

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: P481267

Luminaire Tested: **IFLD-L-SA8A-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481267
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

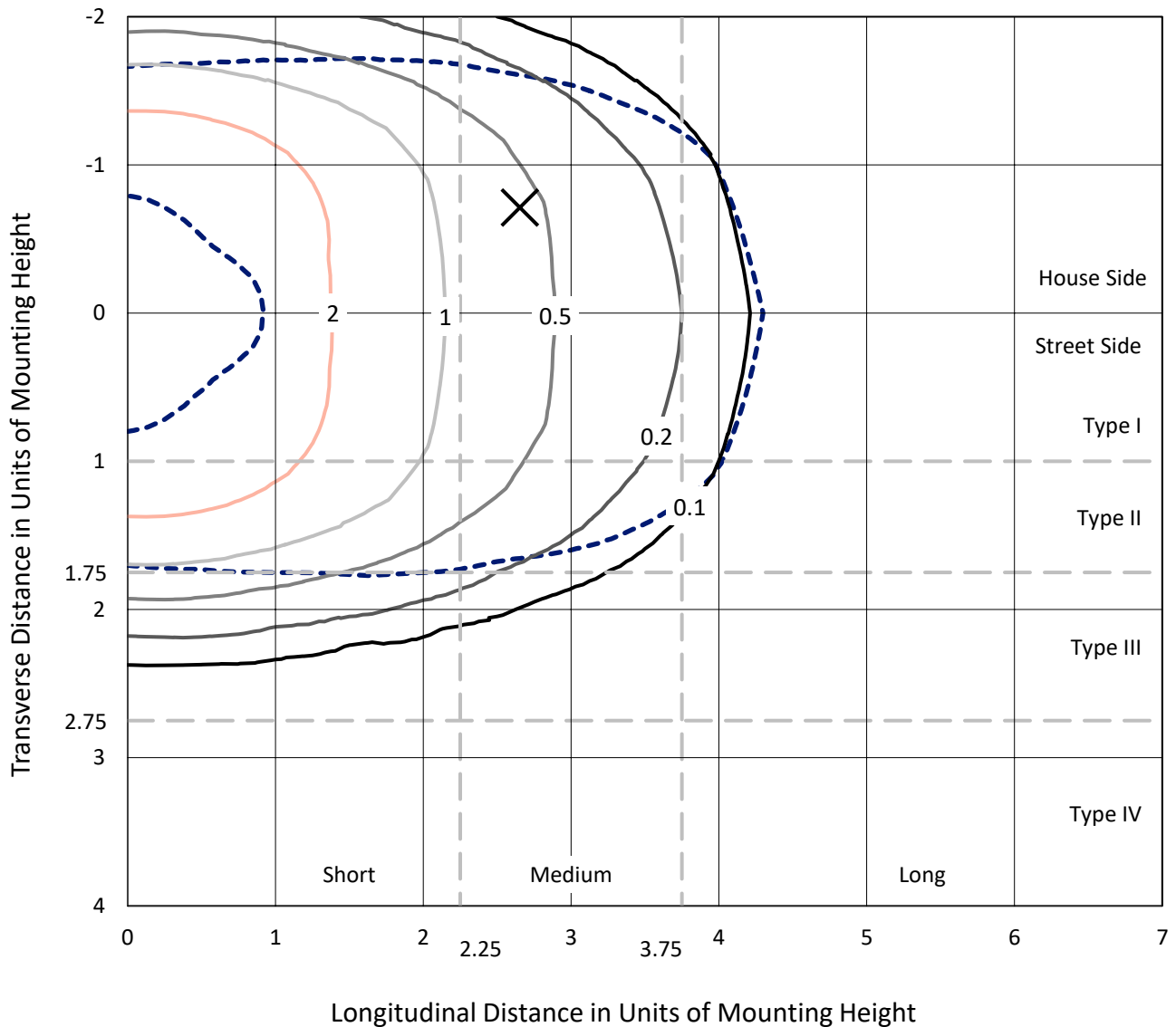
Lumens per Lamp: N/A
Luminaire Lumens: 34801.5 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 247.8
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

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Iso-Footcandle Lines of Horizontal Illumination

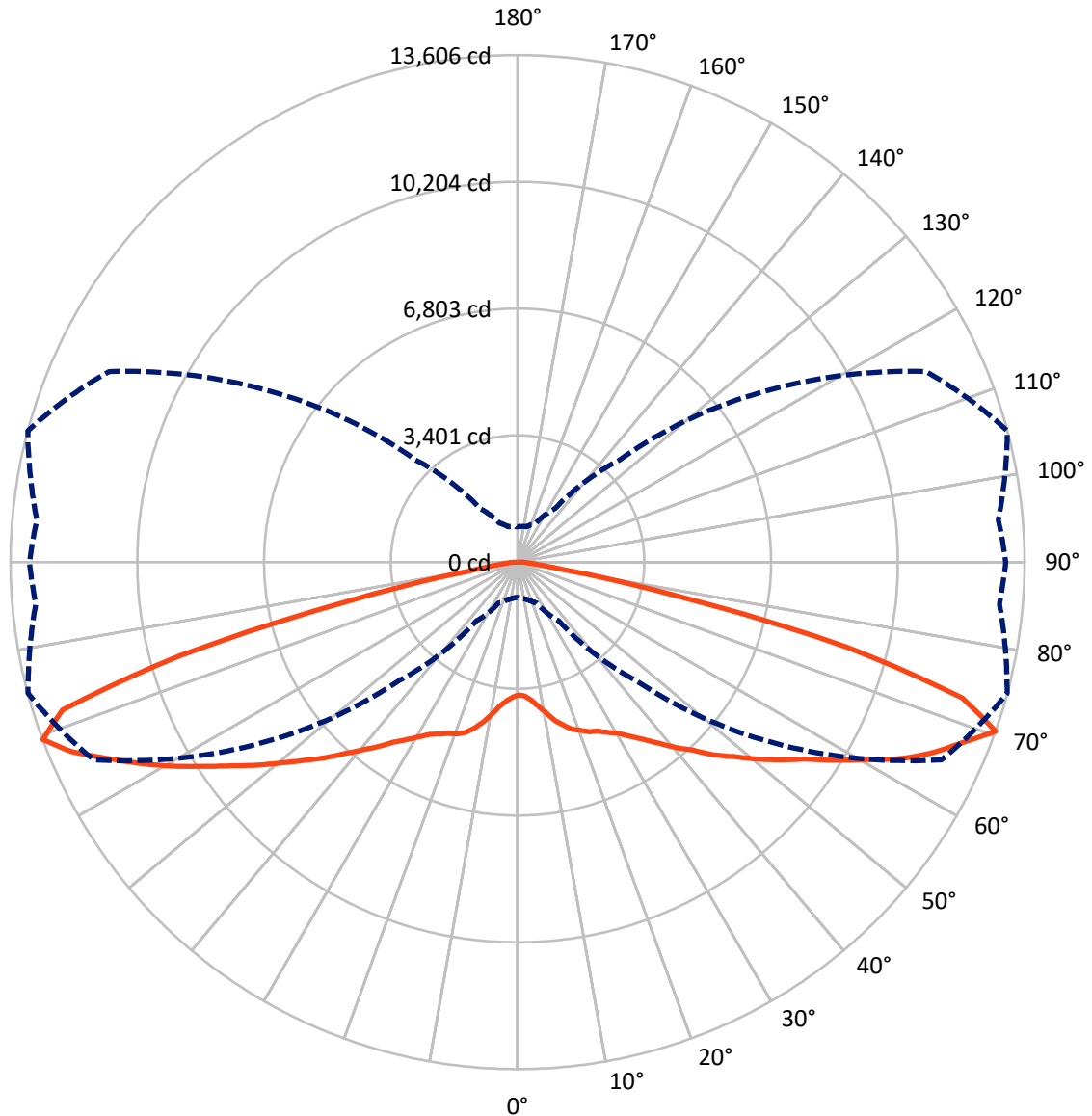
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type 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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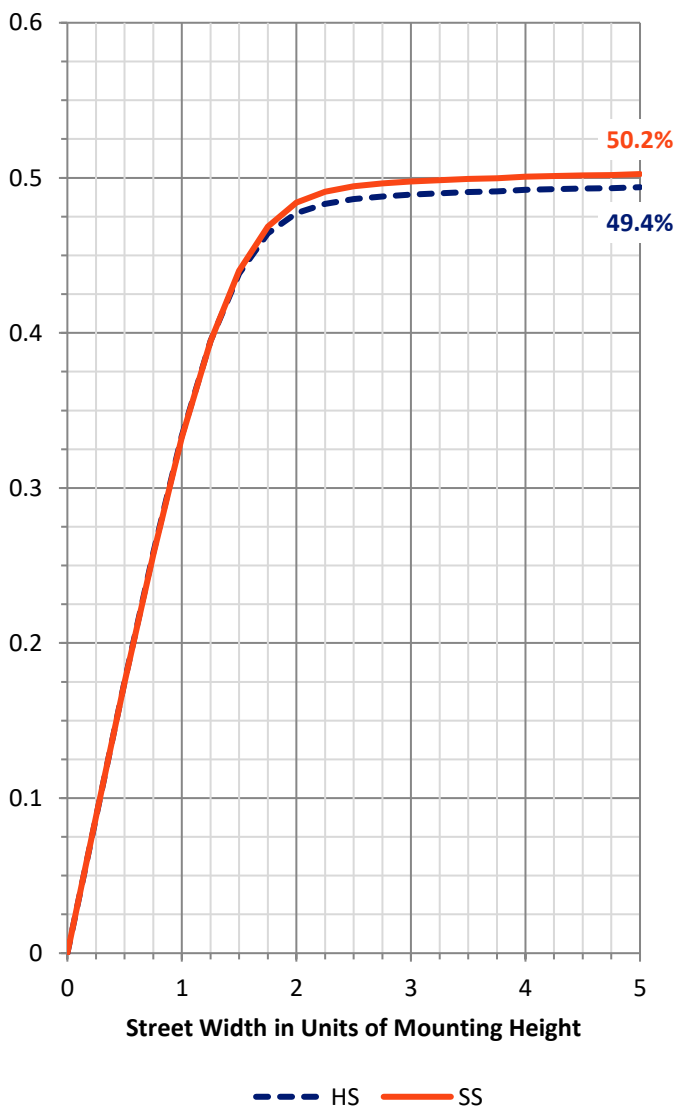
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17276.9	0.0	17276.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17524.5	0.0	17524.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	34801.5	0.0	34801.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	1.0
10°-20°	1207.7	3.5
20°-30°	2338.6	6.7
30°-40°	3955.5	11.4
40°-50°	6310.2	18.1
50°-60°	8637.3	24.8
60°-70°	8141.2	23.4
70°-80°	3586.4	10.3
80°-90°	269.8	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°	34801.5	100.0
