

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: P481229

Luminaire Tested: **IFLD-L-SA8B-730-U-RW**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481229  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

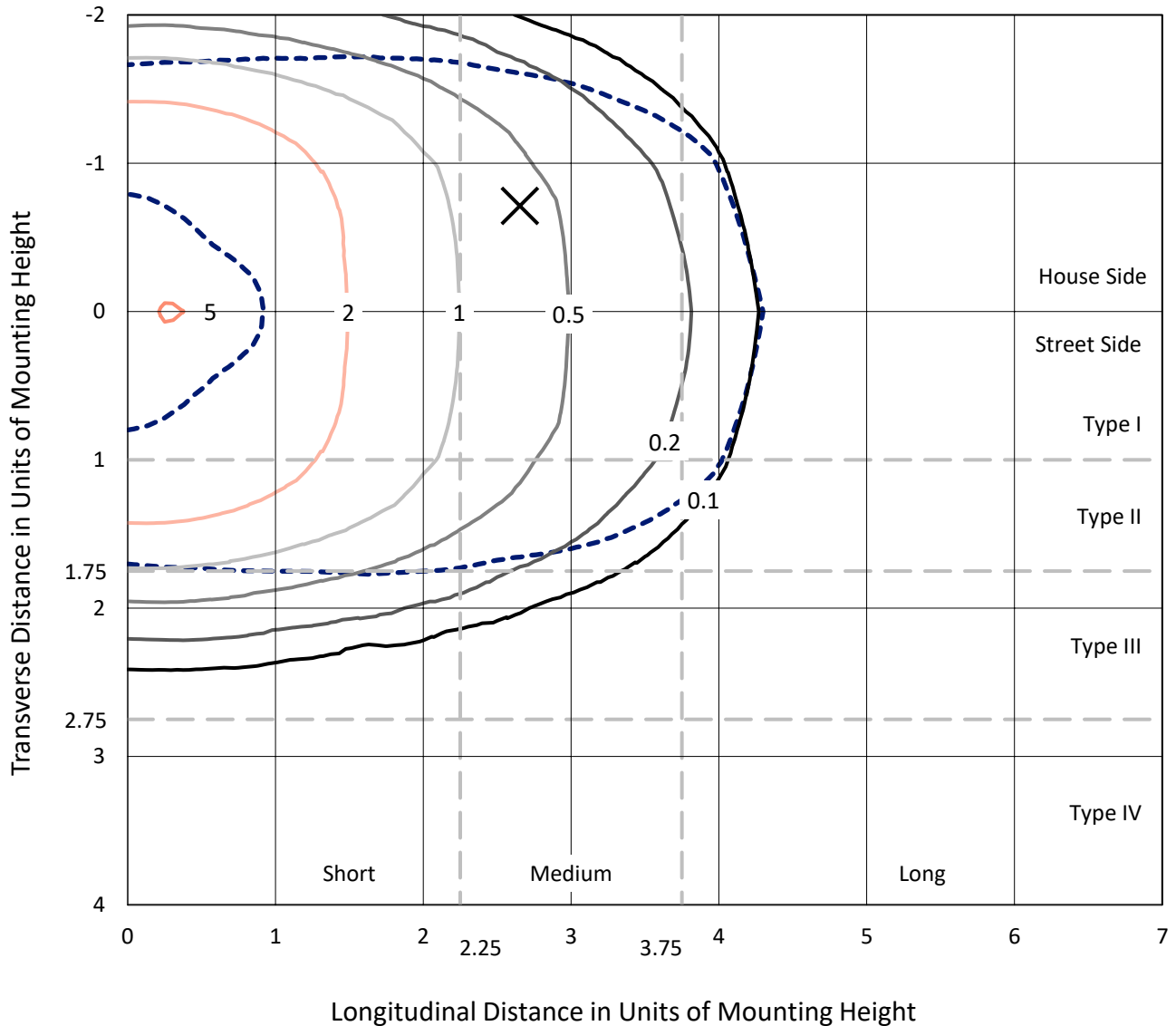
Lumens per Lamp: N/A  
Luminaire Lumens: 38173 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 320  
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

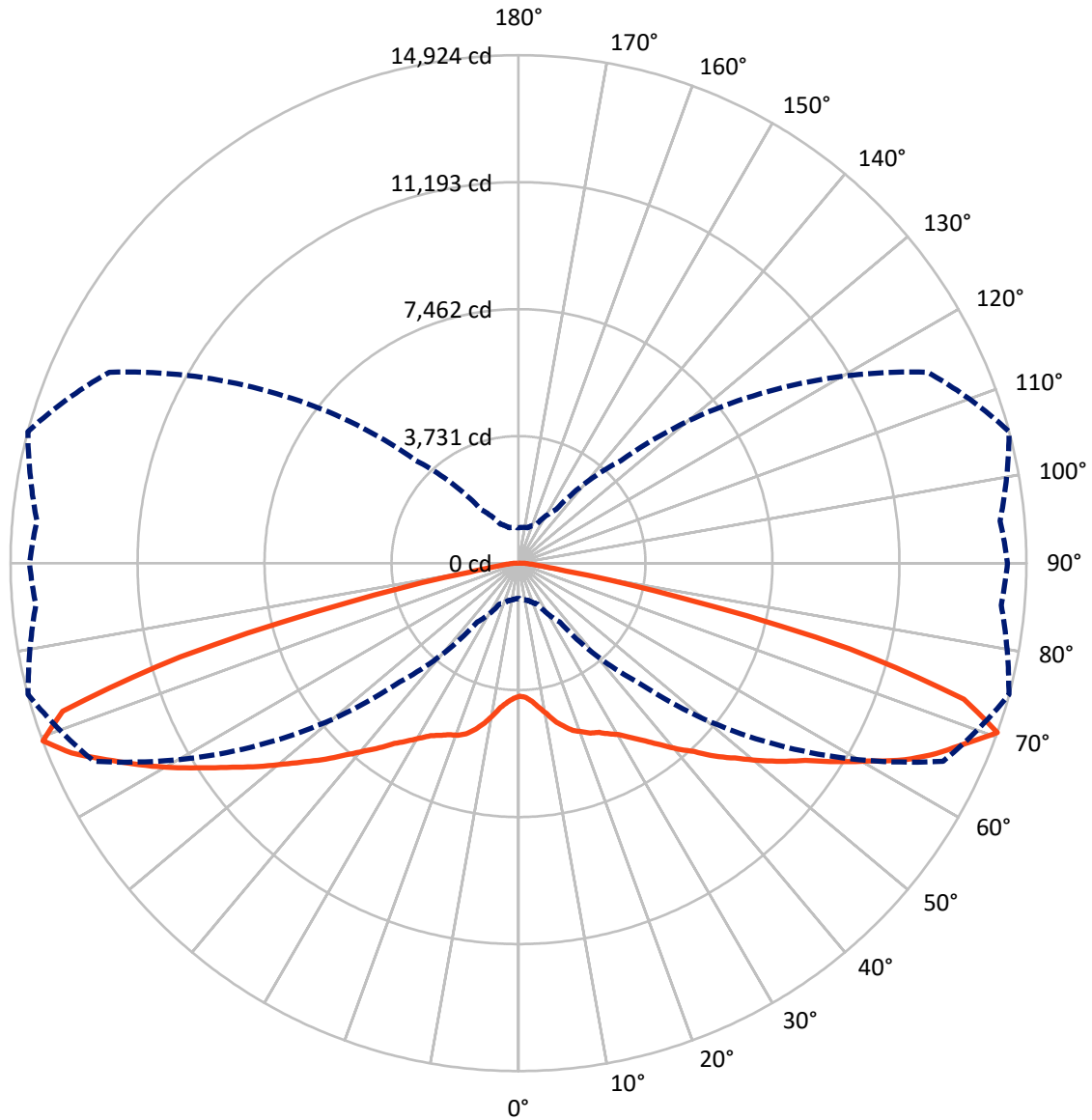
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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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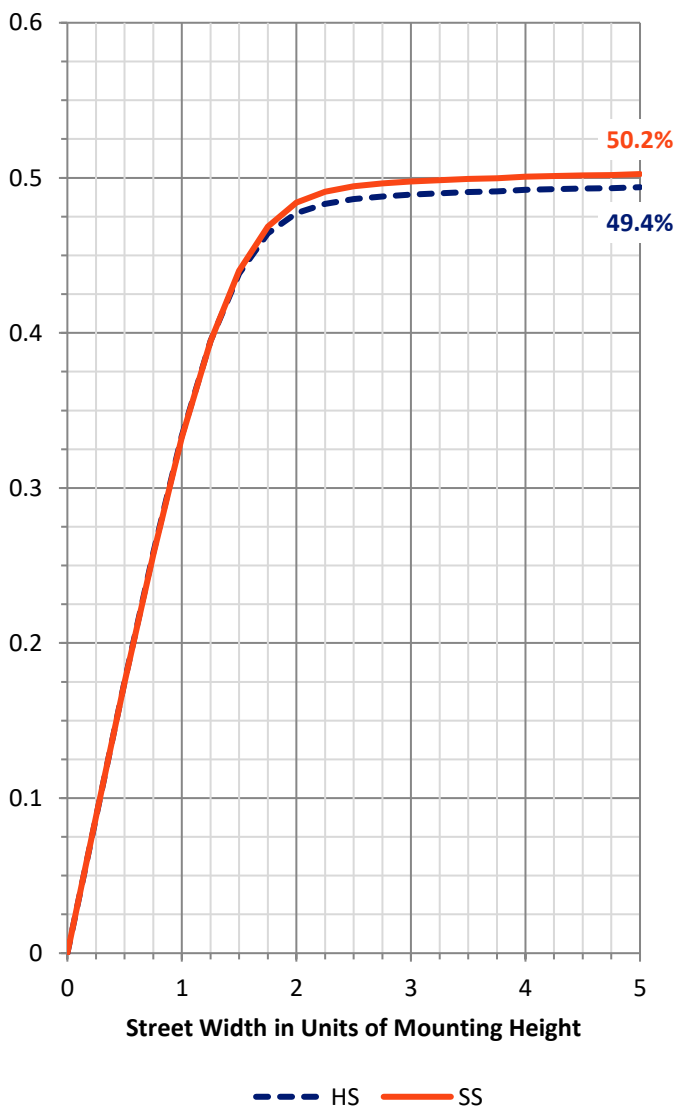
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18950.7	0.0	18950.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	19222.3	0.0	19222.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	38173.0	0.0	38173.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.1	1.0
10°-20°	1324.7	3.5
20°-30°	2565.1	6.7
30°-40°	4338.7	11.4
40°-50°	6921.5	18.1
50°-60°	9474.1	24.8
60°-70°	8929.9	23.4
70°-80°	3933.9	10.3
