

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: P479110

Luminaire Tested: **IFLD-S-SA6D-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479110
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

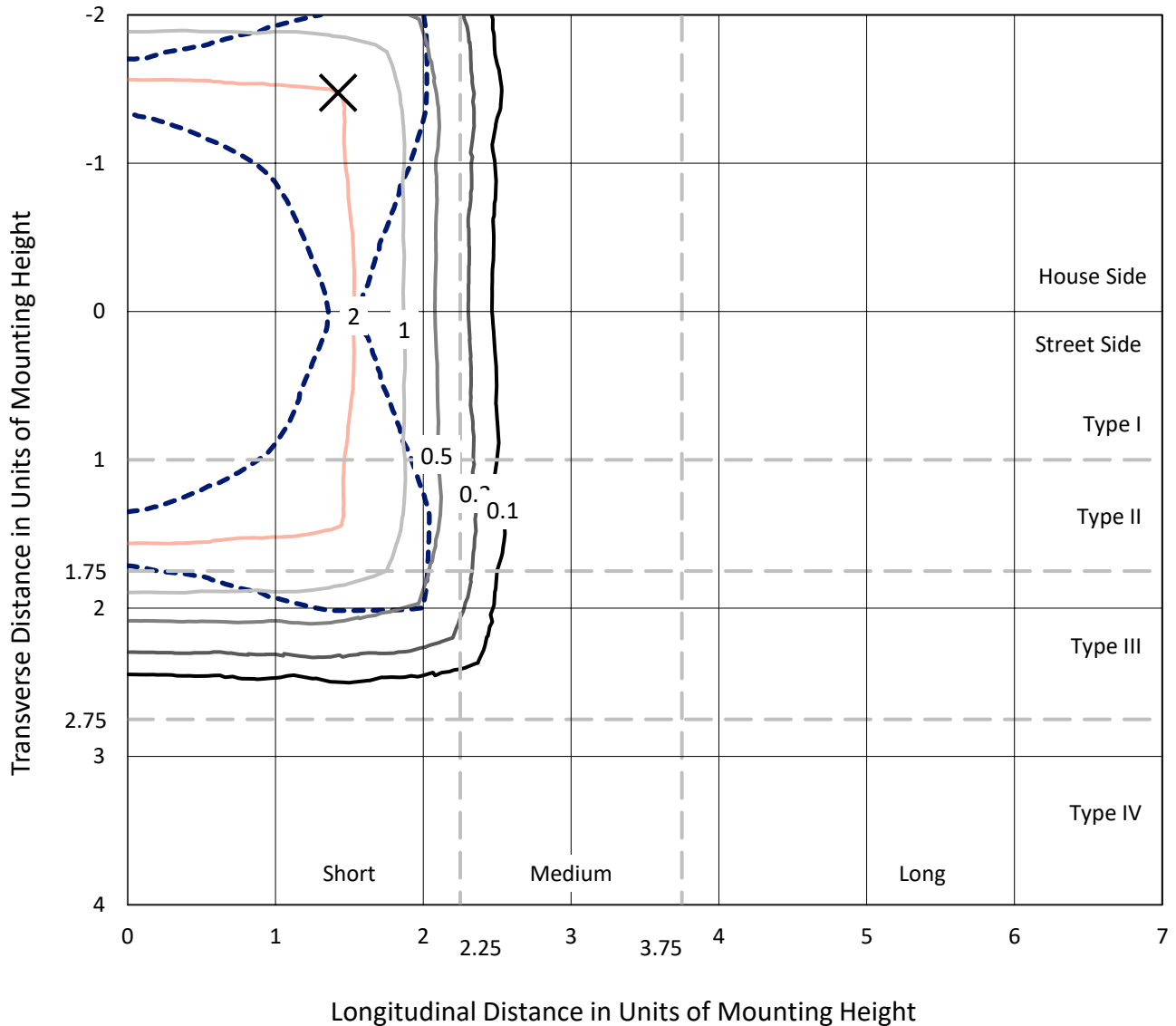
Lumens per Lamp: N/A
Luminaire Lumens: 36235.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 368.2
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: P479110
 CATALOG NUMBER: IFLD-S-SA6D-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

