

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: P478921

Luminaire Tested: **IFLD-M-SA4E-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

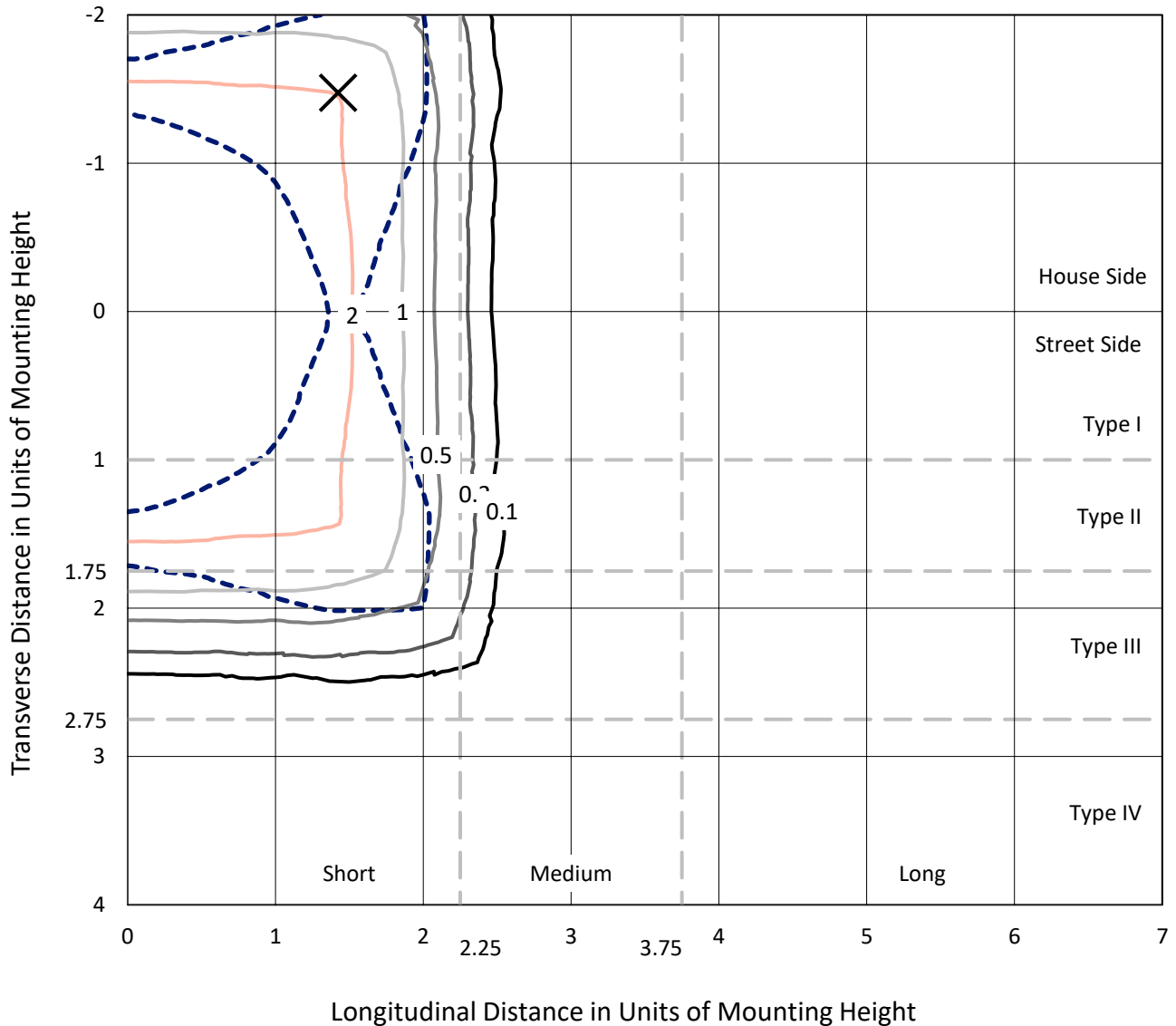
Lumens per Lamp: N/A
Luminaire Lumens: 35614.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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: P478921
 CATALOG NUMBER: IFLD-M-SA4E-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

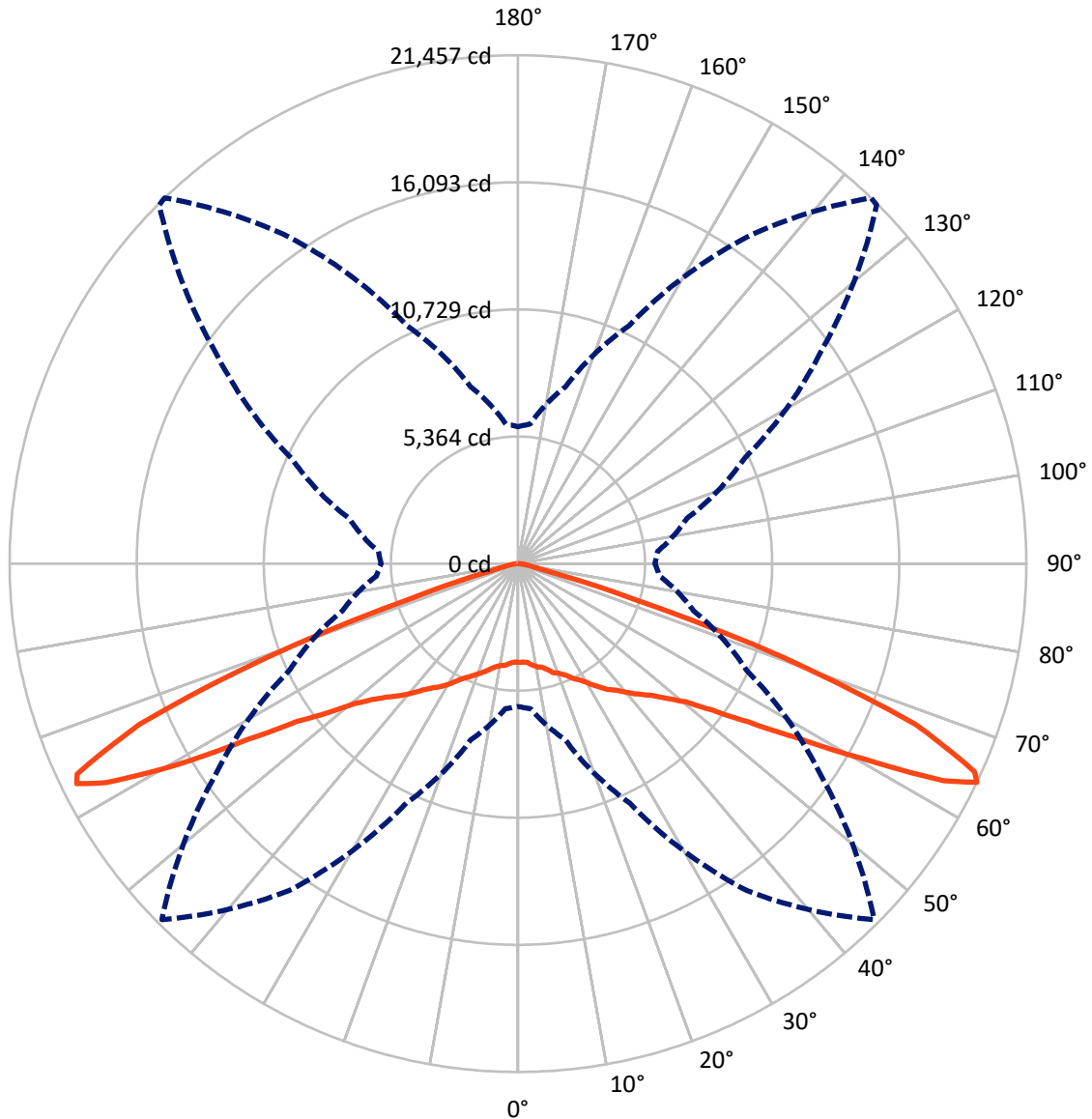
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P478921
CATALOG NUMBER: IFLD-M-SA4E-735-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478921

CATALOG NUMBER: IFLD-M-SA4E-735-U-5NQ

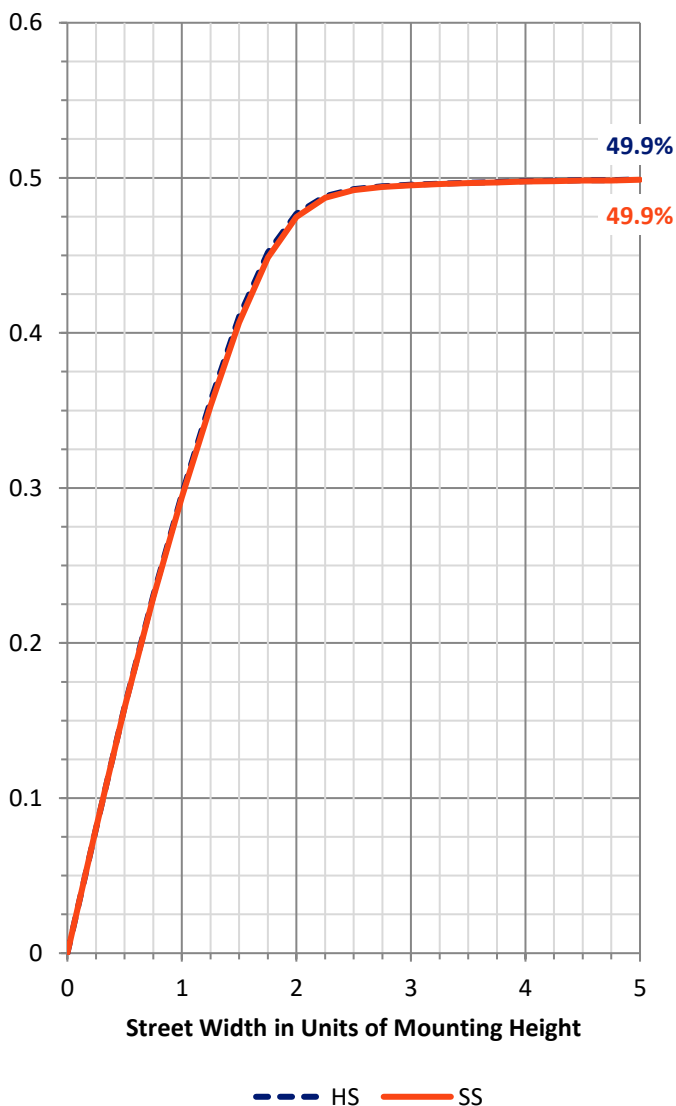
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17824.4	0.0	17824.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17790.4	0.0	17790.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35614.8	0.0	35614.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	1.2
10°-20°	1320.5	3.7
20°-30°	2481.8	7.0
30°-40°	4092.8	11.5
40°-50°	6400.9	18.0
50°-60°	10342.3	29.0
60°-70°	9312.6	26.1
70°-80°	1103.1	3.1
80°-90°	151.0	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°	35614.8	100.0
0°-180°	35614.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478921

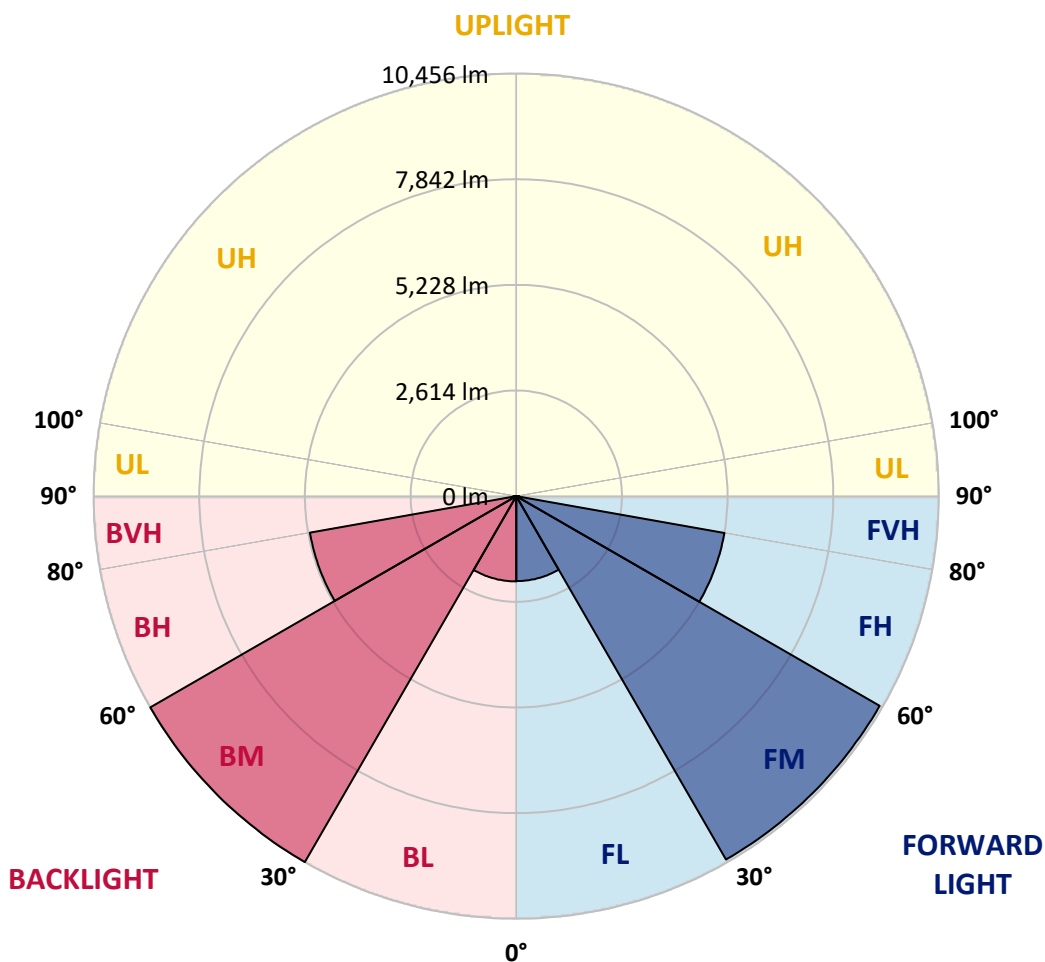
