

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: P481421

Luminaire Tested: **IFLD-L-SA7D-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

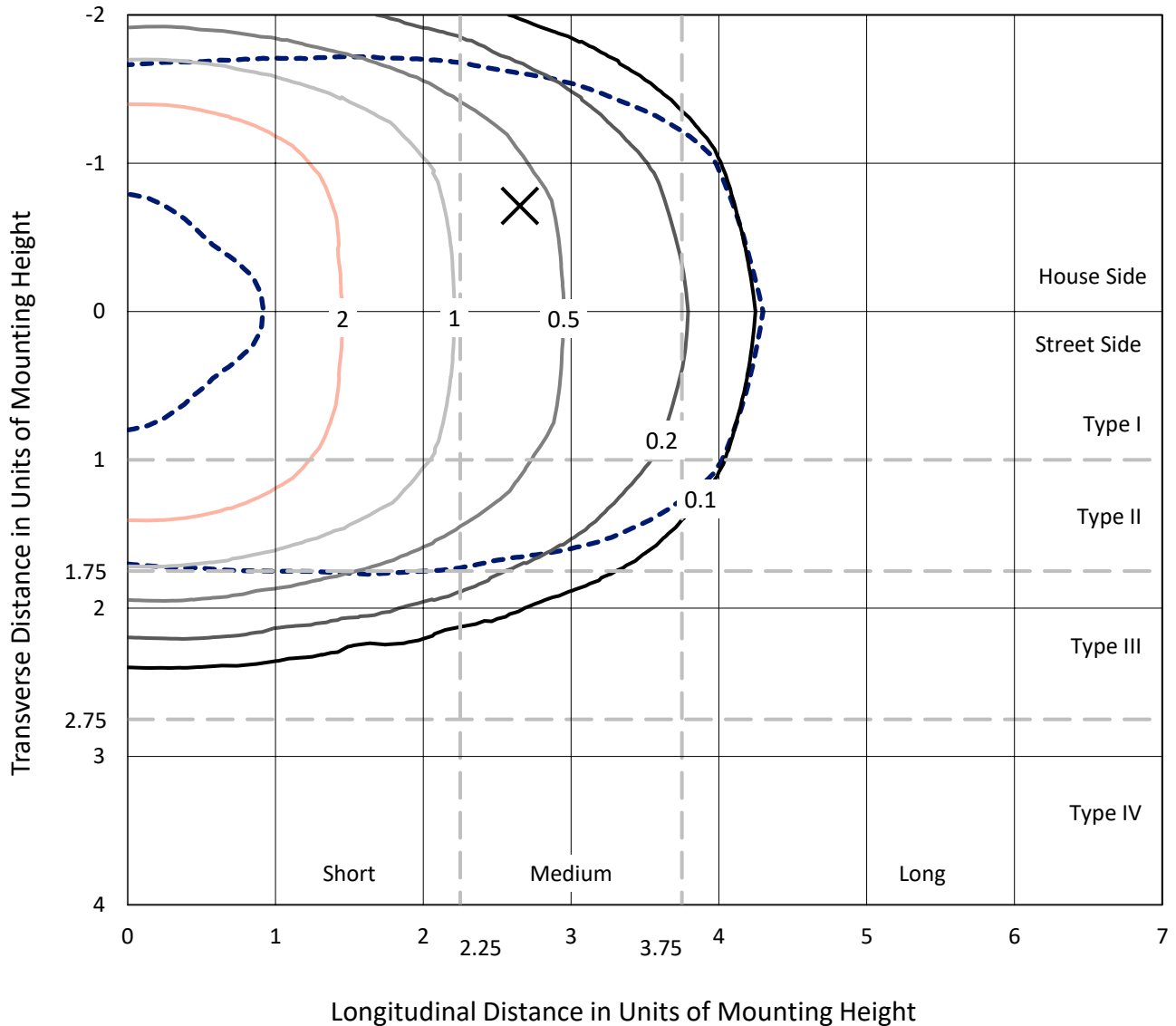
Lumens per Lamp: N/A
Luminaire Lumens: 36934.2 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

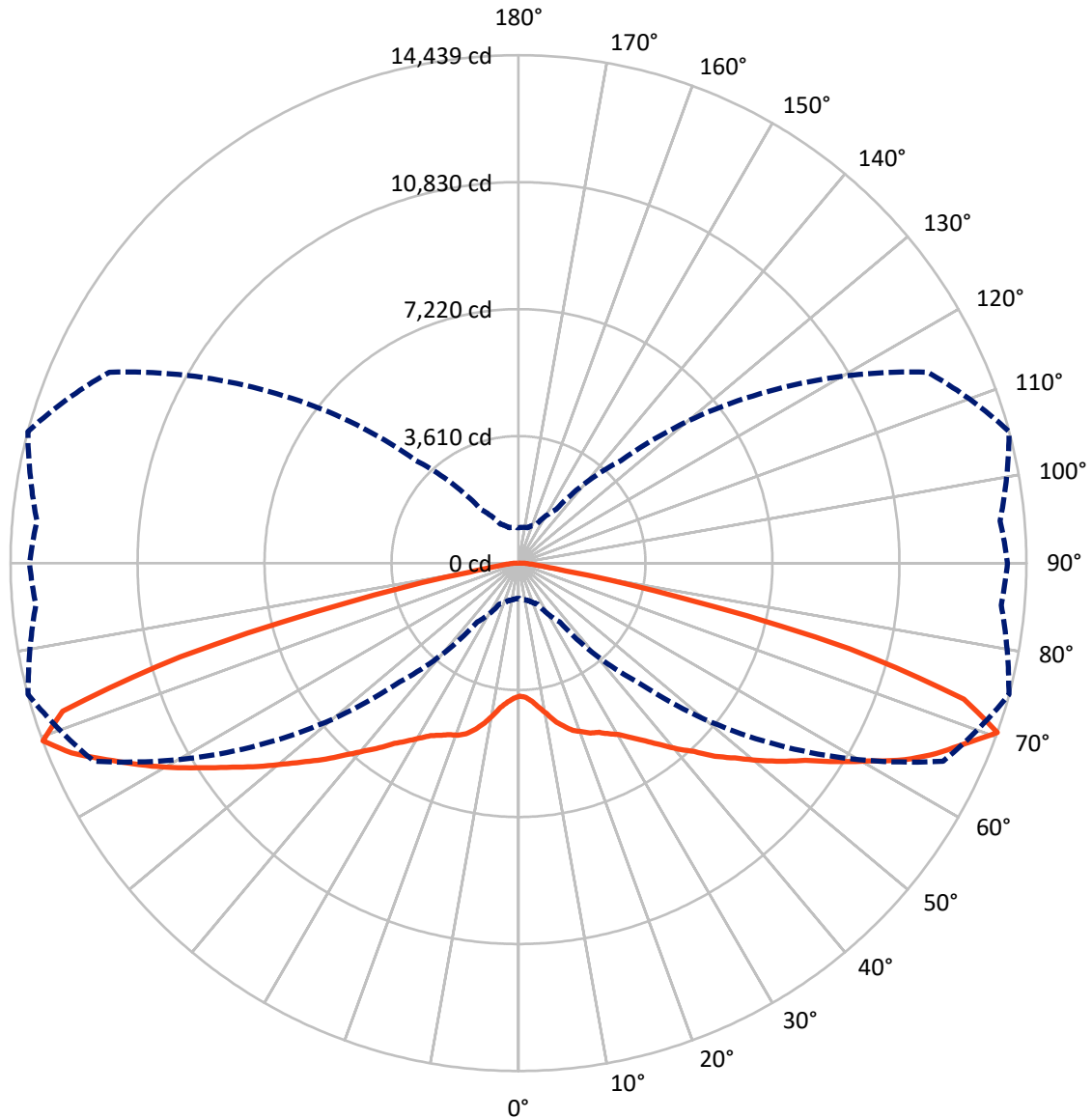
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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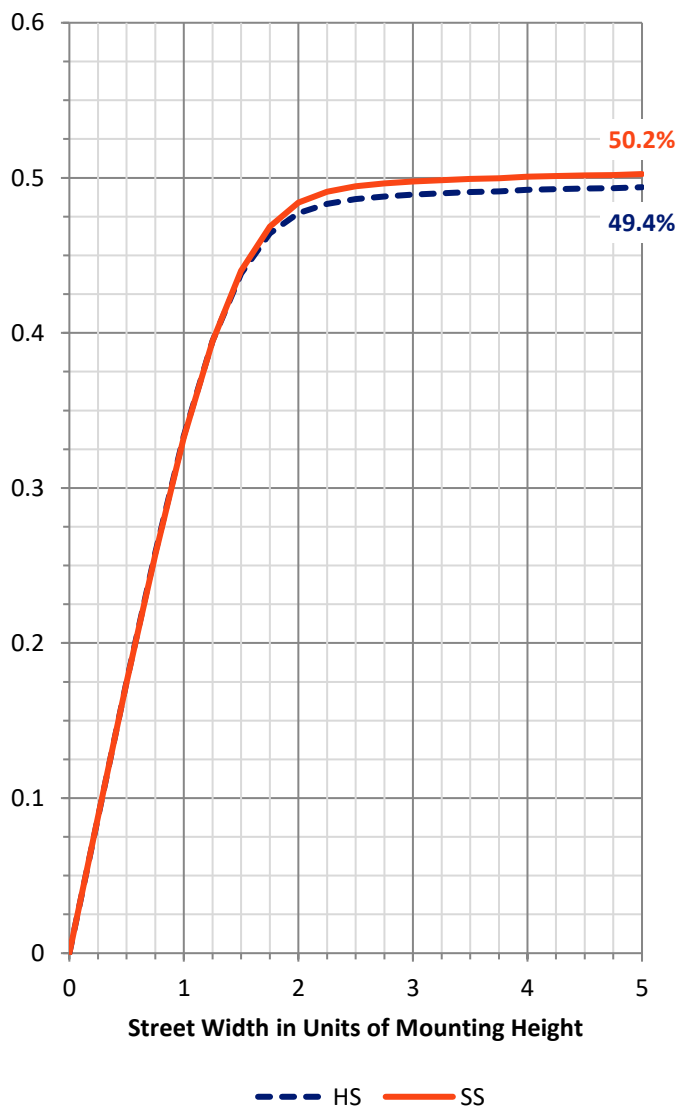
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18335.7	0.0	18335.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18598.5	0.0	18598.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	36934.2	0.0	36934.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.4	1.0
10°-20°	1281.7	3.5
20°-30°	2481.9	6.7
30°-40°	4197.9	11.4
40°-50°	6696.9	18.1
50°-60°	9166.6	24.8
60°-70°	8640.1	23.4
70°-80°	3806.2	10.3
80°-90°	286.4	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°	36934.2	100.0
0°-180°	36934.2	100.0

Coefficient of Utilization

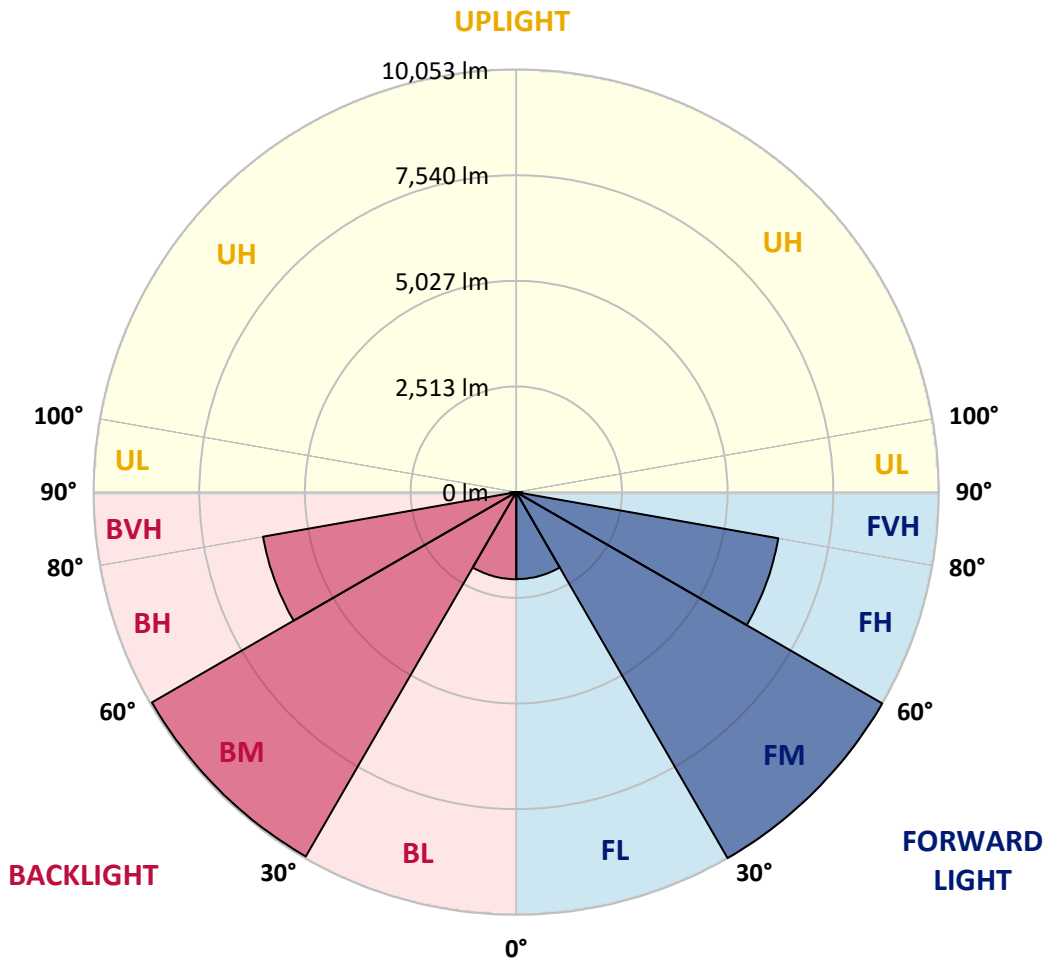


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2068.9	5.6			
FM (30°-60°)	10053.2	27.2			
