

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: P479510

Luminaire Tested: **IFLD-L-SA7D-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

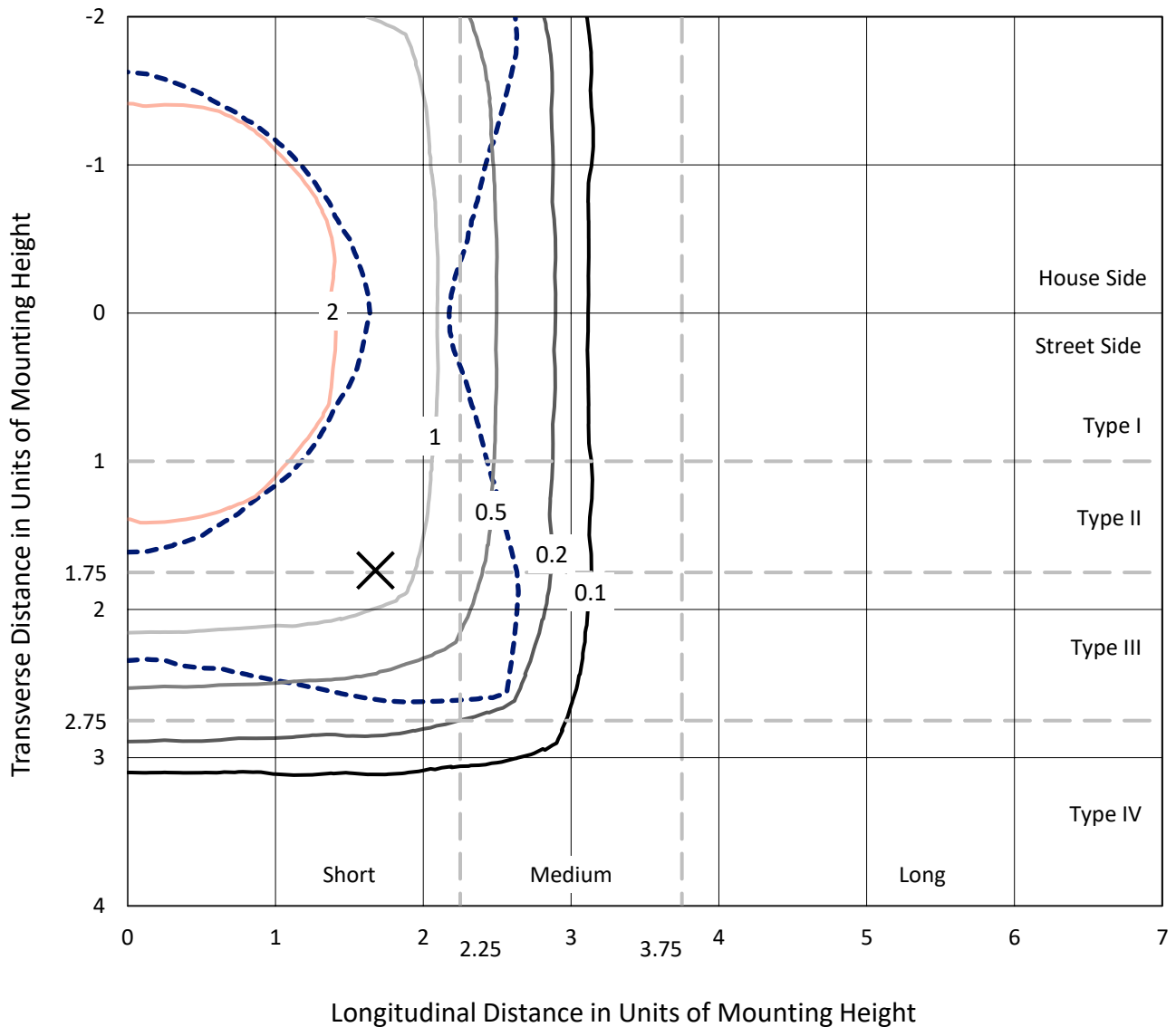
Lumens per Lamp: N/A
Luminaire Lumens: 39124.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6
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

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Iso-Footcandle Lines of Horizontal Illumination

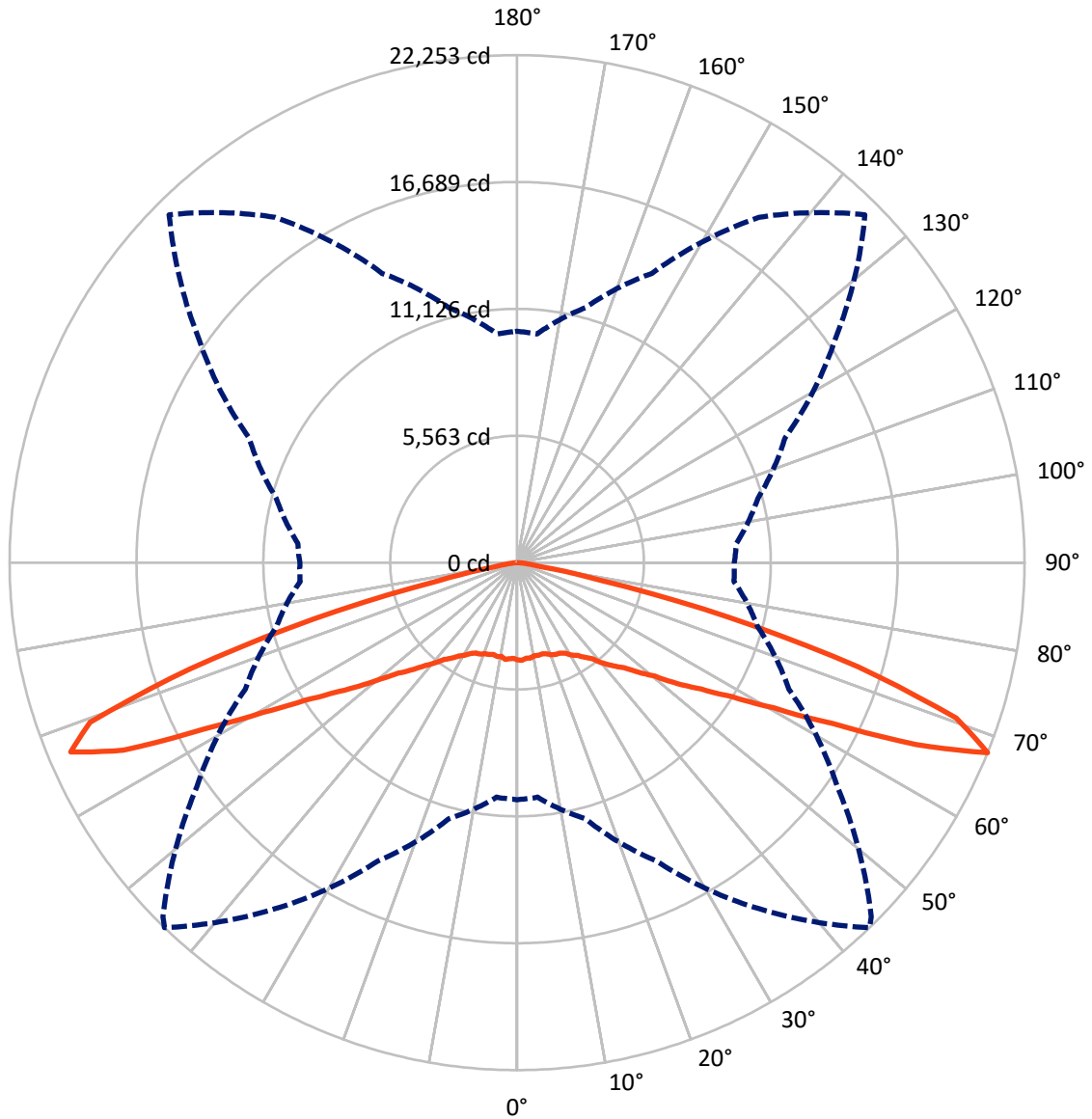
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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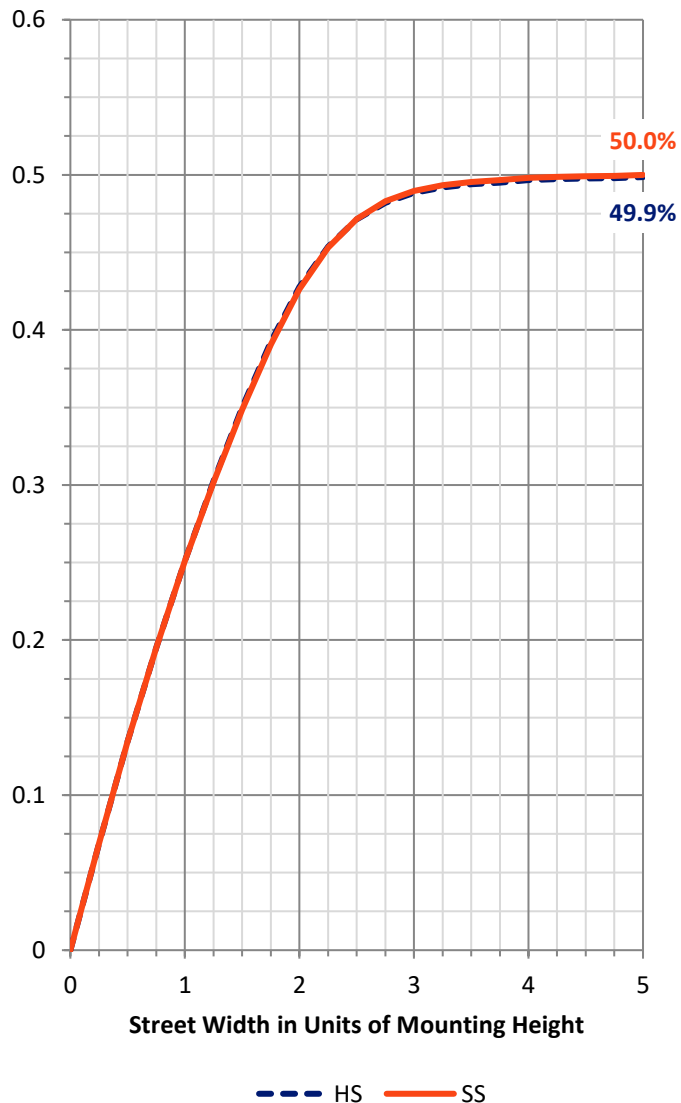
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19512.2	0.0	19512.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	19612.4	0.0	19612.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	39124.5	0.0	39124.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	1.0
10°-20°	1181.5	3.0
20°-30°	2009.2	5.1
30°-40°	3185.7	8.1
40°-50°	5194.5	13.3
50°-60°	8871.5	22.7
60°-70°	13493.5	34.5
70°-80°	4548.1	11.6
80°-90°	236.1	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°	39124.5	100.0
0°-180°	39124.5	100.0

Coefficient of Utilization



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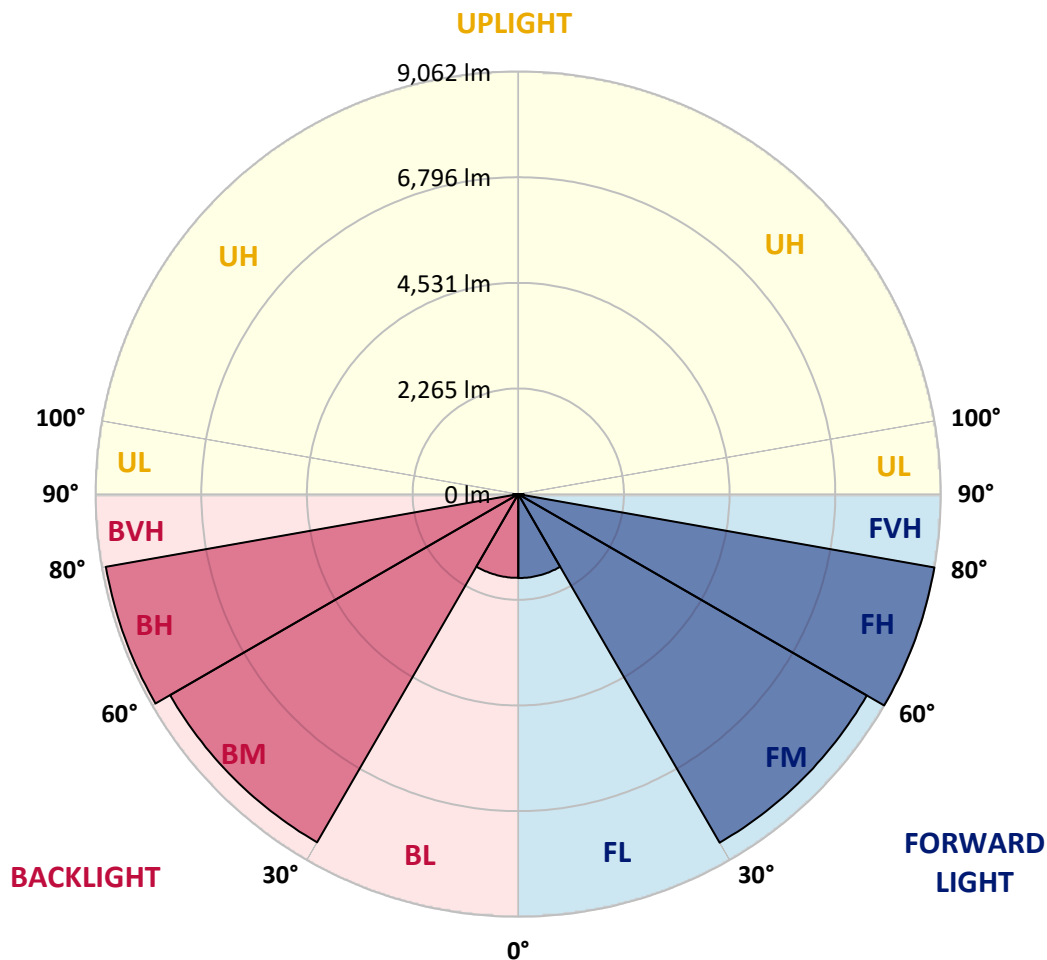