CATALOG NUMBER: IFLD-M-SA4E-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.9	5.9			
FM (30°-60°)	10380.6	29.1			
FH (60°-80°)	5230.4	14.7			G3/7500
FVH (80°-90°)	77.5	0.2			G1/100
BL (0°-30°)	2110.0	5.9	B3/2500		
BM (30°-60°)	10455.5	29.4	B5		
BH (60°-80°)	5185.3	14.6	B5		G3/7500
BVH (80°-90°)	73.5	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





REPORT NUMBER: P478921
 CATALOG NUMBER: IFLD-M-SA4E-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8
2.5°	4120.8	4128.9	4202.4	4173.8	4198.3	4153.4	4186.1	4255.5	4173.8	4235.1	4255.5
5°	4165.7	4177.9	4177.9	4206.5	4222.9	4214.7	4235.1	4206.5	4284.1	4251.4	4300.4
7.5°	4329.0	4308.6	4275.9	4300.4	4304.5	4325.0	4345.4	4382.1	4369.9	4341.3	4390.3
10°	4357.6	4341.3	4390.3	4394.4	4374.0	4357.6	4378.0	4378.0	4414.8	4423.0	4423.0
12.5°	4406.6	4423.0	4418.9	4451.6	4455.6	4443.4	4476.1	4537.3	4521.0	4533.2	4504.6
15°	4594.5	4574.1	4570.0	4602.7	4655.8	4578.2	4635.3	4631.3	4614.9	4639.4	4574.1
17.5°	4757.9	4692.5	4721.1	4774.2	4753.8	4770.1	4843.6	4778.3	4794.6	4766.0	4745.6
20°	4900.8	4847.7	4851.8	4872.2	4872.2	4921.2	4949.8	4925.3	4909.0	4904.9	4913.0
22.5°	5060.1	4998.8	5002.9	5088.7	5117.2	5100.9	5080.5	5121.3	5129.5	5096.8	5133.6
25°	5178.5	5243.9	5264.3	5305.1	5243.9	5288.8	5272.4	5350.0	5399.0	5333.7	5378.6
