

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: P481224

Luminaire Tested: **IFLD-L-SA7B-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481224
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

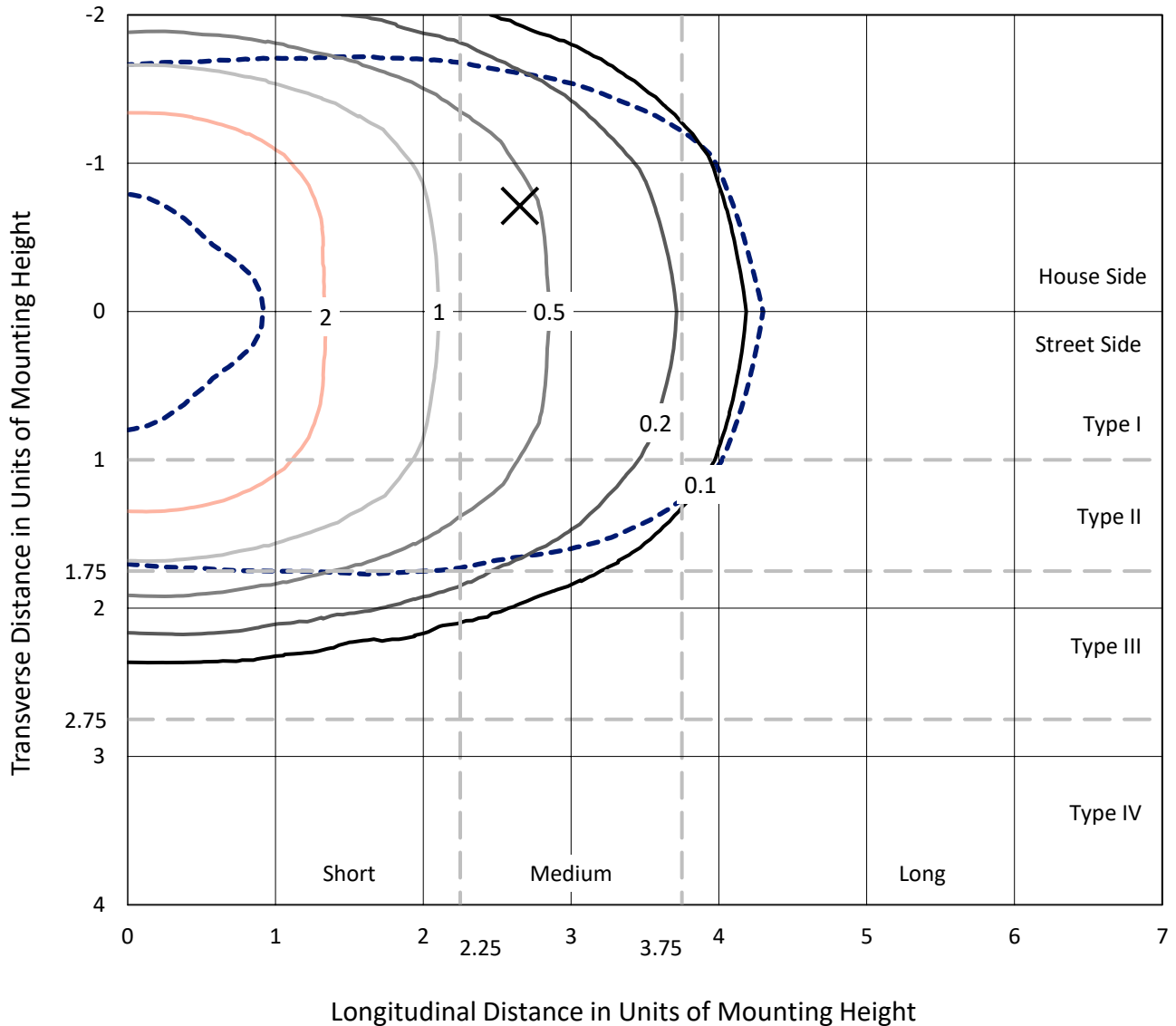
Lumens per Lamp: N/A
Luminaire Lumens: 33402.1 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 281
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

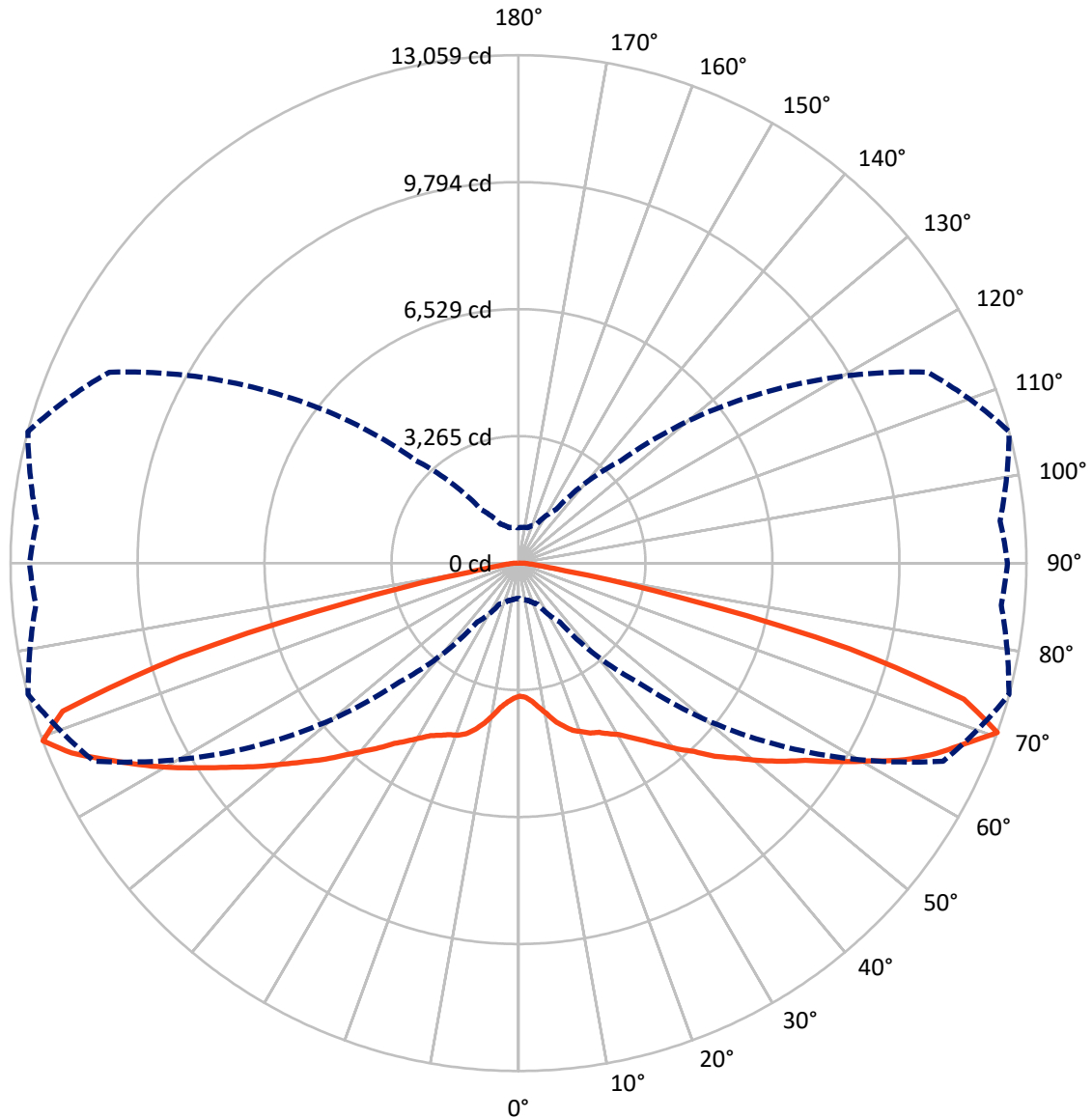
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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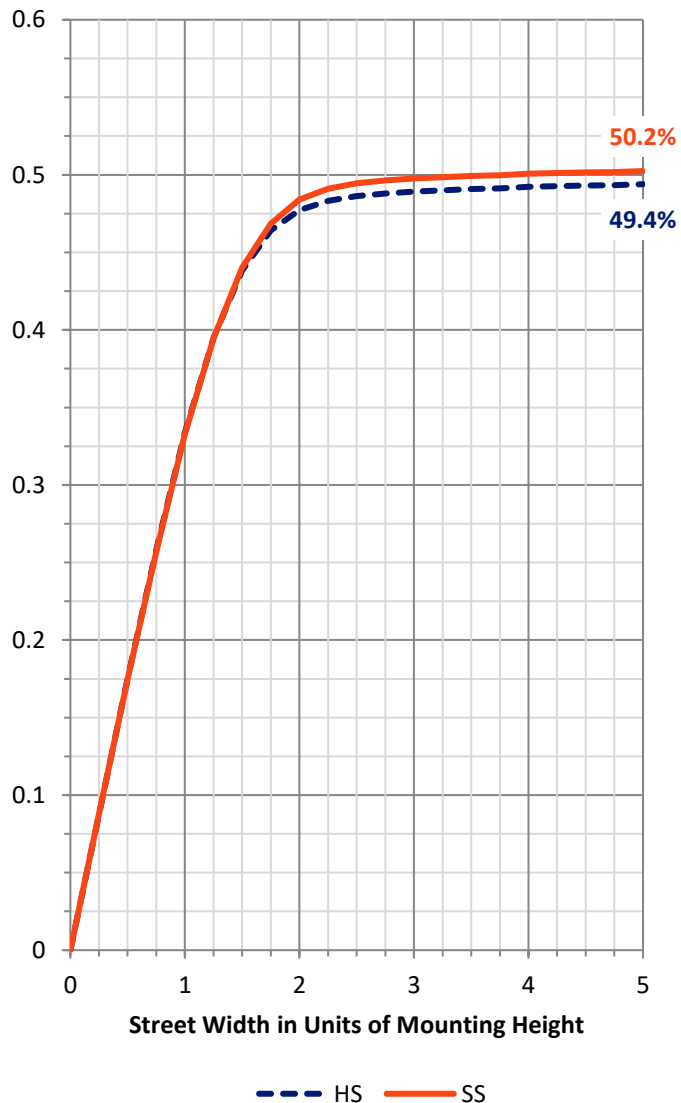
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16582.2	0.0	16582.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16819.9	0.0	16819.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	33402.1	0.0	33402.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	1.0
10°-20°	1159.2	3.5
20°-30°	2244.5	6.7
30°-40°	3796.4	11.4
40°-50°	6056.5	18.1
50°-60°	8290.0	24.8
60°-70°	7813.9	23.4
70°-80°	3442.2	10.3
80°-90°	259.0	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°	33402.1	100.0
0°-180°	33402.1	100.0

Coefficient of Utilization



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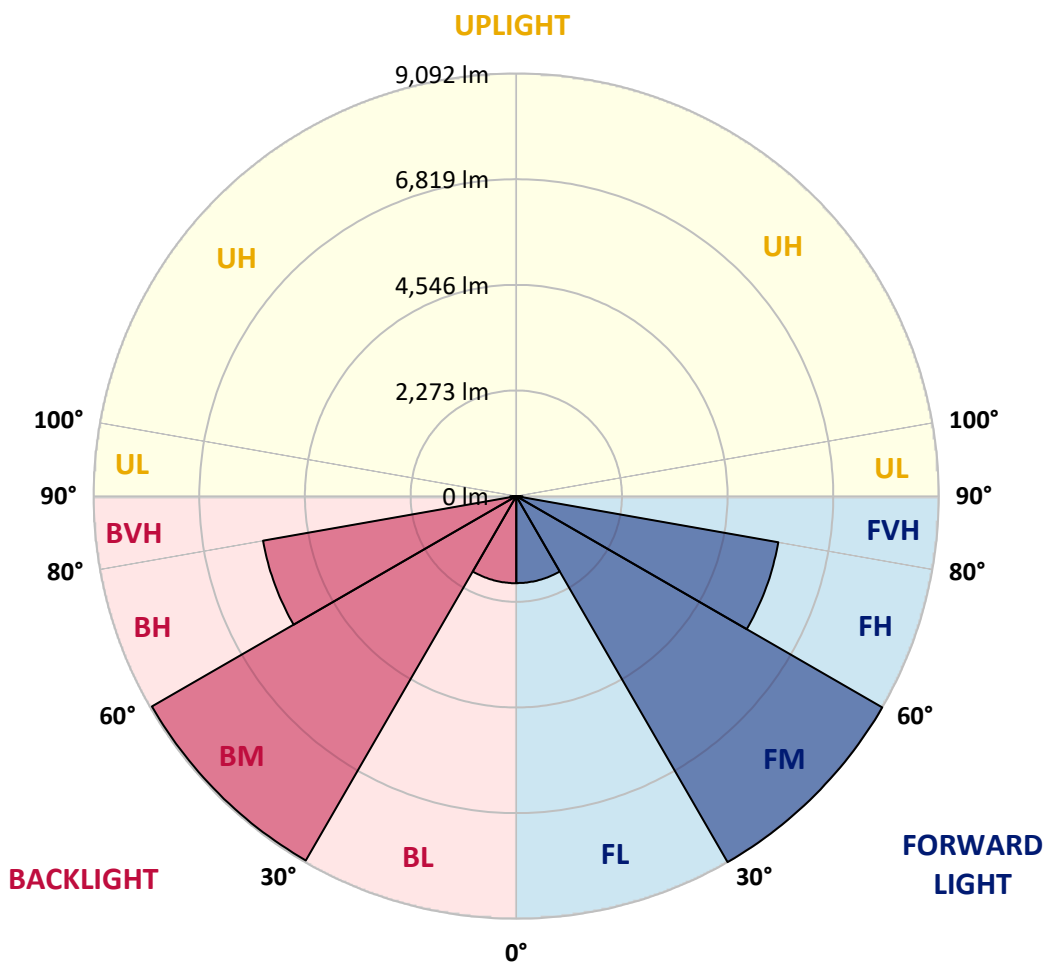