0°-180°	34801.5	100.0

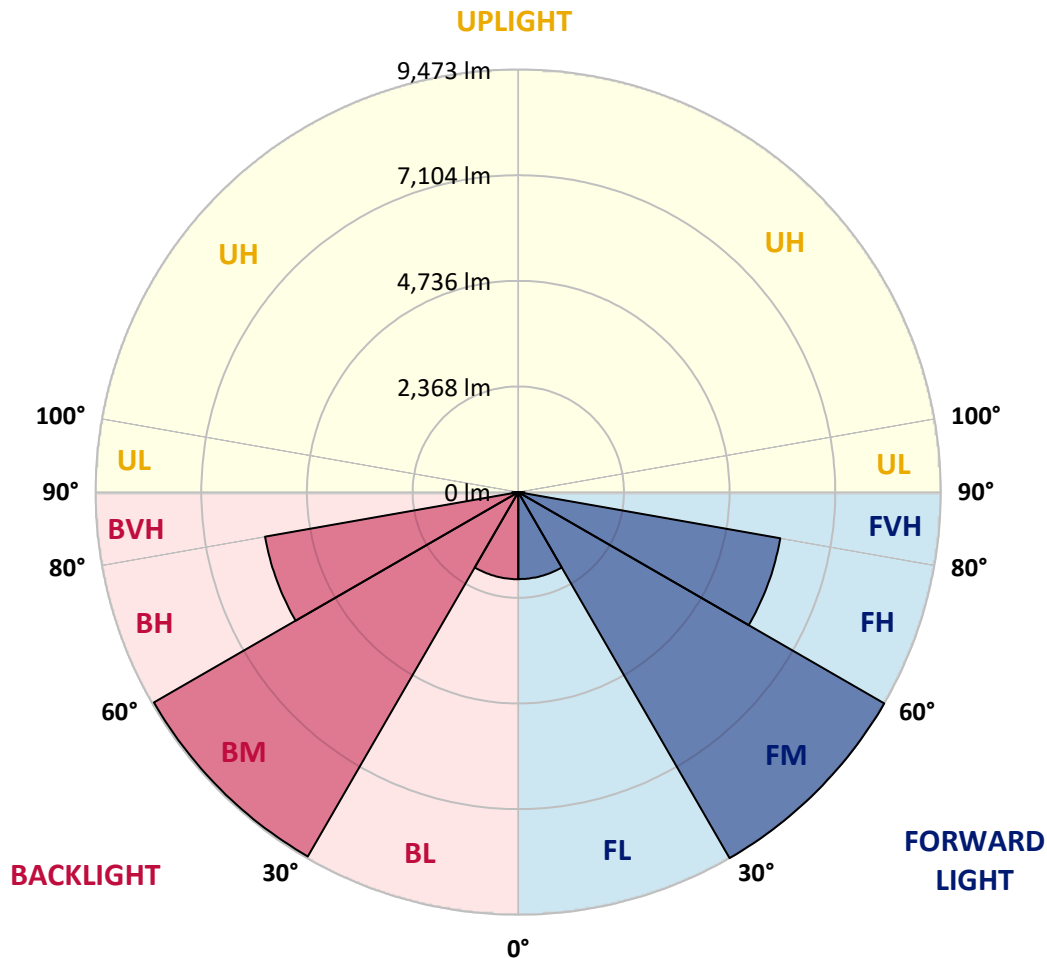


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1949.4	5.6			
FM (30°-60°)	9472.6	27.2			
FH (60°-80°)	5964.6	17.1			G3/7500
FVH (80°-90°)	137.8	0.4			G2/225
BL (0°-30°)	1951.6	5.6	B3/2500		
BM (30°-60°)	9430.3	27.1	B5		
BH (60°-80°)	5763.1	16.6	B5		G5
BVH (80°-90°)	132.0	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°	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6
2.5°	3541.1	3541.1	3537.4	3556.1	3574.9	3582.4	3597.4	3601.1	3623.7	3604.9	3642.4
5°	3529.9	3526.1	3556.1	3601.1	3601.1	3649.9	3679.9	3721.2	3732.4	3754.9	3762.4
7.5°	3608.6	3601.1	3586.1	3634.9	3676.2	3751.2	3792.5	3863.7	3890.0	3920.0	3953.8
10°	3657.4	3657.4	3642.4	3728.7	3766.2	3867.5	3957.5	4028.8	4130.1	4163.8	4167.6
12.5°	3664.9	3676.2	3721.2	3833.7	3938.8	4070.0	4137.6	4272.6	4373.9	4437.7	4460.2
15°	3777.5	3754.9	3803.7	3957.5	4111.3	4227.6	4347.6	4445.2	4591.5	4674.0	4726.5
17.5°	3878.7	3856.2	3946.3	4130.1	4287.6	4467.7	4572.7	4677.7	4782.8	4857.8	4861.5
20°	4040.0	4058.8	4137.6	4336.4	4542.7	4700.2	4820.3	4839.0	4891.6	5000.3	4981.6
22.5°	4238.9	4223.8	4388.9	4606.5	4831.5	4962.8	5030.4	4981.6	4955.3	5071.6	5097.9
