

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: P481426

Luminaire Tested: **IFLD-L-SA8D-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

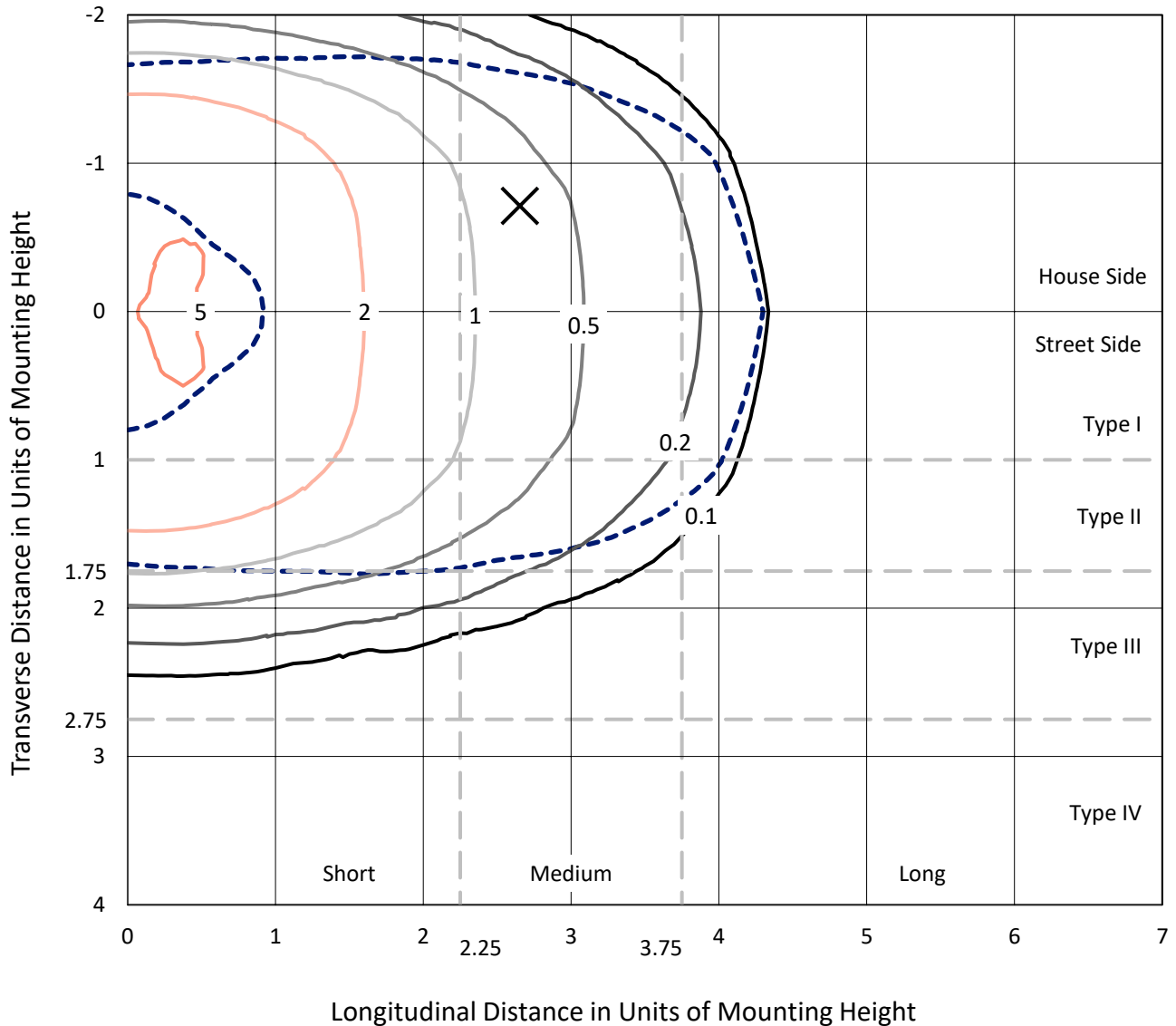
Lumens per Lamp: N/A
Luminaire Lumens: 42210.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3
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

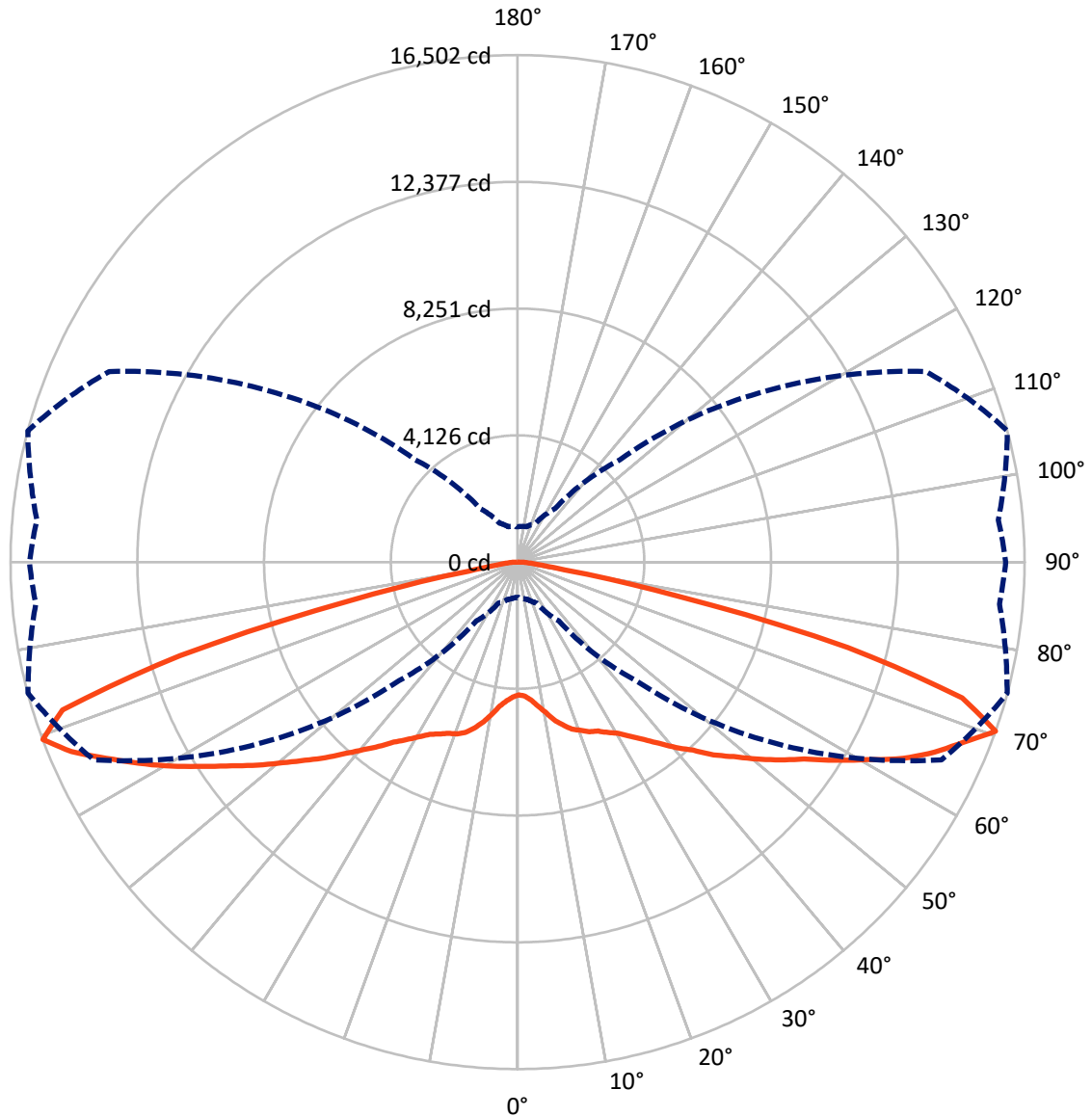
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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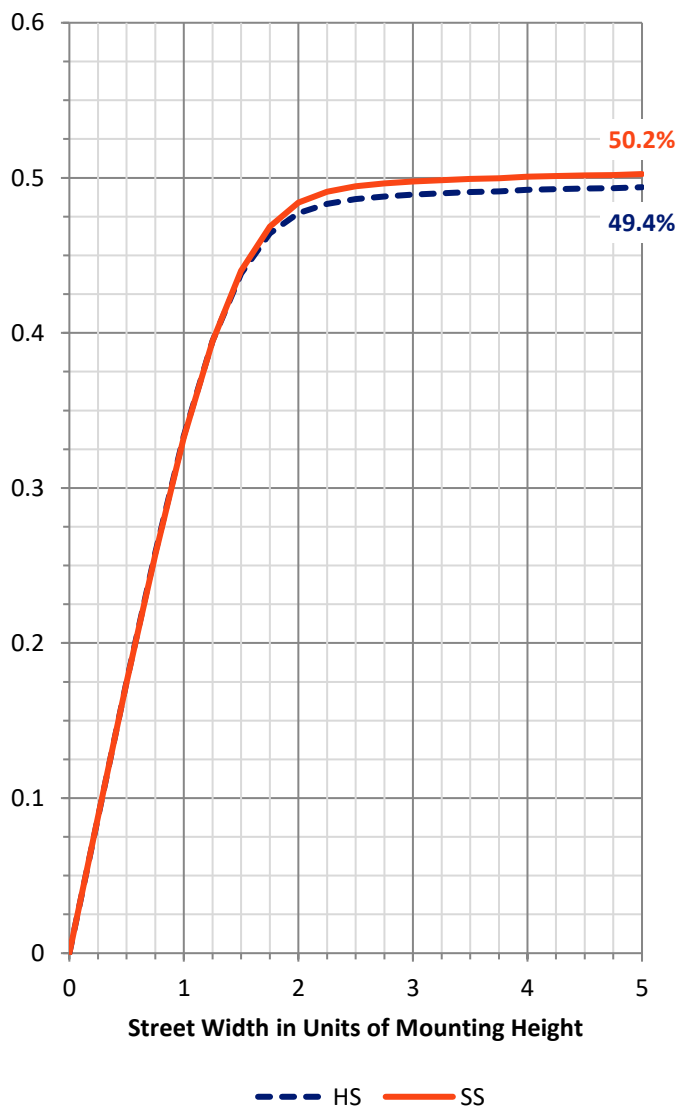
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20955.2	0.0	20955.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21255.5	0.0	21255.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	42210.6	0.0	42210.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.2	1.0
10°-20°	1464.8	3.5
20°-30°	2836.4	6.7
30°-40°	4797.6	11.4
40°-50°	7653.6	18.1
50°-60°	10476.1	24.8
60°-70°	9874.5	23.4
70°-80°	4350.0	10.3
80°-90°	327.3	0.8
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°	42210.6	100.0
0°-180°	42210.6	100.0

Coefficient of Utilization

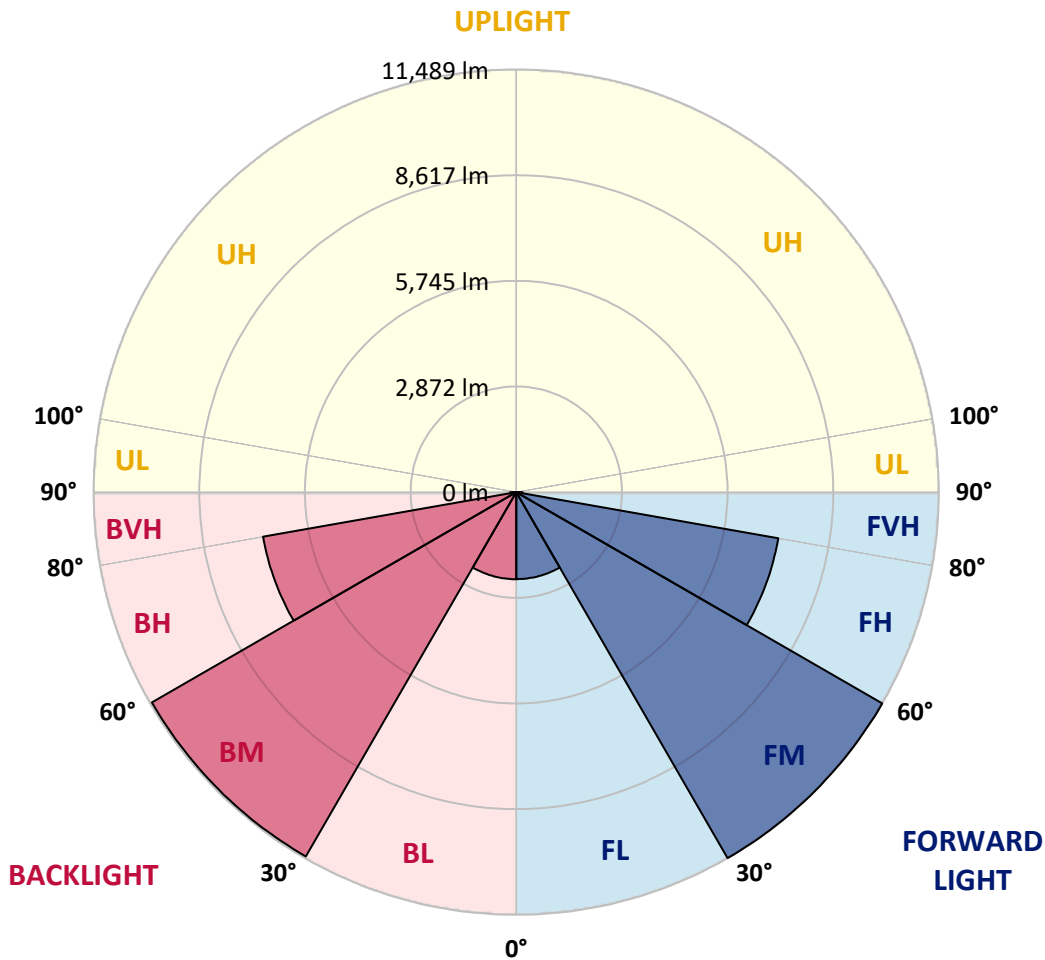


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.5	5.6			