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.1	5.6			
FM (30°-60°)	9091.8	27.2			
FH (60°-80°)	5724.8	17.1			G3/7500
FVH (80°-90°)	132.3	0.4			G2/225
BL (0°-30°)	1873.1	5.6	B3/2500		
BM (30°-60°)	9051.1	27.1	B5		
BH (60°-80°)	5531.3	16.6	B5		G5
BVH (80°-90°)	126.7	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°	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3
2.5°	3398.7	3398.7	3395.1	3413.1	3431.1	3438.3	3452.7	3456.3	3477.9	3459.9	3495.9
5°	3387.9	3384.3	3413.1	3456.3	3456.3	3503.2	3532.0	3571.6	3582.4	3604.0	3611.2
7.5°	3463.5	3456.3	3441.9	3488.7	3528.4	3600.4	3640.0	3708.4	3733.6	3762.4	3794.8
10°	3510.4	3510.4	3495.9	3578.8	3614.8	3712.0	3798.4	3866.8	3964.0	3996.4	4000.0
12.5°	3517.6	3528.4	3571.6	3679.6	3780.4	3906.4	3971.2	4100.8	4198.0	4259.2	4280.8
15°	3625.6	3604.0	3650.8	3798.4	3946.0	4057.6	4172.8	4266.4	4406.8	4486.0	4536.5
17.5°	3722.8	3701.2	3787.6	3964.0	4115.2	4288.0	4388.8	4489.6	4590.5	4662.5	4666.1
20°	3877.6	3895.6	3971.2	4162.0	4360.0	4511.3	4626.5	4644.5	4694.9	4799.3	4781.3
22.5°	4068.4	4054.0	4212.4	4421.2	4637.3	4763.3	4828.1	4781.3	4756.1	4867.7	4892.9