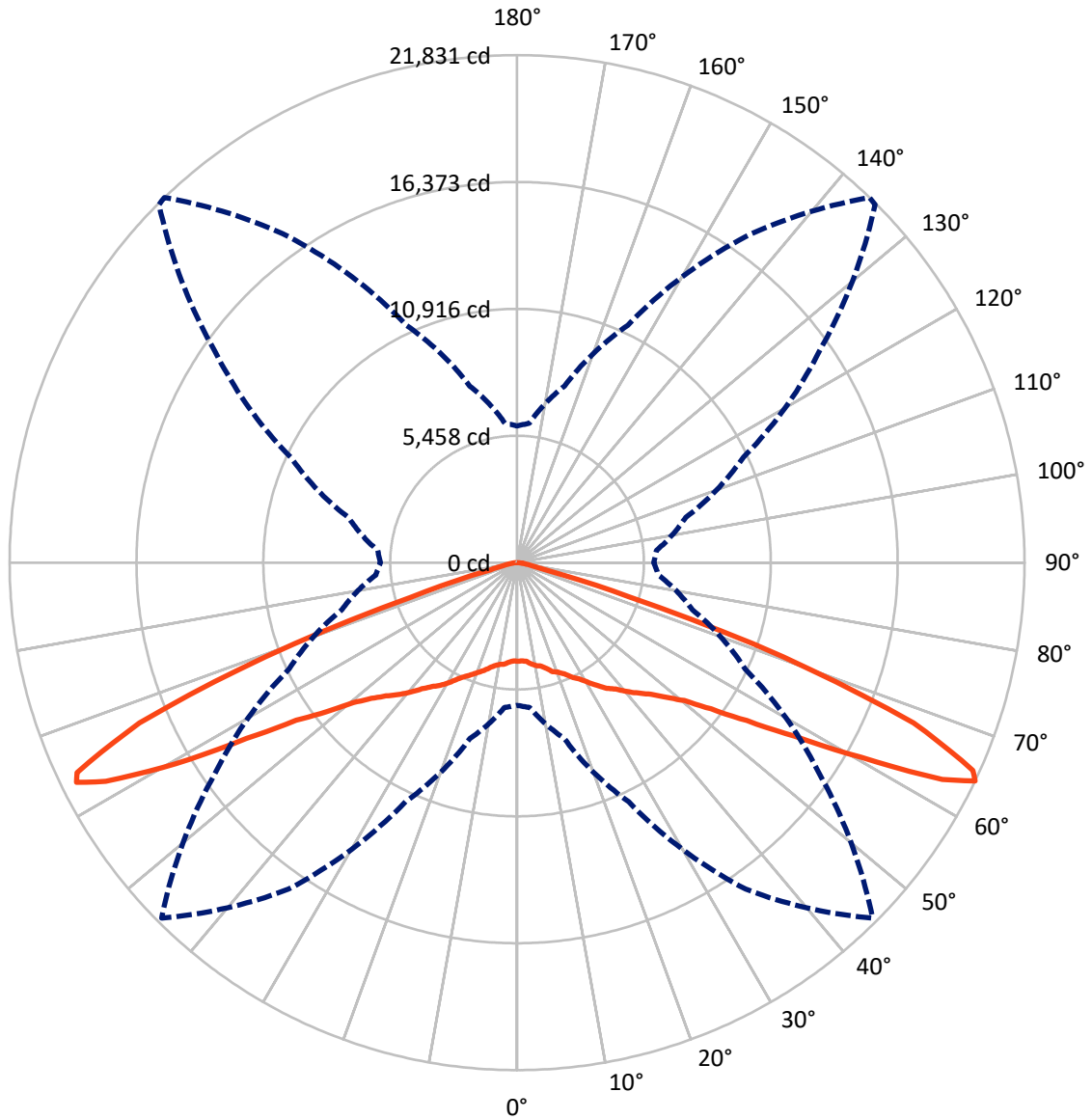
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P479110
CATALOG NUMBER: IFLD-S-SA6D-830-U-5NQ