80°-90°	296.0	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°	38173.0	100.0
0°-180°	38173.0	100.0

**Coefficient of Utilization**



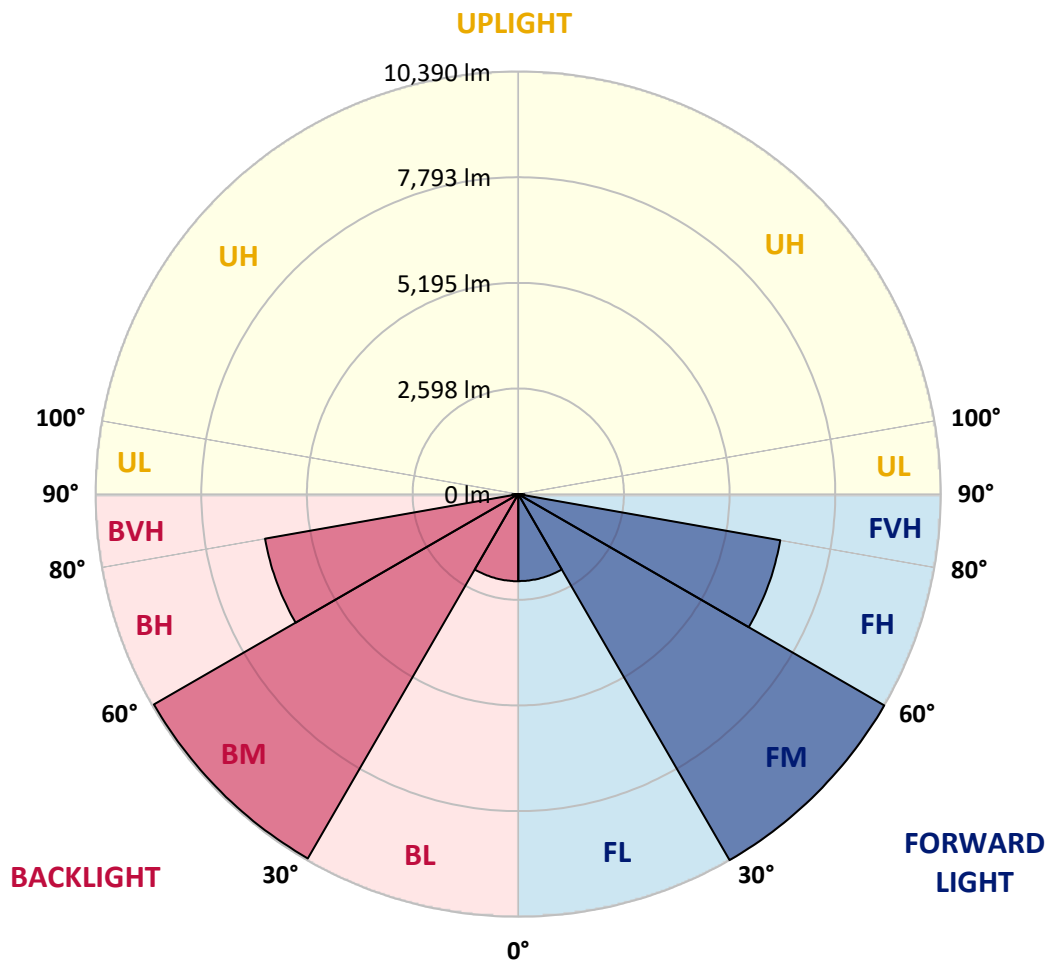
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2138.3	5.6			
FM (30°-60°)	10390.4	27.2			
FH (60°-80°)	6542.4	17.1			G3/7500
FVH (80°-90°)	151.2	0.4			G2/225
BL (0°-30°)	2140.6	5.6	B3/2500		
BM (30°-60°)	10343.9	27.1	B5		
BH (60°-80°)	6321.4	16.6	B5		G5
BVH (80°-90°)	144.8	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°	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9
2.5°	3884.2	3884.2	3880.1	3900.7	3921.2	3929.5	3945.9	3950.0	3974.7	3954.1	3995.3
5°	3871.9	3867.7	3900.7	3950.0	3950.0	4003.5	4036.4	4081.7	4094.0	4118.7	4127.0
7.5°	3958.3	3950.0	3933.6	3987.1	4032.3	4114.6	4159.9	4238.1	4266.9	4299.8	4336.8
10°	4011.7	4011.7	3995.3	4089.9	4131.1	4242.2	4340.9	4419.1	4530.2	4567.2	4571.3
12.5°	4020.0	4032.3	4081.7	4205.1	4320.3	4464.4	4538.4	4686.5	4797.6	4867.6	4892.3
15°	4143.4	4118.7	4172.2	4340.9	4509.6	4637.2	4768.8	4875.8	5036.3	5126.8	5184.4
17.5°	4254.5	4229.8	4328.6	4530.2	4703.0	4900.5	5015.7	5130.9	5246.1	5328.4	5332.5