25°	4259.2	4302.4	4446.4	4640.9	4900.1	5069.3	5087.3	4957.7	4864.1	4903.7	4892.9
27.5°	4550.9	4558.1	4709.3	4939.7	5202.5	5350.1	5339.3	5155.7	4975.7	4979.3	4986.5
30°	4925.3	4889.3	5054.9	5263.7	5523.0	5656.2	5674.2	5411.3	5170.1	5098.1	5116.1
32.5°	5285.3	5328.5	5472.5	5710.2	5901.0	5976.6	5937.0	5703.0	5389.7	5292.5	5303.3
35°	5746.2	5739.0	5937.0	6138.6	6282.6	6297.0	6264.6	5922.6	5627.4	5501.3	5450.9
37.5°	6239.4	6304.2	6433.8	6599.5	6750.7	6757.9	6581.5	6307.8	5944.2	5735.4	5796.6
40°	6790.3	6862.3	6955.9	7197.1	7308.7	7193.5	7013.5	6642.7	6264.6	6081.0	6109.8
42.5°	7276.3	7308.7	7499.5	7784.0	7838.0	7787.6	7521.2	7071.1	6631.9	6430.2	6444.6
45°	7722.8	7766.0	8014.4	8270.0	8396.0	8309.6	8000.0	7571.6	7060.3	6887.5	6819.1
47.5°	8133.2	8219.6	8460.8	8723.7	8918.1	8925.3	8543.7	8025.2	7485.1	7258.3	7254.7
50°	8410.4	8536.5	8774.1	9072.9	9357.3	9468.9	9087.3	8529.3	7949.6	7708.4	7683.2
52.5°	8561.7	8691.3	8928.9	9393.3	9710.2	9883.0	9703.0	9000.9	8493.2	8241.2	8201.6
55°	8378.0	8464.4	8853.3	9504.9	9994.6	10279.0	10160.2	9652.6	9033.3	8828.1	8864.1
57.5°	7596.8	7776.8	8255.6	9069.3	9987.4	10685.9	10675.1	10268.2	9656.2	9461.7	9468.9
60°	6253.8	6405.0	6995.5	8133.2	9584.2	10851.5	11233.1	10865.9	10354.6	10127.8	10120.6
