

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: P479314

Luminaire Tested: **IFLD-L-SA7C-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479314
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

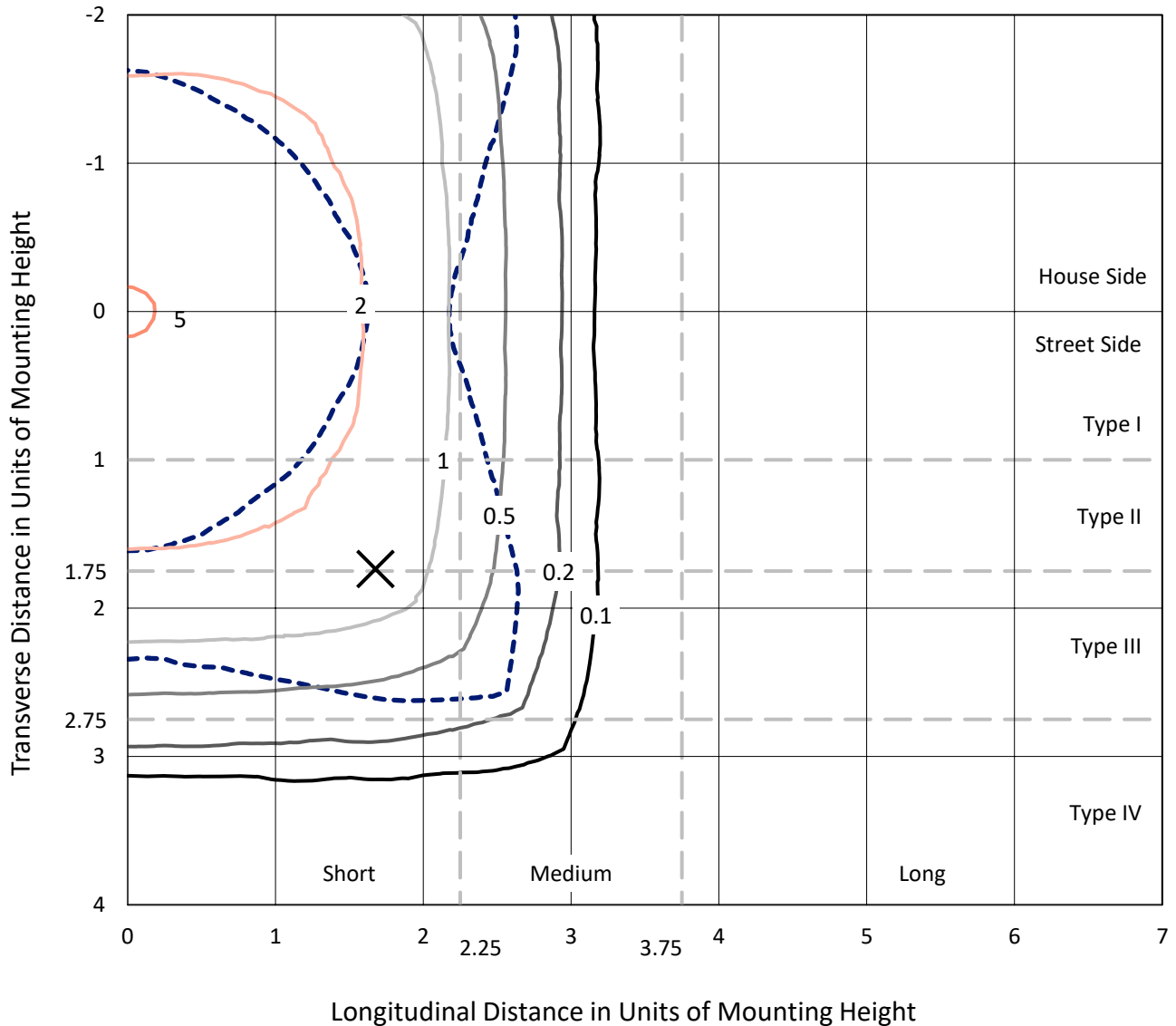
Lumens per Lamp: N/A
Luminaire Lumens: 44134.9 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

REPORT NUMBER: P479314
 CATALOG NUMBER: IFLD-L-SA7C-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

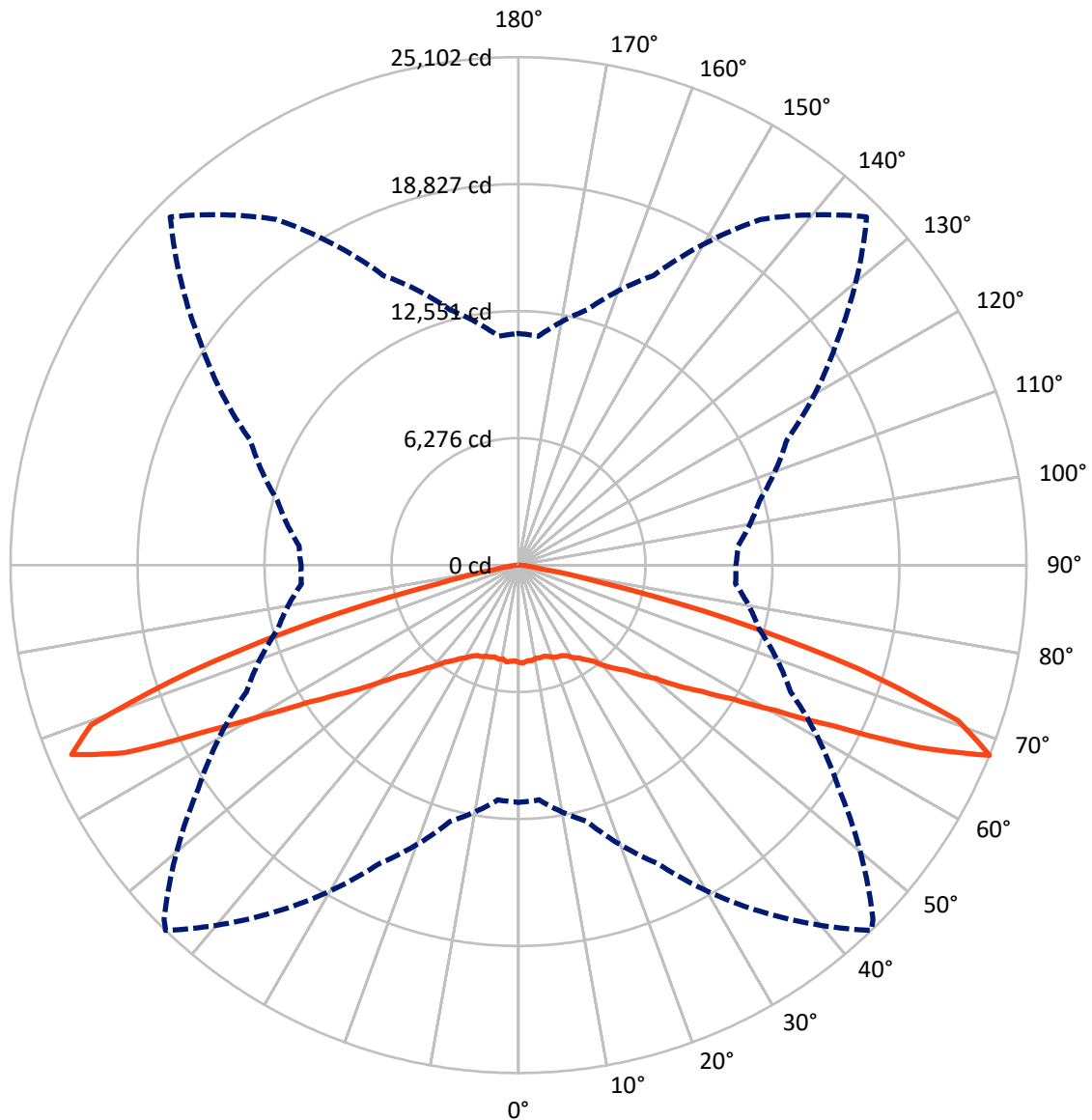
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P479314
CATALOG NUMBER: IFLD-L-SA7C-735-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479314

CATALOG NUMBER: IFLD-L-SA7C-735-U-5MQ

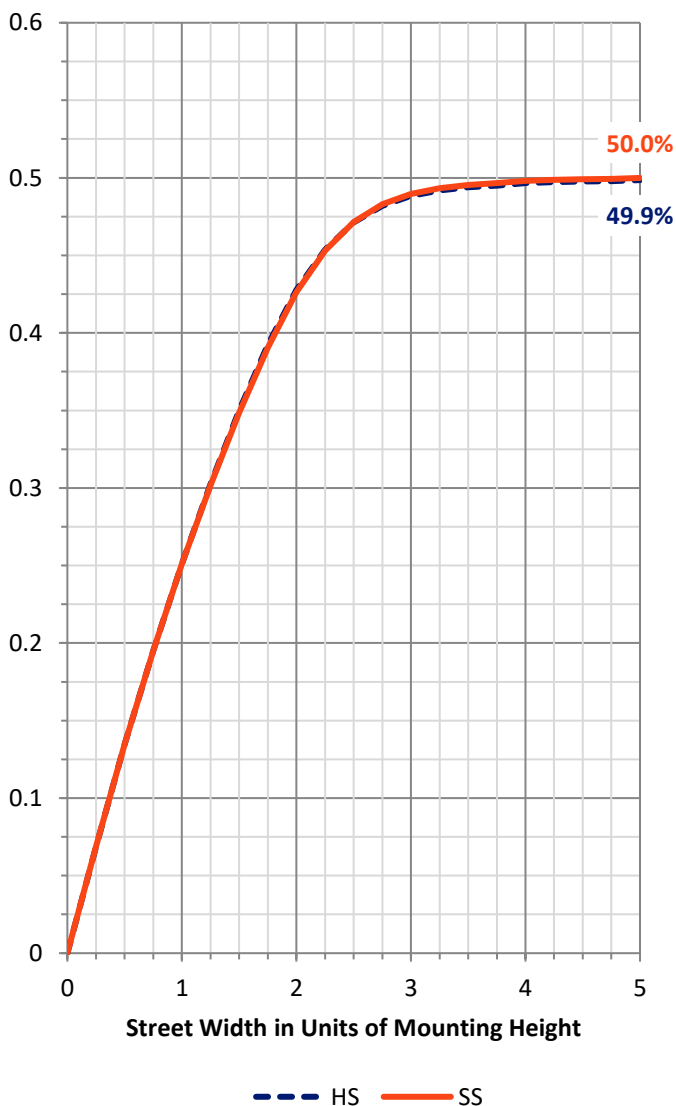
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22010.9	0.0	22010.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	22124.0	0.0	22124.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	44134.9	0.0	44134.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.2	1.0
10°-20°	1332.8	3.0
20°-30°	2266.5	5.1
30°-40°	3593.6	8.1
40°-50°	5859.7	13.3
50°-60°	10007.6	22.7
60°-70°	15221.5	34.5
70°-80°	5130.6	11.6
80°-90°	266.4	0.6
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°	44134.9	100.0
0°-180°	44134.9	100.0

Coefficient of Utilization



