

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: P478923

Luminaire Tested: **IFLD-L-SA7B-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478923
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

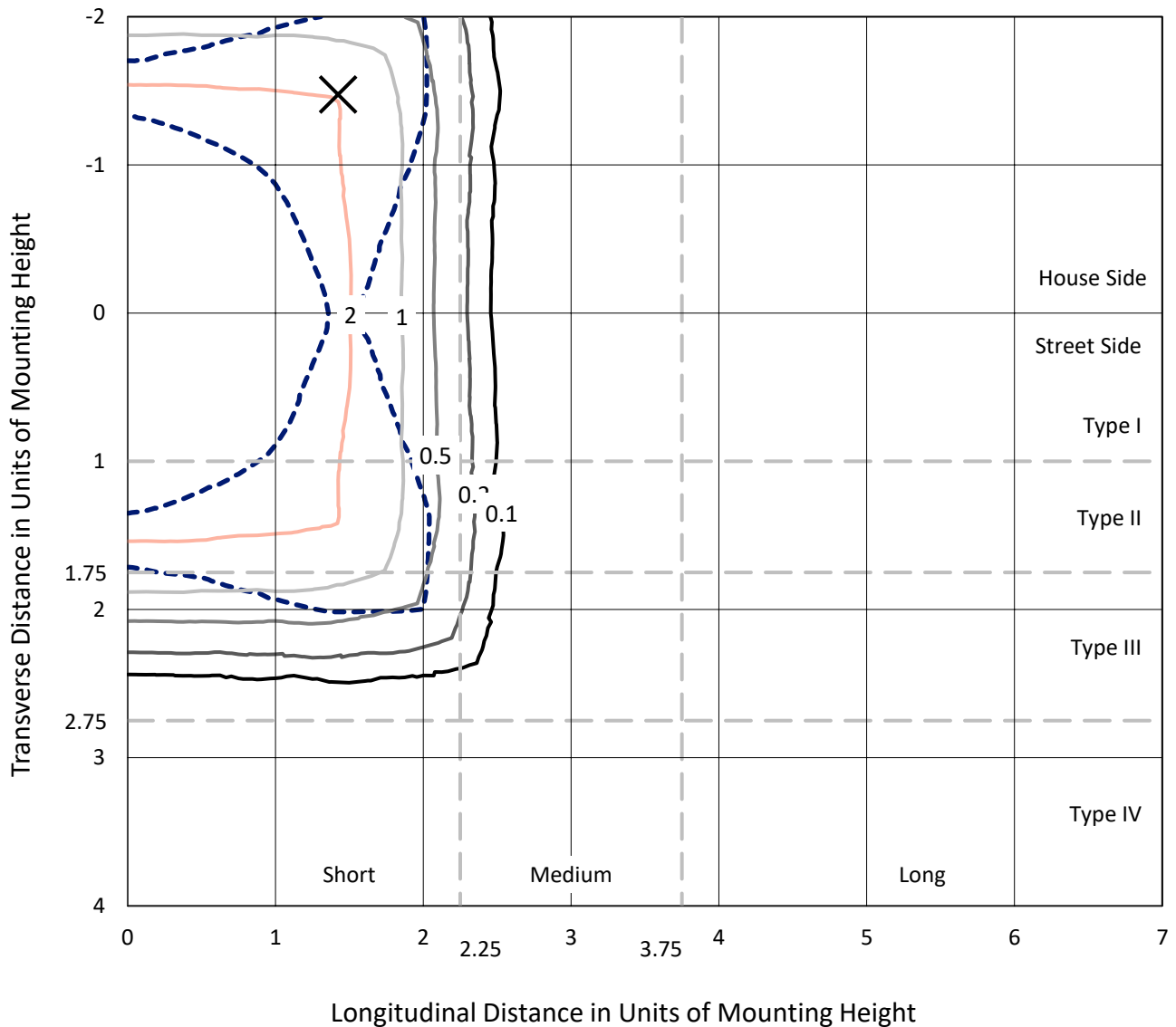
Lumens per Lamp: N/A
Luminaire Lumens: 35031.9 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 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: P478923
 CATALOG NUMBER: IFLD-L-SA7B-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

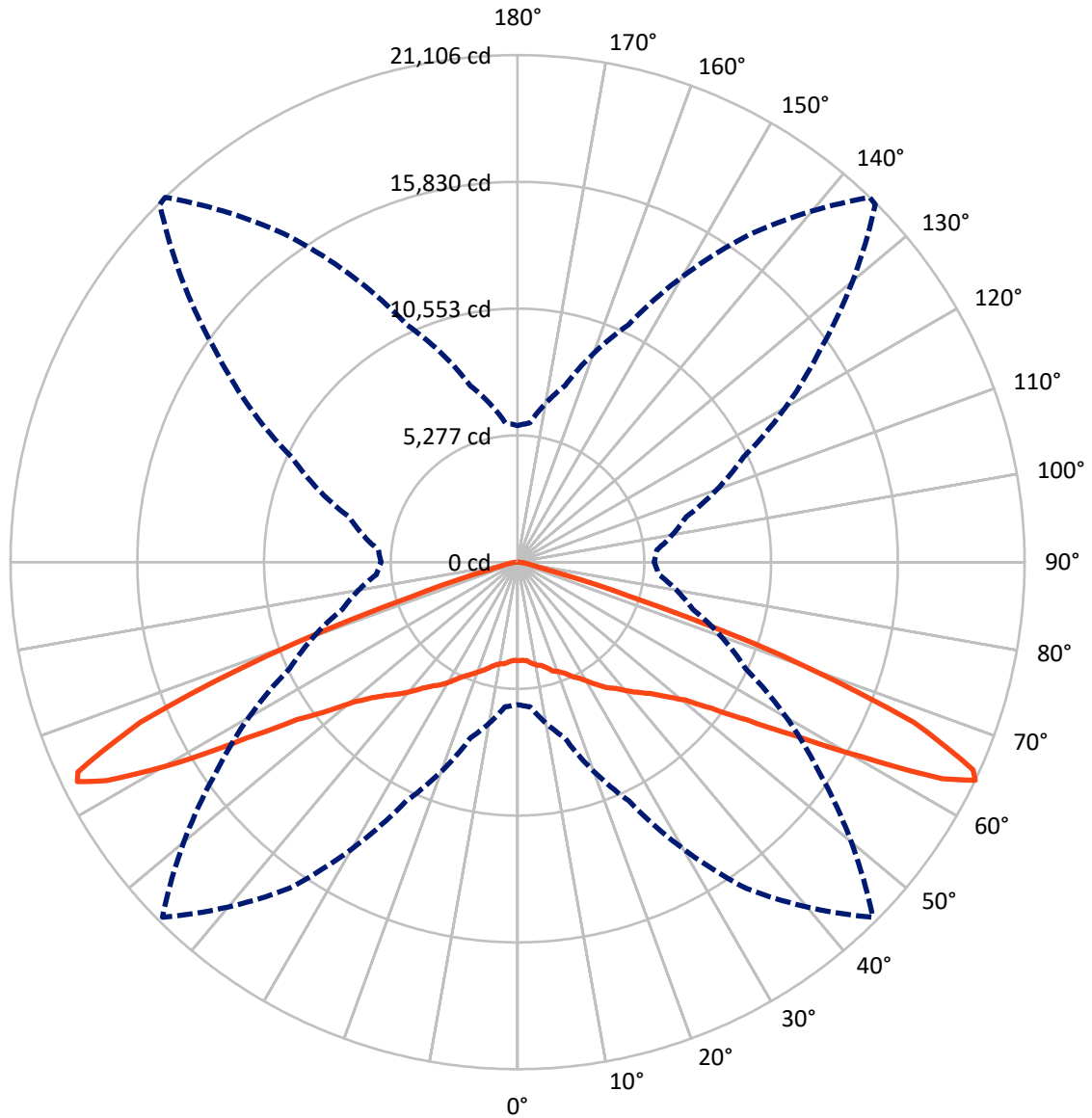
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P478923
CATALOG NUMBER: IFLD-L-SA7B-735-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478923

CATALOG NUMBER: IFLD-L-SA7B-735-U-5NQ

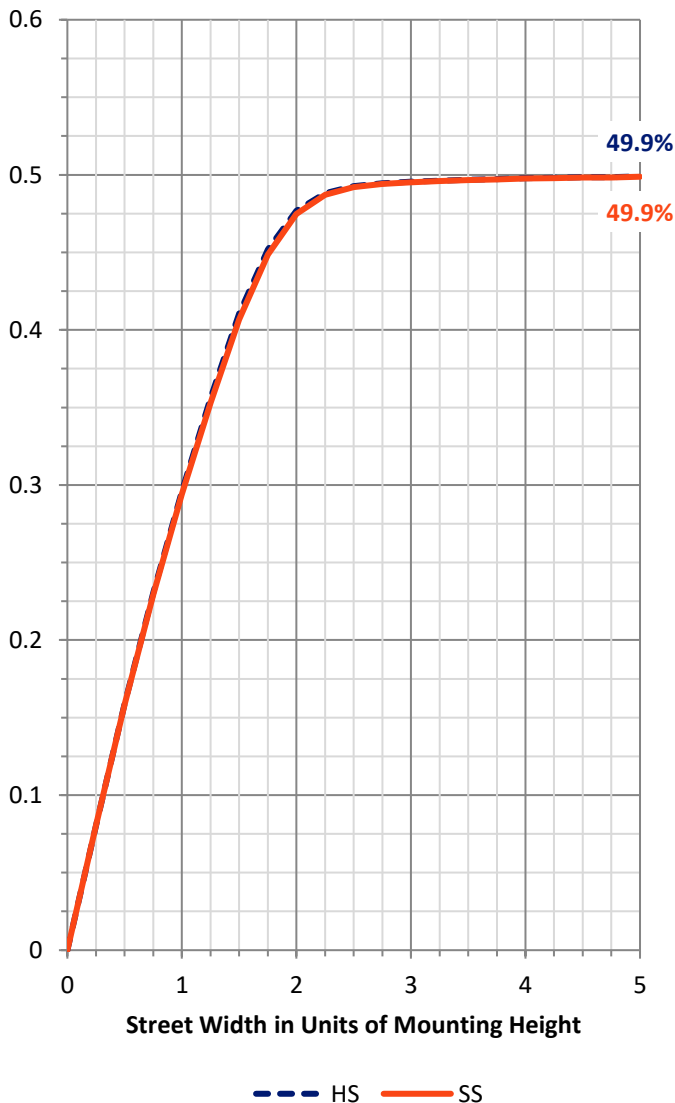
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17532.7	0.0	17532.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17499.3	0.0	17499.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	35031.9	0.0	35031.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.0	1.2
10°-20°	1298.9	3.7
20°-30°	2441.1	7.0
30°-40°	4025.9	11.5
40°-50°	6296.2	18.0
50°-60°	10173.1	29.0
60°-70°	9160.2	26.1
70°-80°	1085.1	3.1
80°-90°	148.5	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°	35031.9	100.0
0°-180°	35031.9	100.0



REPORT NUMBER: P478923

