3	93.9	123.0	135.9	132.7	90.6	80.9
87.5°	19.4	19.4	25.9	25.9	29.1	32.4	48.5	58.3	64.7	45.3	42.1
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: P479118
 CATALOG NUMBER: IFLD-L-SA7B-830-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3356.1	3307.6	3310.8	3323.8	3281.7	3297.9	3346.4	3310.8	3301.1	3281.7	3272.0
5°	3339.9	3391.7	3372.3	3378.8	3369.1	3323.8	3317.3	3346.4	3362.6	3333.5	3391.7
7.5°	3453.2	3430.6	3404.7	3414.4	3391.7	3430.6	3456.4	3398.2	3427.3	3411.1	3378.8
10°	3517.9	3475.9	3495.3	3488.8	3472.6	3511.5	3485.6	3479.1	3453.2	3417.6	3469.4
12.5°	3540.6	3589.1	3621.5	3566.5	3576.2	3556.8	3540.6	3540.6	3511.5	3501.8	3511.5
15°	3640.9	3683.0	3670.0	3712.1	3657.1	3676.5	3695.9	3647.4	3673.3	3602.1	3657.1
17.5°	3825.4	3789.8	3835.1	3780.1	3799.5	3838.3	3776.8	3776.8	3796.3	3757.4	3708.9
20°	3941.9	3925.7	3909.5	3912.8	3880.4	3916.0	3896.6	3886.9	3857.8	3870.7	3896.6
22.5°	4051.9	4029.3	4035.8	4045.5	4068.1	4051.9	4042.2	4051.9	3980.7	4045.5	3954.8
25°	4187.9	4249.4	4229.9	4272.0	4207.3	4249.4	4246.1	4184.6	4223.5	4197.6	4178.2
27.5°	4414.4	4382.0	4411.2	4359.4	4404.7	4407.9	4369.1	4472.7	4427.4	4420.9	4407.9
30°	4705.7	4683.0	4663.6	4634.5	4670.1	4641.0	4673.3	4683.0	4641.0	4608.6	4547.1
32.5°	4870.7	4932.2	4954.9	4883.7	4886.9	4903.1	4874.0	4844.9	4870.7	4880.5	4870.7
35°	5103.8	5162.0	5175.0	5119.9	5090.8	5171.7	5113.5	5210.6	5126.4	5129.7	5042.3
37.5°	5375.6	5391.8	5501.8	5440.3	5414.5	5375.6	5482.4	5469.5	5488.9	5333.5	5411.2
40°	5683.1	5741.3	5802.8	5647.5	5644.2	5679.8	5673.4	5747.8	5712.2	5689.5	5634.5
42.5°	6019.7	6142.6	6152.3	6048.8	5984.1	5977.6	6009.9	6175.0	6178.2	6029.4	5964.6
45°	6466.3	6602.2	6566.6	6365.9	6294.7	6285.0	6443.6	6514.8	6576.3	6518.1	6463.0
47.5°	7022.9	7113.5	7087.7	6903.2	6673.4	6738.1	6893.5	7116.8	7052.1	6974.4	6909.7
50°	7618.4	7725.2	7670.2	7485.7	7265.7	7265.7	7456.6	7741.4	7722.0	7569.9	7511.6
52.5°	8278.6	8434.0	8560.2	8298.1	8113.6	8142.7	8443.7	8547.3	8498.7	8391.9	8343.4
55°	8770.6	9068.3	9327.2	9340.2	9349.9	9346.6	9424.3	9527.9	9181.6	9010.1	8835.3
57.5°	8650.8	9214.0	10100.7	10702.7	10880.7	10974.5	10948.6	10469.7	9650.9	9087.7	9146.0
60°	7796.4	8715.6	10146.0	12078.1	13372.7	13243.2	12770.7	10877.4	9392.0	8440.5	8320.7
62.5°	6220.3	7327.1	9385.5	12466.5	16033.0	15994.2	13521.6	9935.7	7825.6	6621.6	6547.2
64°	4686.3	5851.4	8372.5	12366.2	16965.1	17003.9	13330.6	8777.0	6123.2	4686.3	4573.0
65°	3585.9	4666.8	7378.9	12159.1	16764.4	16787.1	12799.9	7579.6	4653.9	3327.0	3204.0
67.5°	1427.2	1987.1	4003.4	9220.4	14395.4	14333.9	9133.0	3666.8	1780.0	1158.6	1136.0
70°	608.4	757.3	1404.6	4369.1	9637.9	9459.9	3932.2	1191.0	660.2	553.4	550.2
72.5°	417.5	462.8	602.0	1349.6	4006.6	3912.8	1119.8	553.4	449.9	414.3	414.3
75°	336.6	368.9	436.9	566.4	1061.5	1022.7	527.5	407.8	359.2	333.3	330.1
77.5°	262.1	294.5	343.1	391.6	485.5	482.2	352.8	307.5	278.3	258.9	252.4
80°	207.1	239.5	271.9	278.3	317.2	310.7	239.5	242.7	226.5	187.7	184.5
82.5°	142.4	194.2	216.8	197.4	187.7	187.7	171.5	171.5	158.6	116.5	106.8
85°	87.4	129.5	135.9	116.5	87.4	87.4	93.9	90.6	84.1	61.5	58.3
87.5°	45.3	61.5	55.0	45.3	29.1	29.1	25.9	19.4	19.4	16.2	16.2
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)