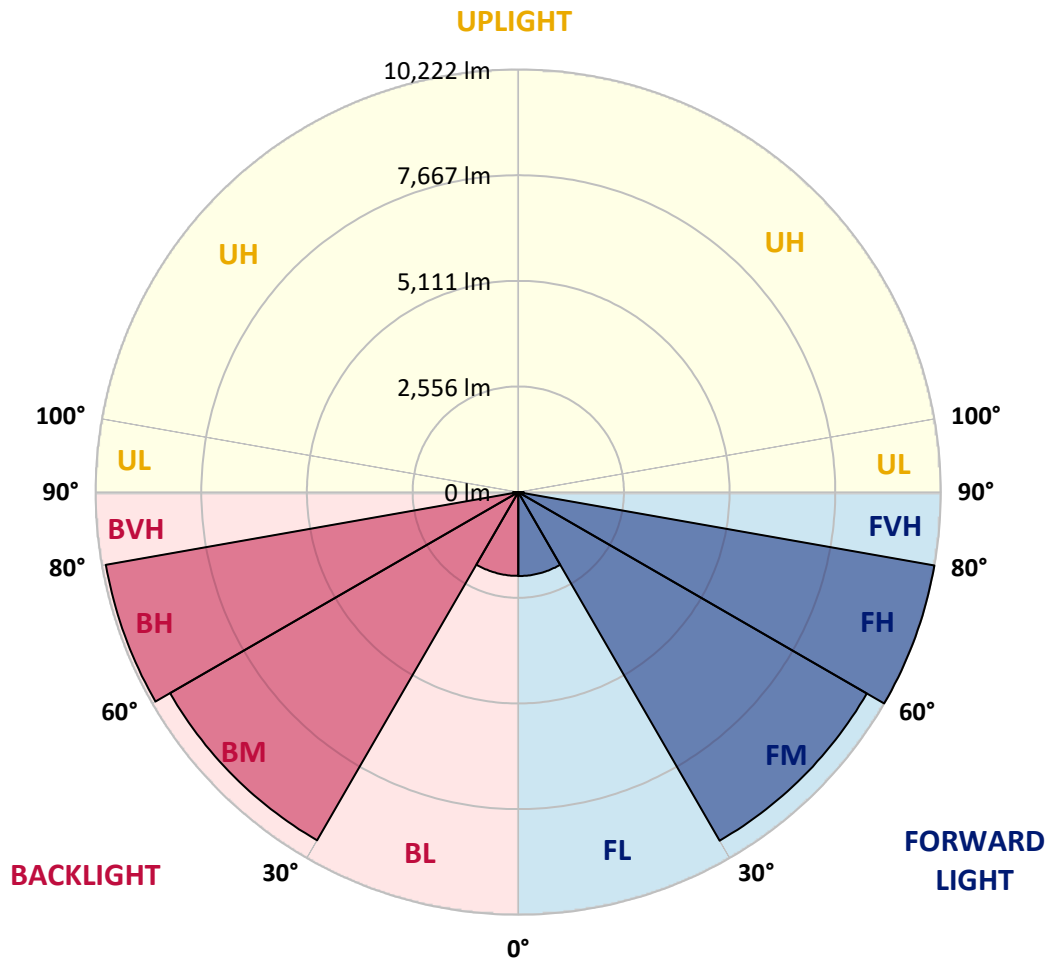
REPORT NUMBER: P479314
 CATALOG NUMBER: IFLD-L-SA7C-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.8	4.6			
FM (30°-60°)	9735.7	22.1			
FH (60°-80°)	10222.1	23.2			G4/12000
FVH (80°-90°)	136.3	0.3			G2/225
BL (0°-30°)	2025.7	4.6	B3/2500		
BM (30°-60°)	9725.2	22.0	B5		
BH (60°-80°)	10129.9	23.0	B5		G4/12000
BVH (80°-90°)	130.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P479314
 CATALOG NUMBER: IFLD-L-SA7C-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0
2.5°	4710.2	4765.6	4805.9	4800.8	4815.9	4831.1	4810.9	4841.1	4821.0	4856.2	4876.4
5°	4800.8	4785.7	4790.8	4760.5	4831.1	4750.5	4750.5	4790.8	4841.1	4780.7	4815.9
7.5°	4745.4	4735.3	4710.2	4755.5	4770.6	4770.6	4810.9	4735.3	4821.0	4841.1	4846.2
10°	4685.0	4629.5	4705.1	4750.5	4760.5	4679.9	4715.2	4735.3	4710.2	4735.3	4750.5
12.5°	4634.6	4664.8	4664.8	4664.8	4649.7	4705.1	4740.4	4735.3	4685.0	4730.3	4649.7
15°	4629.5	4614.4	4659.8	4700.1	4674.9	4685.0	4700.1	4745.4	4649.7	4669.8	4669.8
17.5°	4624.5	4644.7	4659.8	4654.7	4740.4	4740.4	4725.3	4695.0	4770.6	4730.3	4674.9
20°	4644.7	4629.5	4669.8	4685.0	4745.4	4866.3	4821.0	4795.8	4755.5	4705.1	4705.1
22.5°	4669.8	4659.8	4715.2	4780.7	4896.5	4926.8	4921.7	4891.5	4821.0	4760.5	4750.5
25°	4760.5	4669.8	4730.3	4856.2	4896.5	4957.0	4997.3	4957.0	4861.3	4876.4	4785.7