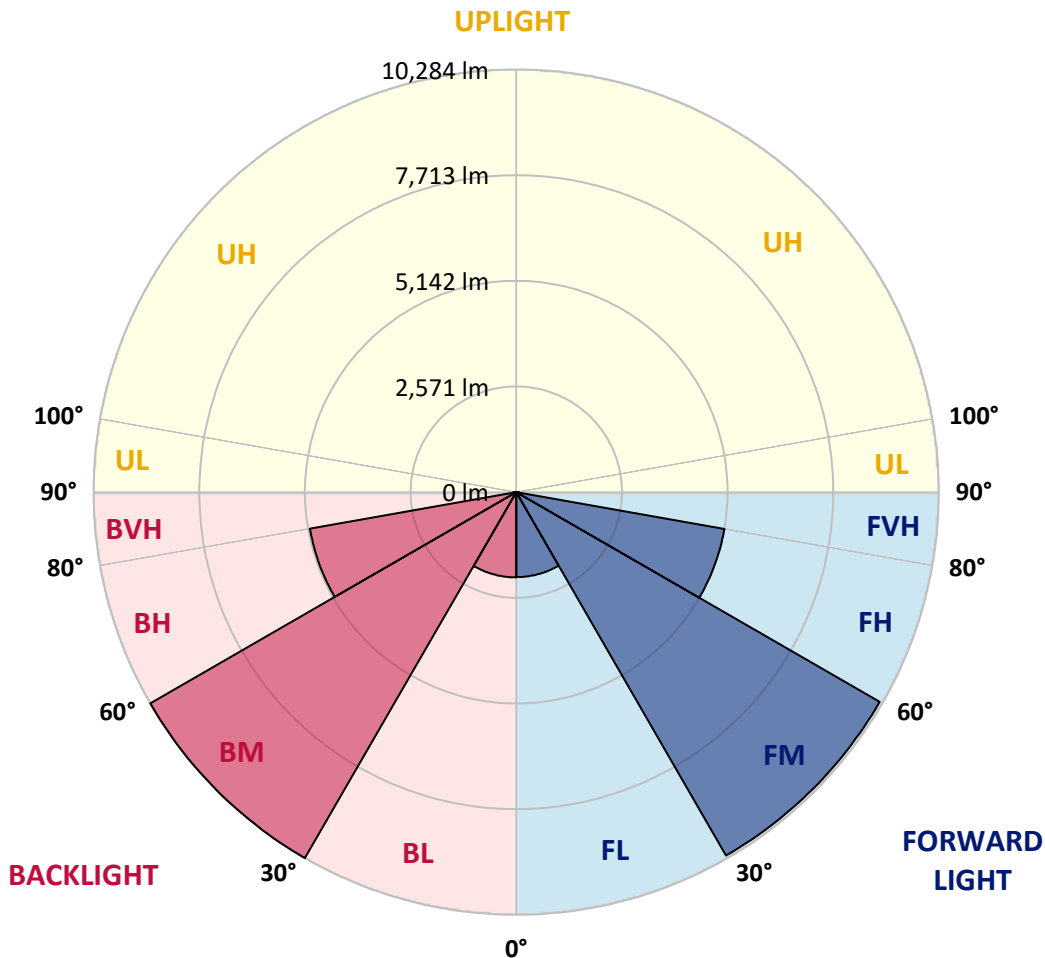
CATALOG NUMBER: IFLD-L-SA7B-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.5	5.9			
FM (30°-60°)	10210.7	29.1			
FH (60°-80°)	5144.8	14.7			G3/7500
FVH (80°-90°)	76.2	0.2			G1/100
BL (0°-30°)	2075.5	5.9	B3/2500		
BM (30°-60°)	10284.4	29.4	B5		
BH (60°-80°)	5100.4	14.6	B5		G3/7500
BVH (80°-90°)	72.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P478923
 CATALOG NUMBER: IFLD-L-SA7B-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5
2.5°	4053.3	4061.3	4133.7	4105.5	4129.6	4085.5	4117.6	4185.9	4105.5	4165.8	4185.9
5°	4097.5	4109.6	4109.6	4137.7	4153.7	4145.7	4165.8	4137.7	4214.0	4181.9	4230.1
7.5°	4258.2	4238.1	4206.0	4230.1	4234.1	4254.2	4274.3	4310.4	4298.4	4270.2	4318.4
10°	4286.3	4270.2	4318.4	4322.5	4302.4	4286.3	4306.4	4306.4	4342.5	4350.6	4350.6
12.5°	4334.5	4350.6	4346.6	4378.7	4382.7	4370.7	4402.8	4463.1	4447.0	4459.0	4430.9
15°	4519.3	4499.2	4495.2	4527.3	4579.6	4503.2	4559.5	4555.5	4539.4	4563.5	4499.2
17.5°	4680.0	4615.7	4643.8	4696.1	4676.0	4692.0	4764.4	4700.1	4716.1	4688.0	4667.9
20°	4820.6	4768.4	4772.4	4792.5	4792.5	4840.7	4868.8	4844.7	4828.6	4824.6	4832.6
22.5°	4977.3	4917.0	4921.0	5005.4	5033.5	5017.4	4997.3	5037.5	5045.6	5013.4	5049.6
25°	5093.8	5158.0	5178.1	5218.3	5158.0	5202.2	5186.2	5262.5	5310.7	5246.4	5290.6