FH (60°-80°)	6330.1	17.1			G3/7500
FVH (80°-90°)	146.3	0.4			G2/225
BL (0°-30°)	2071.2	5.6	B3/2500		
BM (30°-60°)	10008.2	27.1	B5		
BH (60°-80°)	6116.2	16.6	B5		G5
BVH (80°-90°)	140.1	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°	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0
2.5°	3758.1	3758.1	3754.2	3774.1	3794.0	3801.9	3817.9	3821.8	3845.7	3825.8	3865.6
5°	3746.2	3742.2	3774.1	3821.8	3821.8	3873.6	3905.4	3949.2	3961.2	3985.1	3993.0
7.5°	3829.8	3821.8	3805.9	3857.7	3901.5	3981.1	4024.9	4100.5	4128.4	4160.2	4196.1
10°	3881.6	3881.6	3865.6	3957.2	3997.0	4104.5	4200.0	4275.7	4383.2	4419.0	4423.0
12.5°	3889.5	3901.5	3949.2	4068.7	4180.1	4319.5	4391.1	4534.4	4641.9	4709.6	4733.5
15°	4008.9	3985.1	4036.8	4200.0	4363.3	4486.7	4614.1	4717.6	4872.8	4960.4	5016.2
17.5°	4116.4	4092.5	4188.1	4383.2	4550.4	4741.5	4852.9	4964.4	5075.9	5155.5	5159.5
20°	4287.6	4307.5	4391.1	4602.1	4821.1	4988.3	5115.7	5135.6	5191.3	5306.8	5286.9
22.5°	4498.6	4482.7	4657.9	4888.8	5127.6	5267.0	5338.6	5286.9	5259.0	5382.4	5410.3
25°	4709.6	4757.4	4916.6	5131.6	5418.2	5605.4	5625.3	5481.9	5378.4	5422.2	5410.3
27.5°	5032.1	5040.0	5207.3	5462.0	5752.7	5915.9	5903.9	5700.9	5501.9	5505.8	5513.8