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.4	4.6			
FM (30°-60°)	8630.5	22.1			
FH (60°-80°)	9061.7	23.2			G4/12000
FVH (80°-90°)	120.8	0.3			G2/225
BL (0°-30°)	1795.7	4.6	B3/2500		
BM (30°-60°)	8621.2	22.0	B5		
BH (60°-80°)	8979.9	23.0	B5		G4/12000
BVH (80°-90°)	115.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7
2.5°	4175.4	4224.6	4260.3	4255.8	4269.2	4282.6	4264.7	4291.5	4273.7	4304.9	4322.8
5°	4255.8	4242.4	4246.9	4220.1	4282.6	4211.2	4211.2	4246.9	4291.5	4238.0	4269.2
7.5°	4206.7	4197.8	4175.4	4215.6	4229.0	4229.0	4264.7	4197.8	4273.7	4291.5	4296.0
10°	4153.1	4104.0	4171.0	4211.2	4220.1	4148.6	4179.9	4197.8	4175.4	4197.8	4211.2
12.5°	4108.4	4135.2	4135.2	4135.2	4121.8	4171.0	4202.2	4197.8	4153.1	4193.3	4121.8
15°	4104.0	4090.6	4130.8	4166.5	4144.2	4153.1	4166.5	4206.7	4121.8	4139.7	4139.7
17.5°	4099.5	4117.4	4130.8	4126.3	4202.2	4202.2	4188.8	4162.0	4229.0	4193.3	4144.2
20°	4117.4	4104.0	4139.7	4153.1	4206.7	4313.9	4273.7	4251.4	4215.6	4171.0	4171.0
22.5°	4139.7	4130.8	4179.9	4238.0	4340.7	4367.5	4363.0	4336.2	4273.7	4220.1	4211.2
25°	4220.1	4139.7	4193.3	4304.9	4340.7	4394.3	4430.0	4394.3	4309.4	4322.8	4242.4
27.5°	4340.7	4327.3	4398.7	4474.6	4443.4	4492.5	4461.2	4488.0	4492.5	4425.5	4345.1