27.5°	5399.1	5370.9	5423.2	5419.1	5467.4	5423.2	5451.3	5475.4	5495.5	5499.5	5479.4
30°	5672.2	5684.3	5632.1	5772.7	5660.2	5732.5	5780.7	5792.7	5816.8	5816.8	5756.6
32.5°	5961.5	5937.4	6021.7	5989.6	5969.5	6025.7	5973.5	6138.2	6041.8	6098.0	6029.8
35°	6286.9	6286.9	6319.0	6407.4	6286.9	6250.7	6347.1	6415.4	6415.4	6315.0	6339.1
37.5°	6652.4	6620.3	6660.5	6772.9	6680.5	6560.0	6736.8	6764.9	6744.8	6716.7	6668.5
40°	6909.5	6901.5	6981.8	7130.5	6997.9	6973.8	7005.9	7082.3	7106.4	7134.5	7070.2
42.5°	7343.4	7379.5	7612.5	7576.4	7467.9	7383.5	7375.5	7660.7	7592.4	7520.1	7484.0
45°	7986.1	7954.0	8074.5	8078.5	7937.9	7753.1	7793.3	8054.4	8170.9	8010.2	8070.5
47.5°	8496.3	8512.4	8596.7	8769.5	8444.1	8251.2	8399.9	8821.7	8785.5	8725.3	8781.5
50°	9179.2	9251.5	9516.7	9456.4	9167.2	8930.1	9255.5	9653.2	9697.4	9476.5	9436.3
52.5°	10123.2	10235.7	10380.3	10428.5	10151.4	10067.0	10087.1	10581.2	10472.7	10259.8	10123.2
55°	10950.8	11003.0	11268.1	11665.8	11645.7	11240.0	11473.0	11657.8	11215.9	10778.0	10814.2
57.5°	11304.3	11328.4	12067.5	12862.9	13337.0	13429.4	13164.2	12541.6	11489.1	10645.5	10593.2
60°	10424.5	10653.5	11545.3	13341.0	15506.2	16574.8	14811.3	12642.0	10850.3	9826.0	9749.6
62.5°	8331.6	8343.6	9669.3	12392.9	16856.0	19656.0	15442.0	11698.0	9147.1	7986.1	7680.8