27.5°	5488.9	5460.3	5513.4	5509.3	5558.3	5513.4	5542.0	5566.5	5586.9	5591.0	5570.6
30°	5766.6	5778.9	5725.8	5868.7	5754.4	5827.9	5876.9	5889.1	5913.6	5913.6	5852.4
32.5°	6060.7	6036.1	6121.9	6089.2	6068.8	6126.0	6072.9	6240.3	6142.3	6199.5	6130.1
35°	6391.5	6391.5	6424.1	6514.0	6391.5	6354.7	6452.7	6522.1	6522.1	6420.0	6444.5
37.5°	6763.1	6730.4	6771.3	6885.6	6791.7	6669.2	6848.9	6877.4	6857.0	6828.4	6779.4
40°	7024.5	7016.3	7098.0	7249.1	7114.3	7089.8	7122.5	7200.1	7224.6	7253.2	7187.8
42.5°	7465.5	7502.3	7739.2	7702.4	7592.1	7506.4	7498.2	7788.2	7718.8	7645.2	7608.5
45°	8119.0	8086.3	8208.8	8212.9	8070.0	7882.1	7923.0	8188.4	8306.8	8143.5	8204.7
47.5°	8637.7	8654.0	8739.8	8915.4	8584.6	8388.5	8539.6	8968.5	8931.7	8870.4	8927.6
50°	9331.9	9405.4	9675.0	9613.7	9319.7	9078.7	9409.5	9813.8	9858.8	9634.1	9593.3
52.5°	10291.7	10406.0	10553.0	10602.1	10320.3	10234.5	10254.9	10757.2	10647.0	10430.5	10291.7
55°	11133.0	11186.1	11455.6	11859.9	11839.5	11427.0	11663.9	11851.8	11402.5	10957.4	10994.1
57.5°	11492.4	11516.9	12268.3	13077.0	13558.9	13652.8	13383.3	12750.2	11680.2	10822.6	10769.5
60°	10598.0	10830.8	11737.4	13563.0	15764.2	16850.6	15057.7	12852.3	11030.9	9989.5	9911.9
62.5°	8470.2	8482.5	9830.2	12599.1	17136.4	19983.0	15698.9	11892.6	9299.3	8119.0	7808.6