25°	4437.7	4482.7	4632.7	4835.3	5105.4	5281.7	5300.4	5165.4	5067.9	5109.1	5097.9
27.5°	4741.5	4749.0	4906.6	5146.6	5420.5	5574.3	5563.0	5371.7	5184.2	5187.9	5195.4
30°	5131.6	5094.1	5266.7	5484.2	5754.3	5893.1	5911.9	5638.0	5386.7	5311.7	5330.4
32.5°	5506.8	5551.8	5701.8	5949.4	6148.2	6227.0	6185.7	5941.9	5615.5	5514.3	5525.5
35°	5986.9	5979.4	6185.7	6395.8	6545.8	6560.8	6527.1	6170.7	5863.1	5731.8	5679.3
37.5°	6500.8	6568.3	6703.4	6875.9	7033.5	7041.0	6857.2	6572.1	6193.2	5975.7	6039.4
40°	7074.8	7149.8	7247.3	7498.6	7614.9	7494.9	7307.3	6921.0	6527.1	6335.8	6365.8
42.5°	7581.2	7614.9	7813.7	8110.1	8166.4	8113.8	7836.2	7367.3	6909.7	6699.6	6714.6
45°	8046.3	8091.3	8350.2	8616.5	8747.8	8657.8	8335.2	7888.8	7356.1	7176.0	7104.8
47.5°	8473.9	8564.0	8815.3	9089.1	9291.7	9299.2	8901.6	8361.4	7798.7	7562.4	7558.7
50°	8762.8	8894.1	9141.7	9453.0	9749.4	9865.6	9468.0	8886.6	8282.6	8031.3	8005.0
52.5°	8920.3	9055.4	9303.0	9786.9	10117.0	10297.0	10109.5	9378.0	8849.1	8586.5	8545.2
55°	8729.0	8819.1	9224.2	9903.2	10413.3	10709.7	10585.9	10057.0	9411.7	9197.9	9235.4
57.5°	7915.0	8102.6	8601.5	9449.3	10405.8	11133.5	11122.3	10698.4	10060.7	9858.1	9865.6
60°	6515.8	6673.4	7288.6	8473.9	9985.7	11306.1	11703.7	11321.1	10788.4	10552.1	10544.6