30°	4483.6	4443.4	4488.0	4635.4	4648.8	4702.4	4648.8	4577.3	4599.7	4541.6	4501.4
32.5°	4689.0	4675.6	4760.4	4858.7	4876.6	4849.8	4823.0	4863.2	4769.4	4724.7	4653.3
35°	4823.0	4881.0	4983.7	5059.6	5117.7	5090.9	5104.3	5064.1	5086.4	4992.7	4961.4
37.5°	5220.4	5198.1	5220.4	5349.9	5363.3	5349.9	5363.3	5408.0	5376.7	5296.3	5215.9
40°	5595.5	5559.8	5613.4	5760.8	5751.8	5796.5	5707.2	5756.3	5756.3	5604.5	5573.2
42.5°	5876.9	5997.4	6060.0	6180.5	6225.2	6185.0	6167.1	6176.1	6274.3	6095.7	6028.7
45°	6457.4	6452.9	6640.5	6707.5	6582.5	6573.5	6537.8	6645.0	6712.0	6609.2	6582.5
47.5°	7087.1	7118.3	7225.5	7252.3	7328.2	7189.8	7189.8	7203.2	7439.9	7198.7	7073.7
50°	7654.2	7694.4	7908.8	8118.7	7975.8	7828.4	7886.4	7957.9	8087.4	7859.6	7752.5
52.5°	8341.9	8560.8	8703.7	8815.3	8918.0	8815.3	8681.3	8761.7	9016.3	8712.6	8578.6
55°	9333.3	9507.5	9641.5	9846.9	9931.7	9793.3	9779.9	9771.0	9913.9	9592.3	9409.2
57.5°	10440.8	10369.4	10583.7	10900.8	11208.9	11075.0	11034.8	11043.7	11079.4	10623.9	10485.5
60°	11816.3	11896.6	12151.2	12428.1	12754.1	12941.6	12678.1	12526.3	12557.6	11936.8	11722.5
62.5°	12602.2	12780.8	13356.9	14308.1	14964.6	15549.6	15589.8	14602.9	13941.9	12736.2	11825.2