64°	6032.1	6146.4	7694.2	11153.4	16850.6	21257.2	15621.3	10638.8	7665.7	5991.2	5774.8
65°	4329.0	4488.3	5983.1	9683.2	16180.8	21106.1	15388.5	9560.6	6199.5	4574.1	4353.5
67.5°	1592.8	1658.1	2348.3	4843.6	11619.0	17985.9	12194.8	5256.1	2724.0	1939.9	1743.9
70°	739.2	743.3	869.9	1600.9	5080.5	12027.4	5819.7	1972.6	1025.1	812.7	755.5
72.5°	543.2	555.4	608.5	739.2	1494.7	5092.7	1911.3	808.6	600.3	530.9	518.7
75°	441.1	449.2	465.6	535.0	690.2	1364.1	776.0	559.5	477.8	428.8	412.5
77.5°	339.0	339.0	375.7	408.4	457.4	637.1	514.6	445.2	388.0	339.0	326.7
80°	245.0	249.1	294.0	318.6	310.4	420.7	371.6	367.6	318.6	265.5	245.0
82.5°	142.9	155.2	212.4	228.7	220.5	249.1	269.5	285.9	249.1	183.8	167.4
85°	81.7	85.8	122.5	126.6	126.6	118.4	155.2	171.5	167.4	114.4	102.1
87.5°	24.5	24.5	32.7	32.7	36.8	40.8	61.3	73.5	81.7	57.2	53.1
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: P478921
 CATALOG NUMBER: IFLD-M-SA4E-735-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8
2.5°	4235.1	4173.8	4177.9	4194.3	4141.2	4161.6	4222.9	4177.9	4165.7	4141.2	4128.9
5°	4214.7	4280.0	4255.5	4263.7	4251.4	4194.3	4186.1	4222.9	4243.3	4206.5	4280.0
7.5°	4357.6	4329.0	4296.4	4308.6	4280.0	4329.0	4361.7	4288.2	4325.0	4304.5	4263.7
10°	4439.3	4386.2	4410.7	4402.5	4382.1	4431.1	4398.5	4390.3	4357.6	4312.7	4378.0