30°	5446.1	5406.3	5589.4	5820.3	6107.0	6254.3	6274.2	5983.6	5716.8	5637.2	5657.1
32.5°	5844.2	5892.0	6051.2	6314.0	6525.0	6608.6	6564.8	6306.0	5959.7	5852.2	5864.1
35°	6353.8	6345.8	6564.8	6787.7	6947.0	6962.9	6927.1	6548.9	6222.4	6083.1	6027.4
37.5°	6899.2	6970.9	7114.2	7297.3	7464.5	7472.5	7277.4	6974.9	6572.8	6341.9	6409.5
40°	7508.3	7587.9	7691.4	7958.2	8081.6	7954.2	7755.1	7345.1	6927.1	6724.0	6755.9
42.5°	8045.8	8081.6	8292.6	8607.1	8666.8	8611.1	8316.5	7818.8	7333.1	7110.2	7126.1
45°	8539.4	8587.2	8861.9	9144.5	9283.9	9188.3	8846.0	8372.2	7806.9	7615.8	7540.2
47.5°	8993.3	9088.8	9355.5	9646.2	9861.1	9869.1	9447.1	8873.8	8276.7	8025.9	8021.9
50°	9299.8	9439.1	9701.9	10032.3	10346.8	10470.2	10048.2	9431.2	8790.2	8523.5	8495.6
52.5°	9467.0	9610.3	9873.1	10386.6	10737.0	10928.1	10729.0	9952.7	9391.4	9112.7	9068.9
55°	9264.0	9359.5	9789.5	10510.1	11051.5	11366.0	11234.6	10673.3	9988.5	9761.6	9801.4
57.5°	8400.1	8599.1	9128.6	10028.3	11043.5	11815.8	11803.9	11354.0	10677.3	10462.3	10470.2
60°	6915.1	7082.3	7735.2	8993.3	10597.6	11999.0	12421.0	12014.9	11449.6	11198.8	11190.8
62.5°	4880.8	5091.8	5848.2	7221.7	9283.9	11744.2	13129.6	12846.9	12206.0	12022.9	12090.5