27.5°	4896.5	4881.4	4962.0	5047.7	5012.4	5067.8	5032.6	5062.8	5067.8	4992.3	4901.6
30°	5057.7	5012.4	5062.8	5229.0	5244.1	5304.6	5244.1	5163.5	5188.7	5123.2	5077.9
32.5°	5289.5	5274.4	5370.1	5480.9	5501.1	5470.8	5440.6	5485.9	5380.2	5329.8	5249.2
35°	5440.6	5506.1	5622.0	5707.6	5773.1	5742.9	5758.0	5712.6	5737.8	5632.0	5596.8
37.5°	5888.9	5863.8	5888.9	6035.0	6050.2	6035.0	6050.2	6100.5	6065.3	5974.6	5883.9
40°	6312.1	6271.8	6332.3	6498.5	6488.4	6538.8	6438.0	6493.5	6493.5	6322.2	6286.9
42.5°	6629.5	6765.5	6836.0	6972.0	7022.4	6977.1	6956.9	6967.0	7077.8	6876.3	6800.8
45°	7284.4	7279.3	7490.9	7566.5	7425.4	7415.3	7375.0	7495.9	7571.5	7455.6	7425.4
47.5°	7994.7	8029.9	8150.8	8181.1	8266.7	8110.5	8110.5	8125.6	8392.6	8120.6	7979.5
50°	8634.4	8679.8	8921.6	9158.3	8997.1	8830.9	8896.4	8977.0	9123.1	8866.2	8745.3
52.5°	9410.2	9657.1	9818.3	9944.2	10060.1	9944.2	9793.1	9883.8	10170.9	9828.3	9677.2
55°	10528.6	10725.0	10876.2	11107.9	11203.6	11047.4	11032.3	11022.3	11183.5	10820.8	10614.2
57.5°	11777.9	11697.3	11939.1	12296.8	12644.4	12493.2	12447.9	12458.0	12498.3	11984.4	11828.3
60°	13329.5	13420.2	13707.3	14019.6	14387.4	14598.9	14301.7	14130.5	14165.7	13465.5	13223.7
62.5°	14216.1	14417.6	15067.4	16140.5	16881.0	17540.9	17586.2	16472.9	15727.4	14367.2	13339.5