62.5°	4414.0	4604.9	5288.9	6531.1	8396.0	10621.1	11874.0	11618.4	11038.7	10873.1	10934.3
65°	2469.8	2585.1	3218.7	4342.0	6397.8	9353.7	11989.2	12399.6	11733.6	11481.5	11492.3
67.5°	1321.3	1364.5	1659.8	2279.0	3913.6	7211.5	10826.3	12849.7	12486.0	12050.4	11982.0
70°	907.3	921.7	997.3	1166.5	1850.6	4313.2	8165.6	12046.8	13051.3	12457.2	12572.5
72.5°	766.9	759.7	777.7	795.7	968.5	1929.8	4792.1	9270.9	12320.4	12097.2	12054.0
75°	666.1	662.5	669.7	651.7	673.3	849.7	2120.6	5778.6	9018.9	10066.6	10228.6
77.5°	550.9	554.5	558.1	540.1	532.9	561.7	853.3	2538.3	4439.2	4900.1	5285.3
80°	417.6	424.8	453.6	435.6	406.8	410.4	504.1	849.7	1274.5	1155.7	1191.7
82.5°	284.4	288.0	349.2	327.6	306.0	277.2	324.0	439.2	496.8	378.0	331.2
85°	201.6	198.0	226.8	208.8	194.4	140.4	194.4	248.4	298.8	187.2	169.2
87.5°	46.8	46.8	93.6	75.6	72.0	57.6	75.6	97.2	129.6	82.8	75.6
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°	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3	3420.3
2.5°	3485.1	3452.7	3452.7	3445.5	3416.7	3409.5	3384.3	3391.5	3373.5	3355.5
5°	3607.6	3564.4	3564.4	3503.2	3445.5	3438.3	3409.5	3409.5	3380.7	3387.9
7.5°	3776.8	3737.2	3672.4	3618.4	3539.2	3506.8	3452.7	3445.5	3438.3	3423.9