65°	2731.0	2858.4	3559.1	4801.2	7074.4	10342.8	13257.0	13710.8	12974.3	12695.7	12707.6
67.5°	1461.1	1508.8	1835.3	2520.0	4327.4	7974.1	11971.1	14208.5	13806.4	13324.7	13249.0
70°	1003.2	1019.2	1102.8	1289.9	2046.3	4769.3	9029.1	13320.7	14431.4	13774.5	13901.9
72.5°	848.0	840.0	859.9	879.8	1070.9	2133.9	5298.8	10251.3	13623.3	13376.4	13328.7
75°	736.5	732.5	740.5	720.6	744.5	939.5	2344.9	6389.6	9972.6	11131.1	11310.2
77.5°	609.1	613.1	617.1	597.2	589.2	621.0	943.5	2806.7	4908.7	5418.2	5844.2
80°	461.8	469.8	501.6	481.7	449.9	453.8	557.4	939.5	1409.3	1277.9	1317.7
82.5°	314.5	318.5	386.2	362.3	338.4	306.5	358.3	485.7	549.4	418.0	366.3
85°	222.9	219.0	250.8	230.9	215.0	155.3	215.0	274.7	330.4	207.0	187.1
87.5°	51.8	51.8	103.5	83.6	79.6	63.7	83.6	107.5	143.3	91.6	83.6
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°	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0
2.5°	3853.7	3817.9	3817.9	3809.9	3778.0	3770.1	3742.2	3750.2	3730.3	3710.4
5°	3989.0	3941.3	3941.3	3873.6	3809.9	3801.9	3770.1	3770.1	3738.2	3746.2
7.5°	4176.2	4132.4	4060.7	4001.0	3913.4	3877.6	3817.9	3809.9	3801.9	3786.0
10°	4399.1	4343.4	4271.7	4148.3	4076.6	4008.9	3949.2	3865.6	3845.7	3849.7