20°	4431.4	4452.0	4538.4	4756.5	4982.8	5155.6	5287.3	5307.8	5365.5	5484.8	5464.2
22.5°	4649.5	4633.1	4814.1	5052.7	5299.6	5443.6	5517.7	5464.2	5435.4	5563.0	5591.8
25°	4867.6	4917.0	5081.5	5303.7	5600.0	5793.4	5813.9	5665.8	5558.8	5604.1	5591.8
27.5°	5200.9	5209.1	5381.9	5645.2	5945.6	6114.3	6102.0	5892.1	5686.4	5690.5	5698.7
30°	5628.8	5587.6	5776.9	6015.6	6311.8	6464.1	6484.6	6184.3	5908.6	5826.3	5846.9
32.5°	6040.3	6089.6	6254.2	6525.8	6743.8	6830.3	6785.0	6517.5	6159.6	6048.5	6060.8
35°	6566.9	6558.7	6785.0	7015.4	7180.0	7196.5	7159.4	6768.5	6431.1	6287.1	6229.5
37.5°	7130.6	7204.7	7352.8	7542.1	7714.9	7723.1	7521.5	7208.8	6793.2	6554.6	6624.5
40°	7760.2	7842.5	7949.4	8225.1	8352.7	8221.0	8015.3	7591.5	7159.4	6949.6	6982.5
42.5°	8315.6	8352.7	8570.7	8895.8	8957.5	8899.9	8595.4	8081.1	7579.1	7348.7	7365.2
45°	8825.8	8875.2	9159.1	9451.3	9595.3	9496.5	9142.7	8653.0	8068.8	7871.3	7793.1
47.5°	9294.9	9393.7	9669.3	9969.7	10191.9	10200.1	9764.0	9171.5	8554.3	8295.1	8290.9
50°	9611.7	9755.7	10027.3	10368.8	10693.9	10821.4	10385.3	9747.5	9085.1	8809.4	8780.6