10°	3978.4	3928.0	3863.2	3751.6	3686.8	3625.6	3571.6	3495.9	3477.9	3481.5
12.5°	4252.0	4172.8	4032.4	3935.2	3852.4	3773.2	3694.0	3582.4	3557.2	3568.0
15°	4446.4	4345.6	4205.2	4169.2	4057.6	3960.4	3830.8	3704.8	3661.6	3650.8
17.5°	4604.9	4522.1	4439.2	4385.2	4295.2	4176.4	3996.4	3852.4	3755.2	3744.4
20°	4734.5	4626.5	4608.5	4640.9	4529.3	4450.0	4230.4	4054.0	3924.4	3870.4
22.5°	4813.7	4745.3	4795.7	4824.5	4817.3	4684.1	4457.2	4252.0	4090.0	4039.6
25°	4900.1	4820.9	5000.9	5098.1	5123.3	4903.7	4727.3	4457.2	4298.8	4266.4
27.5°	4943.3	4972.1	5180.9	5386.1	5368.1	5198.9	4961.3	4720.1	4594.1	4536.5
30°	5069.3	5116.1	5432.9	5663.4	5667.0	5501.3	5321.3	5047.7	4907.3	4882.1
32.5°	5296.1	5353.7	5692.2	5937.0	5980.2	5854.2	5674.2	5505.0	5360.9	5303.3
35°	5468.9	5616.6	5998.2	6221.4	6336.6	6261.0	6160.2	5983.8	5832.6	5782.2
37.5°	5717.4	5922.6	6289.8	6592.3	6721.9	6714.7	6639.1	6448.2	6322.2	6279.0
40°	6073.8	6279.0	6613.9	7013.5	7254.7	7243.9	7200.7	7053.1	6865.9	6844.3
42.5°	6451.8	6621.1	7056.7	7514.0	7859.6	7823.6	7708.4	7535.6	7405.9	7377.1
45°	6819.1	7081.9	7485.1	8072.0	8331.2	8421.2	8284.4	7989.2	7841.6	7823.6
47.5°	7279.9	7488.7	7992.8	8518.5	8903.7	8918.1	8684.1	8410.4	8140.4	8198.0