62.5°	4599.0	4797.8	5510.5	6804.7	8747.8	11066.0	12371.4	12105.1	11501.2	11328.6	11392.4
65°	2573.3	2693.4	3353.6	4523.9	6665.9	9745.6	12491.5	12919.1	12225.1	11962.6	11973.8
67.5°	1376.7	1421.7	1729.3	2374.5	4077.5	7513.6	11279.8	13388.0	13009.1	12555.2	12484.0
70°	945.3	960.3	1039.1	1215.4	1928.1	4493.9	8507.7	12551.5	13598.1	12979.1	13099.2
72.5°	799.0	791.5	810.3	829.0	1009.1	2010.6	4992.8	9659.3	12836.6	12604.0	12559.0
75°	694.0	690.2	697.7	679.0	701.5	885.3	2209.5	6020.7	9396.7	10488.3	10657.1
77.5°	573.9	577.7	581.4	562.7	555.2	585.2	889.0	2644.6	4625.2	5105.4	5506.8
80°	435.1	442.6	472.7	453.9	423.9	427.6	525.2	885.3	1327.9	1204.1	1241.6
82.5°	296.3	300.1	363.9	341.4	318.9	288.8	337.6	457.6	517.7	393.9	345.1
85°	210.1	206.3	236.3	217.6	202.6	146.3	202.6	258.8	311.3	195.1	176.3
87.5°	48.8	48.8	97.5	78.8	75.0	60.0	78.8	101.3	135.0	86.3	78.8
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°	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6	3563.6
2.5°	3631.2	3597.4	3597.4	3589.9	3559.9	3552.4	3526.1	3533.6	3514.9	3496.1
5°	3758.7	3713.7	3713.7	3649.9	3589.9	3582.4	3552.4	3552.4	3522.4	3529.9
7.5°	3935.0	3893.7	3826.2	3770.0	3687.4	3653.7	3597.4	3589.9	3582.4	3567.4