FM (30°-60°)	11489.4	27.2			
FH (60°-80°)	7234.4	17.1			G3/7500
FVH (80°-90°)	167.2	0.4			G2/225
BL (0°-30°)	2367.0	5.6	B3/2500		
BM (30°-60°)	11438.0	27.1	B5		
BH (60°-80°)	6990.0	16.6	B5		G5
BVH (80°-90°)	160.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3
2.5°	4295.0	4295.0	4290.5	4313.2	4336.0	4345.1	4363.3	4367.8	4395.1	4372.4	4417.9
5°	4281.4	4276.8	4313.2	4367.8	4367.8	4427.0	4463.4	4513.4	4527.1	4554.4	4563.5
7.5°	4376.9	4367.8	4349.6	4408.8	4458.8	4549.8	4599.9	4686.3	4718.2	4754.6	4795.5
10°	4436.1	4436.1	4417.9	4522.5	4568.0	4690.9	4800.1	4886.5	5009.3	5050.3	5054.8
12.5°	4445.2	4458.8	4513.4	4649.9	4777.3	4936.6	5018.4	5182.2	5305.1	5382.4	5409.7
15°	4581.7	4554.4	4613.5	4800.1	4986.6	5127.6	5273.2	5391.5	5569.0	5669.1	5732.8
17.5°	4704.5	4677.2	4786.4	5009.3	5200.4	5418.8	5546.2	5673.6	5801.0	5892.0	5896.6
20°	4900.2	4922.9	5018.4	5259.6	5509.8	5700.9	5846.5	5869.3	5933.0	6064.9	6042.2
22.5°	5141.3	5123.1	5323.3	5587.2	5860.2	6019.4	6101.3	6042.2	6010.3	6151.4	6183.2
25°	5382.4	5437.0	5619.0	5864.7	6192.3	6406.1	6428.9	6265.1	6146.8	6196.9	6183.2
27.5°	5751.0	5760.1	5951.2	6242.3	6574.5	6761.0	6747.4	6515.3	6287.8	6292.4	6301.5