Luminous Intensity Polar Plot



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

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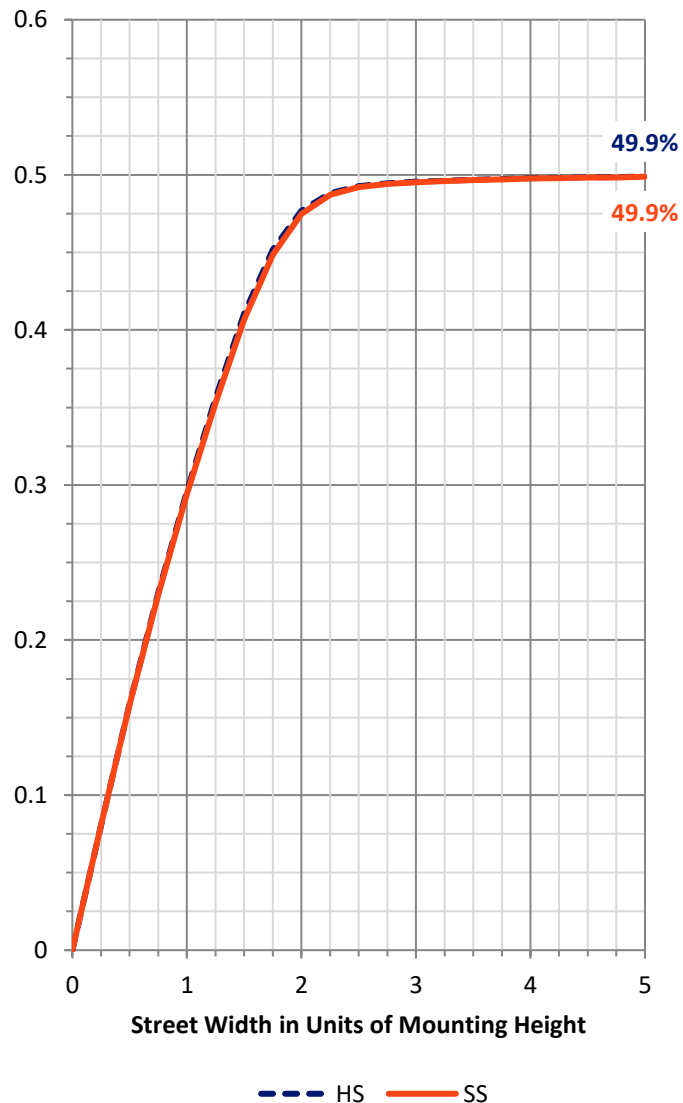
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18134.8	0.0	18134.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18100.3	0.0	18100.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	36235.1	0.0	36235.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.8	1.2
10°-20°	1343.5	3.7
20°-30°	2525.0	7.0
30°-40°	4164.1	11.5
40°-50°	6512.4	18.0
50°-60°	10522.5	29.0
60°-70°	9474.8	26.1
70°-80°	1122.3	3.1
80°-90°	153.6	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°	36235.1	100.0
0°-180°	36235.1	100.0