10°	4145.1	4092.6	4025.0	3908.7	3841.2	3777.5	3721.2	3642.4	3623.7	3627.4
12.5°	4430.2	4347.6	4201.3	4100.1	4013.8	3931.3	3848.7	3732.4	3706.2	3717.4
15°	4632.7	4527.7	4381.4	4343.9	4227.6	4126.3	3991.3	3860.0	3815.0	3803.7
17.5°	4797.8	4711.5	4625.2	4569.0	4475.2	4351.4	4163.8	4013.8	3912.5	3901.2
20°	4932.8	4820.3	4801.5	4835.3	4719.0	4636.5	4407.7	4223.8	4088.8	4032.5
22.5°	5015.3	4944.1	4996.6	5026.6	5019.1	4880.3	4644.0	4430.2	4261.4	4208.8
25°	5105.4	5022.8	5210.4	5311.7	5338.0	5109.1	4925.3	4644.0	4478.9	4445.2
27.5°	5150.4	5180.4	5398.0	5611.8	5593.0	5416.7	5169.1	4917.8	4786.5	4726.5
30°	5281.7	5330.4	5660.6	5900.6	5904.4	5731.8	5544.3	5259.2	5112.9	5086.6
32.5°	5518.0	5578.0	5930.6	6185.7	6230.7	6099.4	5911.9	5735.6	5585.5	5525.5
35°	5698.1	5851.9	6249.5	6482.1	6602.1	6523.3	6418.3	6234.5	6076.9	6024.4
37.5°	5956.9	6170.7	6553.3	6868.4	7003.5	6996.0	6917.2	6718.4	6587.1	6542.1
40°	6328.3	6542.1	6890.9	7307.3	7558.7	7547.4	7502.4	7348.6	7153.5	7131.0
42.5°	6722.1	6898.4	7352.3	7828.7	8188.9	8151.3	8031.3	7851.3	7716.2	7686.2
45°	7104.8	7378.6	7798.7	8410.2	8680.3	8774.0	8631.5	8323.9	8170.1	8151.3
47.5°	7584.9	7802.5	8327.7	8875.3	9276.7	9291.7	9047.9	8762.8	8481.5	8541.5