52.5°	9784.5	9932.7	10204.2	10735.0	11097.1	11294.6	11088.9	10286.5	9706.4	9418.3	9373.1
55°	9574.7	9673.5	10117.8	10862.6	11422.2	11747.2	11611.4	11031.3	10323.6	10089.0	10130.2
57.5°	8681.8	8887.6	9434.8	10364.7	11413.9	12212.2	12199.8	11734.9	11035.4	10813.2	10821.4
60°	7147.1	7319.9	7994.7	9294.9	10953.1	12401.4	12837.6	12417.9	11833.6	11574.4	11566.2
62.5°	5044.5	5262.6	6044.4	7463.9	9595.3	12138.1	13570.0	13277.9	12615.4	12426.1	12496.1
65°	2822.6	2954.3	3678.5	4962.2	7311.7	10689.8	13701.7	14170.7	13409.5	13121.5	13133.8
67.5°	1510.1	1559.4	1896.8	2604.5	4472.6	8241.6	12372.6	14685.1	14269.5	13771.6	13693.4
70°	1036.9	1053.3	1139.7	1333.1	2114.9	4929.3	9331.9	13767.5	14915.5	14236.6	14368.2
72.5°	876.4	868.2	888.8	909.3	1106.8	2205.4	5476.5	10595.1	14080.2	13825.1	13775.7
75°	761.2	757.1	765.3	744.7	769.4	971.0	2423.5	6604.0	10307.1	11504.5	11689.6
77.5°	629.5	633.7	637.8	617.2	609.0	641.9	975.2	2900.8	5073.3	5600.0	6040.3
80°	477.3	485.5	518.4	497.9	465.0	469.1	576.0	971.0	1456.6	1320.8	1361.9
82.5°	325.1	329.2	399.1	374.4	349.7	316.8	370.3	502.0	567.8	432.0	378.5