12.5°	4467.9	4529.2	4570.0	4500.6	4512.8	4488.3	4467.9	4467.9	4431.1	4418.9	4431.1
15°	4594.5	4647.6	4631.3	4684.3	4614.9	4639.4	4663.9	4602.7	4635.3	4545.5	4614.9
17.5°	4827.3	4782.4	4839.5	4770.1	4794.6	4843.6	4766.0	4766.0	4790.5	4741.5	4680.3
20°	4974.3	4953.9	4933.5	4937.6	4896.7	4941.6	4917.1	4904.9	4868.1	4884.5	4917.1
22.5°	5113.2	5084.6	5092.7	5105.0	5133.6	5113.2	5100.9	5113.2	5023.3	5105.0	4990.6
25°	5284.7	5362.3	5337.8	5390.9	5309.2	5362.3	5358.2	5280.6	5329.6	5296.9	5272.4
27.5°	5570.6	5529.7	5566.5	5501.1	5558.3	5562.4	5513.4	5644.1	5586.9	5578.7	5562.4
30°	5938.1	5909.5	5885.0	5848.3	5893.2	5856.5	5897.3	5909.5	5856.5	5815.6	5738.0
32.5°	6146.4	6224.0	6252.6	6162.8	6166.8	6187.3	6150.5	6113.7	6146.4	6158.7	6146.4
35°	6440.5	6514.0	6530.3	6460.9	6424.1	6526.2	6452.7	6575.2	6469.1	6473.1	6362.9
37.5°	6783.5	6803.9	6942.8	6865.2	6832.5	6783.5	6918.3	6902.0	6926.5	6730.4	6828.4
40°	7171.5	7245.0	7322.6	7126.6	7122.5	7167.4	7159.2	7253.2	7208.3	7179.7	7110.2
42.5°	7596.2	7751.4	7763.7	7633.0	7551.3	7543.1	7584.0	7792.3	7796.3	7608.5	7526.8
45°	8159.8	8331.4	8286.4	8033.2	7943.4	7931.1	8131.2	8221.1	8298.7	8225.2	8155.7
47.5°	8862.3	8976.6	8944.0	8711.2	8421.2	8502.9	8698.9	8980.7	8899.0	8801.0	8719.3
50°	9613.7	9748.5	9679.1	9446.3	9168.6	9168.6	9409.5	9768.9	9744.4	9552.5	9479.0