64°	5933.3	6045.8	7568.3	10970.9	16574.8	20909.3	15365.6	10464.7	7540.2	5893.2	5680.3
65°	4258.2	4414.9	5885.1	9524.7	15916.0	20760.7	15136.7	9404.2	6098.0	4499.2	4282.3
67.5°	1566.7	1631.0	2309.9	4764.4	11428.8	17691.6	11995.2	5170.1	2679.4	1908.2	1715.3
70°	727.1	731.1	855.7	1574.7	4997.3	11830.5	5724.5	1940.3	1008.3	799.4	743.2
72.5°	534.3	546.3	598.6	727.1	1470.3	5009.4	1880.0	795.4	590.5	522.2	510.2
75°	433.9	441.9	458.0	526.2	678.9	1341.7	763.3	550.4	470.0	421.8	405.7
77.5°	333.4	333.4	369.6	401.7	449.9	626.7	506.2	437.9	381.6	333.4	321.4
80°	241.0	245.0	289.2	313.3	305.3	413.8	365.6	361.5	313.3	261.1	241.0
82.5°	140.6	152.7	208.9	225.0	216.9	245.0	265.1	281.2	245.0	180.8	164.7
85°	80.3	84.4	120.5	124.5	124.5	116.5	152.7	168.7	164.7	112.5	100.4
87.5°	24.1	24.1	32.1	32.1	36.2	40.2	60.3	72.3	80.3	56.2	52.2
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: P478923
 CATALOG NUMBER: IFLD-L-SA7B-735-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5	4101.5
2.5°	4165.8	4105.5	4109.6	4125.6	4073.4	4093.5	4153.7	4109.6	4097.5	4073.4	4061.3
5°	4145.7	4210.0	4185.9	4193.9	4181.9	4125.6	4117.6	4153.7	4173.8	4137.7	4210.0
7.5°	4286.3	4258.2	4226.1	4238.1	4210.0	4258.2	4290.3	4218.0	4254.2	4234.1	4193.9
10°	4366.7	4314.4	4338.5	4330.5	4310.4	4358.6	4326.5	4318.4	4286.3	4242.1	4306.4