50°	8012.6	8301.4	8834.1	9434.3	9914.4	9741.9	9430.5	9074.1	8871.6	8792.8
52.5°	8470.2	8822.8	9441.8	10053.2	10319.5	10147.0	9640.6	9242.9	8935.3	8901.6
55°	9137.9	9321.7	10132.0	10600.9	10687.2	10323.3	9576.8	9014.1	8616.5	8519.0
57.5°	9816.9	10030.7	10739.7	11144.8	11054.8	10225.8	9164.2	8293.9	7772.5	7633.7
60°	10503.3	10765.9	11362.4	11733.7	11268.6	9554.3	7997.5	6875.9	6268.2	6144.5
62.5°	11268.6	11609.9	12142.6	12273.9	10634.6	8226.4	6347.0	4962.8	4347.6	4141.3
65°	11947.6	12296.4	12952.9	12161.4	9288.0	6137.0	4103.8	2835.9	2382.0	2217.0
67.5°	12506.5	12900.4	13223.0	10762.2	6800.9	3593.6	2138.2	1493.0	1324.2	1264.2
70°	12949.1	13605.6	12097.6	7911.3	3886.2	1751.8	1155.4	982.8	960.3	945.3
72.5°	12562.8	12476.5	9032.9	4565.2	1703.0	964.1	836.5	810.3	806.5	810.3
75°	10274.5	9164.2	5401.7	1984.4	855.3	697.7	694.0	682.7	701.5	701.5
77.5°	4985.3	4358.9	2258.2	851.5	562.7	547.7	566.4	566.4	566.4	566.4
80°	1155.4	1279.2	806.5	517.7	408.9	408.9	450.1	453.9	435.1	427.6
82.5°	393.9	525.2	442.6	326.4	270.1	303.8	341.4	348.9	288.8	292.6
85°	195.1	307.6	240.1	187.6	138.8	187.6	221.3	232.6	198.8	191.3
87.5°	90.0	135.0	90.0	63.8	48.8	67.5	63.8	52.5	30.0	30.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)