85°	230.4	226.3	259.2	238.6	222.2	160.5	222.2	283.9	341.5	214.0	193.4
87.5°	53.5	53.5	107.0	86.4	82.3	65.8	86.4	111.1	148.1	94.6	86.4
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°	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9	3908.9
2.5°	3982.9	3945.9	3945.9	3937.7	3904.8	3896.5	3867.7	3876.0	3855.4	3834.8
5°	4122.8	4073.5	4073.5	4003.5	3937.7	3929.5	3896.5	3896.5	3863.6	3871.9
7.5°	4316.2	4271.0	4196.9	4135.2	4044.7	4007.6	3945.9	3937.7	3929.5	3913.0
10°	4546.6	4489.0	4415.0	4287.4	4213.4	4143.4	4081.7	3995.3	3974.7	3978.8
12.5°	4859.4	4768.8	4608.4	4497.3	4402.6	4312.1	4221.6	4094.0	4065.2	4077.6
15°	5081.5	4966.3	4805.9	4764.7	4637.2	4526.1	4377.9	4233.9	4184.6	4172.2
17.5°	5262.6	5168.0	5073.3	5011.6	4908.7	4773.0	4567.2	4402.6	4291.5	4279.2
20°	5410.7	5287.3	5266.7	5303.7	5176.2	5085.7	4834.7	4633.1	4484.9	4423.2
22.5°	5501.2	5423.1	5480.7	5513.6	5505.4	5353.1	5093.9	4859.4	4674.2	4616.6
25°	5600.0	5509.5	5715.2	5826.3	5855.1	5604.1	5402.5	5093.9	4912.8	4875.8
27.5°	5649.4	5682.3	5920.9	6155.5	6134.9	5941.5	5669.9	5394.3	5250.2	5184.4
30°	5793.4	5846.9	6208.9	6472.3	6476.4	6287.1	6081.4	5768.7	5608.2	5579.4