Coefficient of Utilization



REPORT NUMBER: P479110

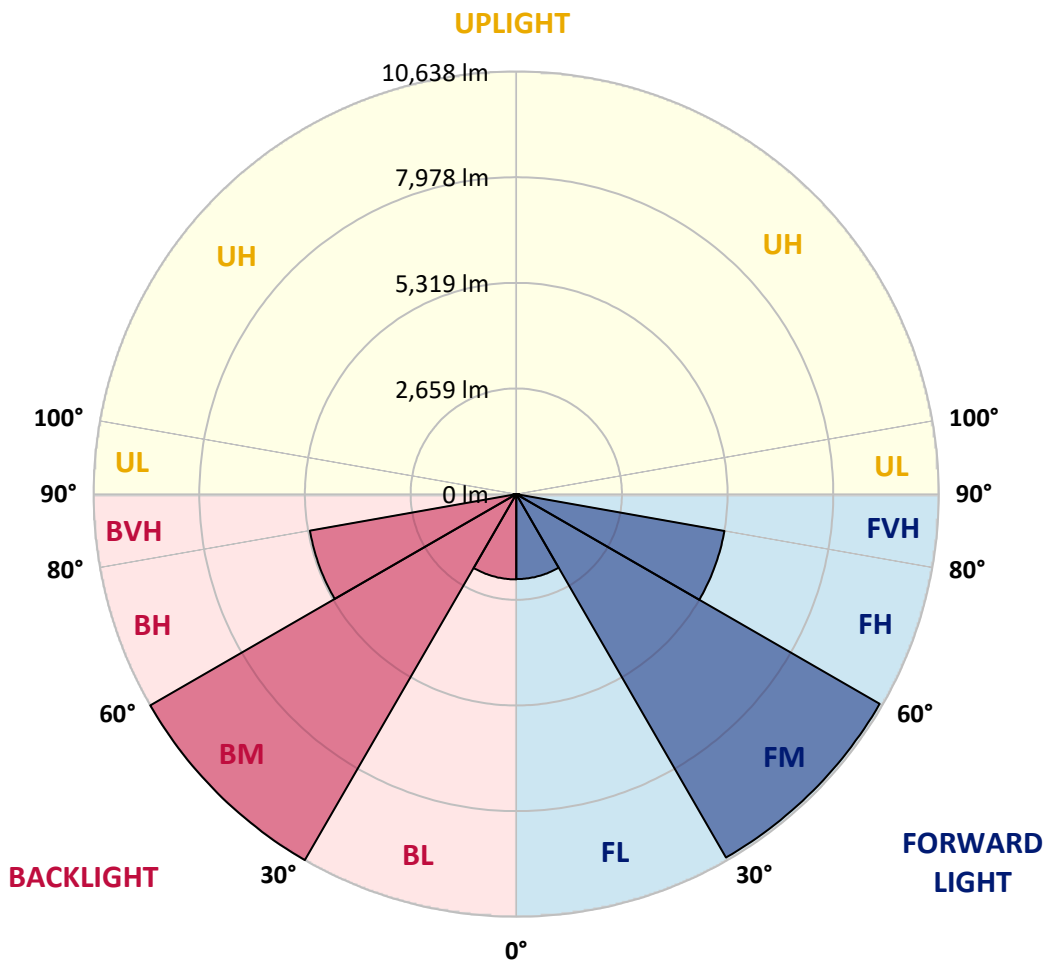
CATALOG NUMBER: IFLD-S-SA6D-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2138.5	5.9			
FM (30°-60°)	10561.4	29.1			
FH (60°-80°)	5321.5	14.7			G3/7500
FVH (80°-90°)	78.8	0.2			G1/100
BL (0°-30°)	2146.8	5.9	B3/2500		
BM (30°-60°)	10637.6	29.4	B5		
BH (60°-80°)	5275.6	14.6	B5		G3/7500
BVH (80°-90°)	74.8	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