65°	13787.9	13757.7	14981.8	16966.6	19772.6	21691.9	21404.7	18704.6	16100.2	13939.0	12558.7
67.5°	11727.5	11646.9	13128.0	16276.5	20911.1	25102.3	24774.9	19334.3	14840.8	12332.0	10770.4
70°	7556.4	7536.2	9143.2	12407.6	18669.3	23047.0	23167.9	17561.1	12080.2	9032.4	7485.9
72.5°	2745.5	2911.7	3843.7	6669.8	12679.6	17631.6	17707.1	13002.0	6946.8	4176.2	3078.0
75°	1012.6	1042.8	1214.1	2166.2	5778.1	10825.8	11107.9	6307.1	2468.4	1360.2	1108.3
77.5°	584.4	589.4	649.8	806.0	1712.8	4226.5	4397.8	1914.3	957.1	725.4	670.0
80°	398.0	392.9	458.4	523.9	685.1	1198.9	1274.5	801.0	604.5	503.8	423.2
82.5°	231.7	246.8	337.5	372.8	418.1	528.9	539.0	498.7	453.4	372.8	277.1
85°	141.1	115.9	186.4	206.5	241.8	236.8	236.8	272.0	292.2	262.0	156.2
87.5°	35.3	35.3	45.3	50.4	65.5	50.4	55.4	105.8	141.1	131.0	80.6
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: P479314
 CATALOG NUMBER: IFLD-L-SA7C-735-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0	4821.0
2.5°	4831.1	4815.9	4826.0	4881.4	4846.2	4740.4	4765.6	4821.0	4775.6	4750.5	4745.4
5°	4810.9	4841.1	4805.9	4815.9	4851.2	4765.6	4780.7	4851.2	4821.0	4831.1	4775.6
7.5°	4815.9	4831.1	4800.8	4755.5	4755.5	4826.0	4785.7	4795.8	4750.5	4826.0	4725.3
10°	4785.7	4745.4	4710.2	4735.3	4725.3	4705.1	4690.0	4720.2	4674.9	4740.4	4669.8