30°	6224.1	6178.7	6387.9	6651.8	6979.4	7147.8	7170.5	6838.4	6533.5	6442.5	6465.3
32.5°	6679.1	6733.7	6915.7	7216.0	7457.1	7552.7	7502.6	7206.9	6811.1	6688.2	6701.9
35°	7261.5	7252.4	7502.6	7757.4	7939.4	7957.6	7916.7	7484.4	7111.4	6952.1	6888.4
37.5°	7884.8	7966.7	8130.5	8339.8	8530.9	8540.0	8317.1	7971.3	7511.7	7247.9	7325.2
40°	8581.0	8672.0	8790.2	9095.1	9236.1	9090.5	8863.0	8394.4	7916.7	7684.6	7721.0
42.5°	9195.2	9236.1	9477.3	9836.7	9905.0	9841.3	9504.6	8935.8	8380.8	8126.0	8144.2
45°	9759.4	9814.0	10127.9	10450.9	10610.2	10501.0	10109.7	9568.3	8922.2	8703.8	8617.4
47.5°	10278.0	10387.2	10692.1	11024.2	11269.9	11279.0	10796.7	10141.5	9459.1	9172.4	9167.9
50°	10628.4	10787.6	11087.9	11465.5	11825.0	11966.0	11483.7	10778.5	10046.0	9741.2	9709.3
52.5°	10819.5	10983.3	11283.5	11870.5	12270.9	12489.2	12261.8	11374.5	10733.0	10414.5	10364.5
55°	10587.4	10696.6	11188.0	12011.5	12630.3	12989.7	12839.6	12198.1	11415.5	11156.2	11201.6
57.5°	9600.1	9827.6	10432.7	11461.0	12621.2	13503.9	13490.2	12976.1	12202.6	11956.9	11966.0
60°	7903.0	8094.1	8840.3	10278.0	12111.6	13713.1	14195.4	13731.3	13085.3	12798.6	12789.5
62.5°	5578.1	5819.2	6683.7	8253.4	10610.2	13422.0	15005.3	14682.3	13949.7	13740.4	13817.8