12.5°	4394.8	4455.0	4495.2	4426.9	4439.0	4414.9	4394.8	4394.8	4358.6	4346.6	4358.6
15°	4519.3	4571.5	4555.5	4607.7	4539.4	4563.5	4587.6	4527.3	4559.5	4471.1	4539.4
17.5°	4748.3	4704.1	4760.3	4692.0	4716.1	4764.4	4688.0	4688.0	4712.1	4663.9	4603.7
20°	4892.9	4872.8	4852.7	4856.7	4816.6	4860.8	4836.7	4824.6	4788.5	4804.5	4836.7
22.5°	5029.5	5001.4	5009.4	5021.4	5049.6	5029.5	5017.4	5029.5	4941.1	5021.4	4909.0
25°	5198.2	5274.5	5250.4	5302.7	5222.3	5274.5	5270.5	5194.2	5242.4	5210.3	5186.2
27.5°	5479.4	5439.2	5475.4	5411.1	5467.4	5471.4	5423.2	5551.7	5495.5	5487.4	5471.4
30°	5840.9	5812.8	5788.7	5752.6	5796.8	5760.6	5800.8	5812.8	5760.6	5720.4	5644.1
32.5°	6045.8	6122.2	6150.3	6061.9	6065.9	6086.0	6049.8	6013.7	6045.8	6057.9	6045.8
35°	6335.1	6407.4	6423.4	6355.1	6319.0	6419.4	6347.1	6467.6	6363.2	6367.2	6258.7
37.5°	6672.5	6692.6	6829.2	6752.8	6720.7	6672.5	6805.1	6789.0	6813.1	6620.3	6716.7
40°	7054.1	7126.4	7202.8	7009.9	7005.9	7050.1	7042.1	7134.5	7090.3	7062.2	6993.9
42.5°	7471.9	7624.6	7636.6	7508.1	7427.7	7419.7	7459.9	7664.7	7668.8	7484.0	7403.6
45°	8026.3	8195.0	8150.8	7901.8	7813.4	7801.3	7998.2	8086.5	8162.9	8090.6	8022.3
47.5°	8717.2	8829.7	8797.6	8568.6	8283.4	8363.7	8556.5	8833.7	8753.4	8657.0	8576.6
50°	9456.4	9589.0	9520.7	9291.7	9018.5	9018.5	9255.5	9609.0	9584.9	9396.1	9323.8