50°	7690.4	7967.6	8478.8	9054.9	9515.8	9350.1	9051.3	8709.3	8514.9	8439.2
52.5°	8129.6	8468.0	9062.1	9649.0	9904.6	9739.0	9252.9	8871.3	8576.1	8543.7
55°	8770.5	8946.9	9724.6	10174.6	10257.4	9908.2	9191.7	8651.7	8270.0	8176.4
57.5°	9422.1	9627.4	10307.8	10696.7	10610.3	9814.6	8795.7	7960.4	7459.9	7326.7
60°	10081.0	10333.0	10905.5	11261.9	10815.5	9170.1	7676.0	6599.5	6016.2	5897.4
62.5°	10815.5	11143.1	11654.4	11780.4	10207.0	7895.6	6091.8	4763.3	4172.8	3974.8
65°	11467.1	11802.0	12432.0	11672.4	8914.5	5890.2	3938.8	2721.9	2286.2	2127.8
67.5°	12003.6	12381.6	12691.3	10329.4	6527.5	3449.1	2052.2	1432.9	1270.9	1213.3
70°	12428.4	13058.5	11611.2	7593.2	3730.0	1681.4	1108.9	943.3	921.7	907.3
72.5°	12057.6	11974.8	8669.7	4381.6	1634.6	925.3	802.9	777.7	774.1	777.7
75°	9861.4	8795.7	5184.5	1904.6	820.9	669.7	666.1	655.3	673.3	673.3
77.5°	4784.9	4183.6	2167.4	817.3	540.1	525.7	543.7	543.7	543.7	543.7
80°	1108.9	1227.7	774.1	496.8	392.4	392.4	432.0	435.6	417.6	410.4
82.5°	378.0	504.1	424.8	313.2	259.2	291.6	327.6	334.8	277.2	280.8
85°	187.2	295.2	230.4	180.0	133.2	180.0	212.4	223.2	190.8	183.6
87.5°	86.4	129.6	86.4	61.2	46.8	64.8	61.2	50.4	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)