52.5°	10446.9	10642.9	10802.2	10471.4	10238.6	10275.3	10655.1	10785.8	10724.6	10589.8	10528.5
55°	11067.6	11443.4	11770.1	11786.4	11798.7	11794.6	11892.6	12023.3	11586.3	11369.8	11149.3
57.5°	10916.5	11627.1	12746.2	13505.8	13730.4	13848.8	13816.2	13211.7	12178.5	11467.9	11541.4
60°	9838.3	10998.2	12803.3	15241.5	16875.1	16711.7	16115.4	13726.3	11851.8	10651.1	10500.0
62.5°	7849.4	9246.2	11843.6	15731.6	20232.1	20183.1	17062.9	12537.9	9875.1	8355.9	8261.9
64°	5913.6	7383.9	10565.3	15604.9	21408.3	21457.3	16822.0	11075.8	7726.9	5913.6	5770.7
65°	4525.1	5889.1	9311.5	15343.6	21155.1	21183.7	16152.2	9564.7	5872.8	4198.3	4043.2
67.5°	1801.0	2507.6	5051.9	11635.3	18165.6	18088.0	11525.0	4627.2	2246.2	1462.1	1433.5
70°	767.8	955.7	1772.5	5513.4	12162.1	11937.5	4962.1	1502.9	833.1	698.4	694.3
72.5°	526.8	584.0	759.6	1703.0	5056.0	4937.6	1413.1	698.4	567.7	522.8	522.8
75°	424.7	465.6	551.3	714.7	1339.6	1290.5	665.7	514.6	453.3	420.7	416.6
77.5°	330.8	371.6	432.9	494.2	612.6	608.5	445.2	388.0	351.2	326.7	318.6
80°	261.4	302.2	343.1	351.2	400.2	392.1	302.2	306.3	285.9	236.9	232.8
82.5°	179.7	245.0	273.6	249.1	236.9	236.9	216.5	216.5	200.1	147.0	134.8
85°	110.3	163.4	171.5	147.0	110.3	110.3	118.4	114.4	106.2	77.6	73.5
87.5°	57.2	77.6	69.4	57.2	36.8	36.8	32.7	24.5	24.5	20.4	20.4
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)