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 CATALOG NUMBER: IFLD-S-SA6D-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4
2.5°	4192.5	4200.8	4275.6	4246.5	4271.5	4225.8	4259.0	4329.6	4246.5	4308.9	4329.6
5°	4238.2	4250.7	4250.7	4279.8	4296.4	4288.1	4308.9	4279.8	4358.7	4325.5	4375.4
7.5°	4404.4	4383.7	4350.4	4375.4	4379.5	4400.3	4421.1	4458.5	4446.0	4416.9	4466.8
10°	4433.5	4416.9	4466.8	4470.9	4450.1	4433.5	4454.3	4454.3	4491.7	4500.0	4500.0
12.5°	4483.4	4500.0	4495.9	4529.1	4533.2	4520.8	4554.0	4616.4	4599.7	4612.2	4583.1
15°	4674.5	4653.7	4649.6	4682.8	4736.9	4657.9	4716.1	4711.9	4695.3	4720.2	4653.7
17.5°	4840.7	4774.2	4803.3	4857.4	4836.6	4853.2	4928.0	4861.5	4878.1	4849.0	4828.3
20°	4986.2	4932.1	4936.3	4957.1	4957.1	5006.9	5036.0	5011.1	4994.5	4990.3	4998.6
22.5°	5148.2	5085.9	5090.0	5177.3	5206.4	5189.8	5169.0	5210.5	5218.8	5185.6	5223.0
25°	5268.7	5335.2	5356.0	5397.5	5335.2	5380.9	5364.3	5443.2	5493.1	5426.6	5472.3
27.5°	5584.5	5555.4	5609.4	5605.3	5655.1	5609.4	5638.5	5663.4	5684.2	5688.4	5667.6
30°	5867.0	5879.5	5825.5	5970.9	5854.6	5929.4	5979.2	5991.7	6016.6	6016.6	5954.3
32.5°	6166.2	6141.3	6228.5	6195.3	6174.5	6232.7	6178.7	6349.0	6249.3	6307.5	6236.9
35°	6502.8	6502.8	6536.0	6627.4	6502.8	6465.4	6565.1	6635.7	6635.7	6531.9	6556.8
37.5°	6880.9	6847.7	6889.2	7005.6	6910.0	6785.3	6968.2	6997.2	6976.5	6947.4	6897.5
40°	7146.8	7138.5	7221.6	7375.4	7238.2	7213.3	7246.6	7325.5	7350.4	7379.5	7313.0
42.5°	7595.6	7633.0	7874.0	7836.6	7724.4	7637.1	7628.8	7923.8	7853.2	7778.4	7741.0
45°	8260.4	8227.2	8351.8	8356.0	8210.5	8019.4	8061.0	8331.0	8451.5	8285.3	8347.7
47.5°	8788.1	8804.7	8892.0	9070.7	8734.1	8534.6	8688.4	9124.7	9087.3	9024.9	9083.1
50°	9494.5	9569.3	9843.5	9781.2	9482.0	9236.9	9573.4	9984.8	10030.5	9802.0	9760.4
52.5°	10470.9	10587.3	10736.9	10786.7	10500.0	10412.8	10433.5	10944.6	10832.4	10612.2	10470.9
55°	11326.9	11380.9	11655.1	12066.5	12045.7	11626.1	11867.1	12058.2	11601.1	11148.2	11185.6
57.5°	11692.5	11717.5	12482.0	13304.7	13795.0	13890.6	13616.4	12972.3	11883.7	11011.1	10957.1
60°	10782.6	11019.4	11941.9	13799.2	16038.8	17144.1	15320.0	13076.2	11223.0	10163.5	10084.5
62.5°	8617.7	8630.2	10001.4	12818.6	17434.9	20331.1	15972.3	12099.7	9461.2	8260.4	7944.6
64°	6137.1	6253.5	7828.3	11347.7	17144.1	21627.5	15893.4	10824.1	7799.2	6095.6	5875.4
65°	4404.4	4566.5	6087.3	9851.8	16462.6	21473.7	15656.5	9727.2	6307.5	4653.7	4429.4
67.5°	1620.5	1687.0	2389.2	4928.0	11821.4	18299.2	12407.2	5347.7	2771.5	1973.7	1774.2
70°	752.1	756.2	885.0	1628.8	5169.0	12236.9	5921.1	2006.9	1042.9	826.9	768.7
72.5°	552.6	565.1	619.1	752.1	1520.8	5181.5	1944.6	822.7	610.8	540.2	527.7
75°	448.8	457.1	473.7	544.3	702.2	1387.8	789.5	569.3	486.2	436.3	419.7
77.5°	344.9	344.9	382.3	415.5	465.4	648.2	523.5	452.9	394.7	344.9	332.4
80°	249.3	253.5	299.2	324.1	315.8	428.0	378.1	374.0	324.1	270.1	249.3
82.5°	145.4	157.9	216.1	232.7	224.4	253.5	274.2	290.9	253.5	187.0	170.4
85°	83.1	87.3	124.7	128.8	128.8	120.5	157.9	174.5	170.4	116.3	103.9