12.5°	4695.0	4705.1	4695.0	4685.0	4705.1	4755.5	4674.9	4685.0	4614.4	4624.5	4659.8
15°	4659.8	4690.0	4679.9	4735.3	4760.5	4685.0	4745.4	4685.0	4629.5	4599.3	4654.7
17.5°	4674.9	4720.2	4705.1	4745.4	4700.1	4755.5	4765.6	4740.4	4674.9	4649.7	4674.9
20°	4690.0	4674.9	4695.0	4765.6	4831.1	4775.6	4775.6	4760.5	4700.1	4664.8	4664.8
22.5°	4725.3	4700.1	4730.3	4785.7	4805.9	4891.5	4815.9	4780.7	4679.9	4589.2	4674.9
25°	4795.8	4810.9	4831.1	4810.9	4921.7	4911.7	4901.6	4876.4	4720.2	4725.3	4710.2
27.5°	4931.8	4846.2	4871.4	4992.3	5007.4	5047.7	4997.3	5042.6	4876.4	4881.4	4780.7
30°	5098.0	5007.4	5088.0	5193.8	5188.7	5264.3	5239.1	5249.2	5133.3	5067.8	4931.8
32.5°	5279.4	5269.3	5319.7	5385.2	5410.4	5450.7	5445.6	5445.6	5375.1	5203.8	5229.0
35°	5480.9	5551.4	5611.9	5682.4	5692.5	5742.9	5672.3	5682.4	5611.9	5485.9	5526.2
37.5°	5878.9	5873.8	5939.3	6025.0	6035.0	5994.7	6050.2	6025.0	5929.2	5843.6	5778.1
40°	6342.3	6241.6	6302.0	6503.5	6518.6	6448.1	6443.1	6438.0	6367.5	6181.1	6140.8
42.5°	6745.3	6876.3	6866.2	6931.7	6886.4	6851.1	6977.1	6906.5	6851.1	6654.7	6619.4
45°	7264.2	7304.5	7435.5	7647.1	7430.5	7430.5	7516.1	7460.7	7430.5	7284.4	7148.3
47.5°	7909.0	7944.3	8206.2	8221.4	8080.3	7984.6	8251.6	8261.7	8135.7	8024.9	7858.6
50°	8664.7	8679.8	8916.5	9158.3	9002.2	8820.8	9092.9	9198.6	8916.5	8765.4	8558.9