65°	3121.2	3266.8	4067.5	5487.1	8085.0	11820.4	15150.9	15669.6	14827.9	14509.4	14523.0
67.5°	1669.8	1724.4	2097.5	2880.0	4945.7	9113.3	13681.3	16238.3	15778.8	15228.2	15141.8
70°	1146.6	1164.8	1260.3	1474.1	2338.6	5450.7	10319.0	15223.7	16493.1	15742.4	15888.0
72.5°	969.1	960.0	982.8	1005.5	1223.9	2438.7	6055.8	11715.8	15569.5	15287.4	15232.8
75°	841.7	837.2	846.3	823.5	850.8	1073.8	2679.8	7302.5	11397.3	12721.3	12926.0
77.5°	696.1	700.7	705.2	682.5	673.4	709.8	1078.3	3207.6	5609.9	6192.3	6679.1
80°	527.8	536.9	573.3	550.5	514.1	518.7	637.0	1073.8	1610.6	1460.5	1506.0
82.5°	359.4	364.0	441.3	414.0	386.7	350.3	409.5	555.1	627.9	477.7	418.6
85°	254.8	250.2	286.6	263.9	245.7	177.4	245.7	313.9	377.6	236.6	213.8
87.5°	59.1	59.1	118.3	95.5	91.0	72.8	95.5	122.8	163.8	104.6	95.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3	4322.3
2.5°	4404.2	4363.3	4363.3	4354.2	4317.8	4308.7	4276.8	4285.9	4263.2	4240.4
5°	4558.9	4504.3	4504.3	4427.0	4354.2	4345.1	4308.7	4308.7	4272.3	4281.4
7.5°	4772.8	4722.7	4640.8	4572.6	4472.5	4431.5	4363.3	4354.2	4345.1	4326.9
10°	5027.5	4963.8	4882.0	4740.9	4659.0	4581.7	4513.4	4417.9	4395.1	4399.7