87.5°	24.9	24.9	33.2	33.2	37.4	41.6	62.3	74.8	83.1	58.2	54.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4	4242.4
2.5°	4308.9	4246.5	4250.7	4267.3	4213.3	4234.1	4296.4	4250.7	4238.2	4213.3	4200.8
5°	4288.1	4354.6	4329.6	4338.0	4325.5	4267.3	4259.0	4296.4	4317.2	4279.8	4354.6
7.5°	4433.5	4404.4	4371.2	4383.7	4354.6	4404.4	4437.7	4362.9	4400.3	4379.5	4338.0
10°	4516.6	4462.6	4487.5	4479.2	4458.5	4508.3	4475.1	4466.8	4433.5	4387.8	4454.3
12.5°	4545.7	4608.0	4649.6	4579.0	4591.4	4566.5	4545.7	4545.7	4508.3	4495.9	4508.3
15°	4674.5	4728.5	4711.9	4765.9	4695.3	4720.2	4745.2	4682.8	4716.1	4624.7	4695.3
17.5°	4911.4	4865.7	4923.8	4853.2	4878.1	4928.0	4849.0	4849.0	4874.0	4824.1	4761.8
20°	5061.0	5040.2	5019.4	5023.6	4982.0	5027.7	5002.8	4990.3	4952.9	4969.5	5002.8
22.5°	5202.2	5173.1	5181.5	5193.9	5223.0	5202.2	5189.8	5202.2	5110.8	5193.9	5077.6
25°	5376.7	5455.7	5430.8	5484.8	5401.7	5455.7	5451.5	5372.6	5422.4	5389.2	5364.3
27.5°	5667.6	5626.0	5663.4	5597.0	5655.1	5659.3	5609.4	5742.4	5684.2	5675.9	5659.3
30°	6041.6	6012.5	5987.5	5950.2	5995.9	5958.5	6000.0	6012.5	5958.5	5916.9	5838.0
32.5°	6253.5	6332.4	6361.5	6270.1	6274.3	6295.0	6257.6	6220.2	6253.5	6265.9	6253.5
35°	6552.6	6627.4	6644.1	6573.4	6536.0	6639.9	6565.1	6689.8	6581.7	6585.9	6473.7
37.5°	6901.7	6922.5	7063.7	6984.8	6951.5	6901.7	7038.8	7022.2	7047.1	6847.7	6947.4
40°	7296.4	7371.2	7450.2	7250.7	7246.6	7292.3	7283.9	7379.5	7333.8	7304.7	7234.1
42.5°	7728.5	7886.4	7898.9	7765.9	7682.8	7674.5	7716.1	7928.0	7932.1	7741.0	7657.9
45°	8302.0	8476.5	8430.8	8173.1	8081.7	8069.3	8272.9	8364.3	8443.2	8368.4	8297.8
47.5°	9016.6	9133.0	9099.7	8862.9	8567.9	8651.0	8850.4	9137.1	9054.0	8954.3	8871.2
50°	9781.2	9918.3	9847.7	9610.8	9328.3	9328.3	9573.4	9939.1	9914.1	9718.9	9644.1
52.5°	10628.8	10828.3	10990.3	10653.8	10416.9	10454.3	10840.7	10973.7	10911.4	10774.3	10711.9
55°	11260.4	11642.7	11975.1	11991.7	12004.2	12000.0	12099.7	12232.7	11788.1	11567.9	11343.5
57.5°	11106.7	11829.7	12968.2	13741.0	13969.6	14090.1	14056.8	13441.9	12390.6	11667.6	11742.4
60°	10009.7	11189.8	13026.3	15507.0	17169.0	17002.8	16396.2	13965.4	12058.2	10836.6	10682.8
62.5°	7986.2	9407.2	12049.9	16005.6	20584.5	20534.7	17360.1	12756.3	10047.1	8501.4	8405.8
64°	6016.6	7512.5	10749.3	15876.8	21781.2	21831.1	17115.0	11268.7	7861.5	6016.6	5871.2
65°	4603.9	5991.7	9473.7	15610.8	21523.6	21552.7	16433.6	9731.3	5975.1	4271.5	4113.6
67.5°	1832.4	2551.3	5139.9	11838.0	18482.0	18403.1	11725.8	4707.8	2285.3	1487.5	1458.5
70°	781.2	972.3	1803.3	5609.4	12374.0	12145.5	5048.5	1529.1	847.6	710.5	706.4
72.5°	536.0	594.2	772.9	1732.7	5144.1	5023.6	1437.7	710.5	577.6	531.9	531.9
75°	432.1	473.7	560.9	727.1	1362.9	1313.0	677.3	523.5	461.2	428.0	423.8
77.5°	336.6	378.1	440.4	502.8	623.3	619.1	452.9	394.7	357.3	332.4	324.1
80°	265.9	307.5	349.0	357.3	407.2	398.9	307.5	311.6	290.9	241.0	236.8
82.5°	182.8	249.3	278.4	253.5	241.0	241.0	220.2	220.2	203.6	149.6	137.1
85°	112.2	166.2	174.5	149.6	112.2	112.2	120.5	116.3	108.0	78.9	74.8
87.5°	58.2	78.9	70.6	58.2	37.4	37.4	33.2	24.9	24.9	20.8	20.8
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)