12.5°	4701.7	4614.1	4458.8	4351.3	4259.8	4172.2	4084.6	3961.2	3933.3	3945.2
15°	4916.6	4805.2	4649.9	4610.1	4486.7	4379.2	4235.9	4096.5	4048.8	4036.8
17.5°	5091.8	5000.2	4908.7	4849.0	4749.4	4618.1	4419.0	4259.8	4152.3	4140.3
20°	5235.1	5115.7	5095.8	5131.6	5008.2	4920.6	4677.8	4482.7	4339.4	4279.7
22.5°	5322.7	5247.1	5302.8	5334.6	5326.7	5179.4	4928.6	4701.7	4522.5	4466.8
25°	5418.2	5330.7	5529.7	5637.2	5665.1	5422.2	5227.2	4928.6	4753.4	4717.6
27.5°	5466.0	5497.9	5728.8	5955.7	5935.8	5748.7	5485.9	5219.2	5079.9	5016.2
30°	5605.4	5657.1	6007.4	6262.2	6266.2	6083.1	5884.0	5581.5	5426.2	5398.3
32.5°	5856.2	5919.9	6294.1	6564.8	6612.6	6473.2	6274.2	6087.1	5927.8	5864.1
35°	6047.3	6210.5	6632.5	6879.3	7006.7	6923.1	6811.6	6616.6	6449.3	6393.6
37.5°	6322.0	6548.9	6954.9	7289.4	7432.7	7424.7	7341.1	7130.1	6990.8	6943.0
40°	6716.1	6943.0	7313.2	7755.1	8021.9	8009.9	7962.2	7798.9	7591.9	7568.0
42.5°	7134.1	7321.2	7802.9	8308.5	8690.7	8650.9	8523.5	8332.4	8189.1	8157.2
45°	7540.2	7830.8	8276.7	8925.6	9212.2	9311.7	9160.5	8834.0	8670.8	8650.9
47.5°	8049.7	8280.6	8838.0	9419.2	9845.2	9861.1	9602.4	9299.8	9001.2	9064.9
50°	8503.6	8810.1	9375.4	10012.4	10522.0	10338.9	10008.4	9630.2	9415.3	9331.7