12.5°	5373.3	5273.2	5095.8	4972.9	4868.3	4768.2	4668.1	4527.1	4495.2	4508.9
15°	5619.0	5491.6	5314.2	5268.7	5127.6	5004.8	4841.0	4681.8	4627.2	4613.5
17.5°	5819.2	5714.6	5609.9	5541.7	5427.9	5277.8	5050.3	4868.3	4745.5	4731.8
20°	5983.0	5846.5	5823.8	5864.7	5723.7	5623.6	5346.0	5123.1	4959.3	4891.1
22.5°	6083.1	5996.7	6060.4	6096.8	6087.7	5919.3	5632.7	5373.3	5168.6	5104.9
25°	6192.3	6092.2	6319.7	6442.5	6474.4	6196.9	5973.9	5632.7	5432.5	5391.5
27.5°	6246.9	6283.3	6547.2	6806.5	6783.8	6569.9	6269.6	5964.8	5805.6	5732.8
30°	6406.1	6465.3	6865.7	7156.9	7161.4	6952.1	6724.6	6378.8	6201.4	6169.6
32.5°	6692.8	6765.6	7193.3	7502.6	7557.2	7398.0	7170.5	6956.7	6774.7	6701.9
35°	6911.2	7097.7	7580.0	7862.1	8007.7	7912.1	7784.7	7561.8	7370.7	7307.0
37.5°	7225.1	7484.4	7948.5	8330.7	8494.5	8485.4	8389.9	8148.7	7989.5	7934.9
40°	7675.5	7934.9	8358.0	8863.0	9167.9	9154.2	9099.6	8913.1	8676.5	8649.2
42.5°	8153.3	8367.1	8917.6	9495.5	9932.2	9886.8	9741.2	9522.8	9359.0	9322.6
45°	8617.4	8949.5	9459.1	10200.7	10528.3	10642.0	10469.1	10096.0	9909.5	9886.8
47.5°	9199.7	9463.6	10100.6	10764.9	11251.7	11269.9	10974.2	10628.4	10287.1	10359.9
50°	9718.4	10068.7	10714.8	11442.8	12025.2	11815.9	11438.2	11006.0	10760.3	10664.8