65°	12222.6	12195.8	13281.0	15040.5	17527.9	19229.3	18974.8	16581.2	14272.4	12356.6	11133.0
67.5°	10396.2	10324.7	11637.6	14428.7	18537.1	22252.6	21962.3	17139.4	13156.0	10932.0	9547.7
70°	6698.6	6680.7	8105.3	10999.0	16549.9	20430.6	20537.8	15567.4	10708.8	8007.0	6636.0
72.5°	2433.8	2581.2	3407.3	5912.6	11240.2	15630.0	15697.0	11526.0	6158.2	3702.1	2728.5
75°	897.6	924.4	1076.2	1920.3	5122.2	9596.8	9846.9	5591.1	2188.2	1205.7	982.5
77.5°	518.0	522.5	576.1	714.5	1518.3	3746.7	3898.6	1697.0	848.5	643.1	593.9
80°	352.8	348.3	406.4	464.4	607.3	1062.8	1129.8	710.0	535.9	446.6	375.1
82.5°	205.4	218.8	299.2	330.5	370.7	468.9	477.8	442.1	401.9	330.5	245.6
85°	125.0	102.7	165.2	183.1	214.4	209.9	209.9	241.1	259.0	232.2	138.4
87.5°	31.3	31.3	40.2	44.7	58.1	44.7	49.1	93.8	125.0	116.1	71.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7	4273.7
2.5°	4282.6	4269.2	4278.1	4327.3	4296.0	4202.2	4224.6	4273.7	4233.5	4211.2	4206.7
5°	4264.7	4291.5	4260.3	4269.2	4300.5	4224.6	4238.0	4300.5	4273.7	4282.6	4233.5
7.5°	4269.2	4282.6	4255.8	4215.6	4215.6	4278.1	4242.4	4251.4	4211.2	4278.1	4188.8
10°	4242.4	4206.7	4175.4	4197.8	4188.8	4171.0	4157.6	4184.4	4144.2	4202.2	4139.7
12.5°	4162.0	4171.0	4162.0	4153.1	4171.0	4215.6	4144.2	4153.1	4090.6	4099.5	4130.8