52.5°	9495.9	9450.5	9647.0	10100.4	9949.2	9893.8	10186.0	10211.2	9828.3	9591.6	9647.0
55°	10453.0	10392.6	10926.5	11233.8	11138.1	11037.4	11168.3	11228.8	10921.5	10533.6	10669.6
57.5°	11692.3	11722.5	11989.5	12291.7	12447.9	12473.1	12533.5	12473.1	12160.8	11767.8	11641.9
60°	12931.5	13022.2	13541.1	14110.3	14160.7	14604.0	14523.4	14221.1	13777.8	13218.6	13243.8
62.5°	13389.9	13314.4	14150.6	15541.0	16724.8	17535.9	17178.2	16105.2	15077.5	14059.9	14135.5
65°	12468.0	12654.4	13792.9	15969.2	18538.3	21747.3	19843.1	16875.9	14800.5	13485.6	13339.5
67.5°	10745.2	10886.2	12332.0	14629.2	19188.2	24336.6	20850.6	15787.8	13052.4	11349.7	11440.4
70°	7485.9	7556.4	8972.0	11984.4	17399.8	22966.4	18810.4	12125.5	9012.3	7183.6	7284.4
72.5°	3012.5	3183.8	4115.7	7218.9	12845.9	17450.2	12664.5	6362.5	3737.9	2780.8	2523.8
75°	1113.3	1118.3	1314.8	2483.5	6100.5	10966.8	5712.6	2045.3	1193.9	977.3	932.0
77.5°	644.8	639.8	685.1	896.7	1768.2	4282.0	1622.1	801.0	649.8	584.4	559.2
80°	403.0	398.0	468.5	594.4	775.8	1173.8	685.1	498.7	438.3	377.8	377.8
82.5°	256.9	262.0	367.7	438.3	473.5	518.9	398.0	352.6	327.4	216.6	211.6
85°	166.2	151.1	256.9	292.2	262.0	231.7	221.7	186.4	171.3	105.8	115.9
87.5°	75.6	80.6	131.0	146.1	95.7	55.4	55.4	40.3	40.3	25.2	25.2
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)