52.5°	10273.5	10701.2	11451.9	12193.5	12516.5	12307.3	11693.0	11210.7	10837.7	10796.7
55°	11083.4	11306.3	12289.1	12857.8	12962.4	12521.1	11615.7	10933.2	10450.9	10332.6
57.5°	11906.9	12166.2	13026.1	13517.5	13408.3	12402.8	11115.2	10059.6	9427.2	9258.9
60°	12739.5	13058.0	13781.4	14231.8	13667.6	11588.4	9700.2	8339.8	7602.7	7452.6
62.5°	13667.6	14081.7	14727.8	14887.0	12898.7	9977.7	7698.3	6019.4	5273.2	5023.0
65°	14491.2	14914.3	15710.5	14750.5	11265.3	7443.5	4977.5	3439.7	2889.1	2688.9
67.5°	15169.1	15646.8	16038.1	13053.4	8248.8	4358.7	2593.4	1810.8	1606.1	1533.3
70°	15706.0	16502.2	14673.2	9595.6	4713.6	2124.8	1401.3	1192.1	1164.8	1146.6
72.5°	15237.3	15132.7	10956.0	5537.1	2065.6	1169.3	1014.6	982.8	978.2	982.8
75°	12461.9	11115.2	6551.7	2406.9	1037.4	846.3	841.7	828.1	850.8	850.8
77.5°	6046.7	5286.9	2739.0	1032.8	682.5	664.3	687.0	687.0	687.0	687.0
80°	1401.3	1551.5	978.2	627.9	495.9	495.9	546.0	550.5	527.8	518.7
82.5°	477.7	637.0	536.9	395.8	327.6	368.5	414.0	423.1	350.3	354.9
85°	236.6	373.1	291.2	227.5	168.3	227.5	268.4	282.1	241.1	232.0
87.5°	109.2	163.8	109.2	77.3	59.1	81.9	77.3	63.7	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)