52.5°	10275.9	10468.7	10625.4	10300.0	10071.0	10107.2	10480.8	10609.3	10549.1	10416.5	10356.2
55°	10886.5	11256.1	11577.5	11593.5	11605.6	11601.6	11698.0	11826.5	11396.7	11183.8	10966.8
57.5°	10737.9	11436.9	12537.6	13284.7	13505.7	13622.2	13590.0	12995.5	11979.2	11280.2	11352.5
60°	9677.3	10818.2	12593.8	14992.0	16598.9	16438.2	15851.7	13501.7	11657.8	10476.8	10328.1
62.5°	7721.0	9094.8	11649.8	15474.1	19901.0	19852.8	16783.7	12332.7	9713.5	8219.1	8126.7
64°	5816.8	7263.0	10392.4	15349.6	21057.9	21106.2	16546.7	10894.5	7600.5	5816.8	5676.2
65°	4451.0	5792.7	9159.1	15092.5	20808.9	20837.0	15887.9	9408.2	5776.7	4129.6	3977.0
67.5°	1771.6	2466.5	4969.2	11444.9	17868.3	17792.0	11336.4	4551.4	2209.4	1438.1	1410.0
70°	755.2	940.0	1743.4	5423.2	11963.1	11742.2	4880.8	1478.3	819.5	686.9	682.9
72.5°	518.2	574.5	747.2	1675.2	4973.2	4856.7	1389.9	686.9	558.4	514.2	514.2
75°	417.8	458.0	542.3	703.0	1317.6	1269.4	654.8	506.2	445.9	413.8	409.8
77.5°	325.4	365.6	425.8	486.1	602.6	598.6	437.9	381.6	345.5	321.4	313.3
80°	257.1	297.3	337.4	345.5	393.7	385.6	297.3	301.3	281.2	233.0	229.0
82.5°	176.8	241.0	269.1	245.0	233.0	233.0	212.9	212.9	196.8	144.6	132.6
85°	108.5	160.7	168.7	144.6	108.5	108.5	116.5	112.5	104.4	76.3	72.3
87.5°	56.2	76.3	68.3	56.2	36.2	36.2	32.1	24.1	24.1	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)