52.5°	8989.3	9363.5	10020.4	10669.3	10951.9	10768.8	10231.4	9809.4	9482.9	9447.1
55°	9697.9	9893.0	10752.9	11250.5	11342.1	10955.9	10163.7	9566.5	9144.5	9041.0
57.5°	10418.5	10645.4	11397.8	11827.8	11732.2	10852.4	9725.8	8802.2	8248.8	8101.5
60°	11147.0	11425.7	12058.7	12452.8	11959.2	10139.8	8487.7	7297.3	6652.4	6521.0
62.5°	11959.2	12321.4	12886.8	13026.1	11286.4	8730.5	6736.0	5267.0	4614.1	4395.1
65°	12679.7	13050.0	13746.7	12906.7	9857.2	6513.0	4355.3	3009.7	2528.0	2352.8
67.5°	13272.9	13690.9	14033.3	11421.7	7217.7	3813.9	2269.2	1584.5	1405.3	1341.6
70°	13742.7	14439.4	12839.0	8396.1	4124.4	1859.2	1226.2	1043.0	1019.2	1003.2
72.5°	13332.6	13241.1	9586.4	4845.0	1807.4	1023.1	887.8	859.9	855.9	859.9
75°	10904.2	9725.8	5732.8	2106.0	907.7	740.5	736.5	724.6	744.5	744.5
77.5°	5290.9	4626.0	2396.6	903.7	597.2	581.2	601.1	601.1	601.1	601.1
80°	1226.2	1357.5	855.9	549.4	433.9	433.9	477.7	481.7	461.8	453.8
82.5°	418.0	557.4	469.8	346.4	286.6	322.5	362.3	370.2	306.5	310.5
85°	207.0	326.4	254.8	199.1	147.3	199.1	234.9	246.8	211.0	203.0
87.5°	95.5	143.3	95.5	67.7	51.8	71.7	67.7	55.7	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)