15°	4130.8	4157.6	4148.6	4197.8	4220.1	4153.1	4206.7	4153.1	4104.0	4077.2	4126.3
17.5°	4144.2	4184.4	4171.0	4206.7	4166.5	4215.6	4224.6	4202.2	4144.2	4121.8	4144.2
20°	4157.6	4144.2	4162.0	4224.6	4282.6	4233.5	4233.5	4220.1	4166.5	4135.2	4135.2
22.5°	4188.8	4166.5	4193.3	4242.4	4260.3	4336.2	4269.2	4238.0	4148.6	4068.3	4144.2
25°	4251.4	4264.7	4282.6	4264.7	4363.0	4354.1	4345.1	4322.8	4184.4	4188.8	4175.4
27.5°	4371.9	4296.0	4318.3	4425.5	4438.9	4474.6	4430.0	4470.2	4322.8	4327.3	4238.0
30°	4519.3	4438.9	4510.4	4604.1	4599.7	4666.7	4644.3	4653.3	4550.6	4492.5	4371.9
32.5°	4680.1	4671.1	4715.8	4773.8	4796.2	4831.9	4827.4	4827.4	4764.9	4613.1	4635.4
35°	4858.7	4921.2	4974.8	5037.3	5046.2	5090.9	5028.4	5037.3	4974.8	4863.2	4898.9
37.5°	5211.5	5207.0	5265.1	5341.0	5349.9	5314.2	5363.3	5341.0	5256.1	5180.2	5122.2
40°	5622.3	5533.0	5586.6	5765.2	5778.6	5716.1	5711.6	5707.2	5644.7	5479.4	5443.7
42.5°	5979.6	6095.7	6086.8	6144.8	6104.6	6073.4	6185.0	6122.5	6073.4	5899.2	5867.9
45°	6439.5	6475.3	6591.4	6778.9	6586.9	6586.9	6662.8	6613.7	6586.9	6457.4	6336.8
47.5°	7011.2	7042.4	7274.6	7288.0	7163.0	7078.1	7314.8	7323.8	7212.1	7113.9	6966.5
50°	7681.0	7694.4	7904.3	8118.7	7980.2	7819.5	8060.6	8154.4	7904.3	7770.3	7587.2
52.5°	8417.9	8377.7	8551.8	8953.7	8819.8	8770.6	9029.7	9052.0	8712.6	8502.7	8551.8
55°	9266.3	9212.8	9686.1	9958.5	9873.7	9784.4	9900.5	9954.1	9681.6	9337.8	9458.4
57.5°	10364.9	10391.7	10628.4	10896.3	11034.8	11057.1	11110.7	11057.1	10780.2	10431.9	10320.2
60°	11463.5	11543.8	12003.8	12508.4	12553.1	12946.1	12874.6	12606.7	12213.7	11718.0	11740.3
62.5°	11869.8	11802.9	12544.2	13776.7	14826.1	15545.1	15228.1	14276.9	13365.9	12463.8	12530.8
65°	11052.6	11217.9	12227.1	14156.3	16433.8	19278.5	17590.4	14960.1	13120.2	11954.7	11825.2
67.5°	9525.4	9650.4	10932.0	12968.4	17009.9	21573.8	18483.6	13995.5	11570.6	10061.2	10141.6
70°	6636.0	6698.6	7953.4	10623.9	15424.5	20359.2	16674.9	10749.0	7989.1	6368.1	6457.4
72.5°	2670.5	2822.3	3648.5	6399.4	11387.5	15469.2	11226.8	5640.2	3313.6	2465.1	2237.3
75°	986.9	991.4	1165.5	2201.6	5408.0	9721.8	5064.1	1813.1	1058.4	866.3	826.2
77.5°	571.6	567.1	607.3	794.9	1567.5	3795.8	1438.0	710.0	576.1	518.0	495.7
80°	357.3	352.8	415.3	527.0	687.7	1040.5	607.3	442.1	388.5	334.9	334.9
82.5°	227.8	232.2	326.0	388.5	419.8	460.0	352.8	312.6	290.3	192.0	187.6
85°	147.4	134.0	227.8	259.0	232.2	205.4	196.5	165.2	151.8	93.8	102.7
87.5°	67.0	71.5	116.1	129.5	84.8	49.1	49.1	35.7	35.7	22.3	22.3
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)