32.5°	6052.6	6118.4	6505.2	6785.0	6834.4	6690.4	6484.6	6291.2	6126.7	6060.8
35°	6250.1	6418.8	6854.9	7110.0	7241.7	7155.3	7040.1	6838.5	6665.7	6608.1
37.5°	6534.0	6768.5	7188.2	7533.9	7682.0	7673.8	7587.3	7369.3	7225.3	7175.9
40°	6941.4	7175.9	7558.5	8015.3	8290.9	8278.6	8229.2	8060.5	7846.6	7821.9
42.5°	7373.4	7566.8	8064.6	8587.2	8982.2	8941.1	8809.4	8611.9	8463.8	8430.8
45°	7793.1	8093.4	8554.3	9225.0	9521.2	9624.1	9467.7	9130.3	8961.6	8941.1
47.5°	8319.7	8558.4	9134.4	9735.2	10175.4	10191.9	9924.4	9611.7	9303.1	9369.0
50°	8788.8	9105.6	9689.9	10348.2	10874.9	10685.6	10344.1	9953.2	9731.1	9644.7
52.5°	9290.8	9677.6	10356.5	11027.2	11319.3	11130.0	10574.6	10138.4	9801.0	9764.0
55°	10023.2	10224.8	11113.6	11627.9	11722.5	11323.4	10504.6	9887.4	9451.3	9344.3
57.5°	10767.9	11002.5	11780.1	12224.5	12125.8	11216.4	10052.0	9097.4	8525.5	8373.2
60°	11520.9	11808.9	12463.2	12870.5	12360.3	10479.9	8772.4	7542.1	6875.5	6739.7
62.5°	12360.3	12734.7	13319.0	13463.0	11664.9	9023.3	6961.9	5443.6	4768.8	4542.5
65°	13105.0	13487.7	14207.8	13339.6	10187.8	6731.5	4501.4	3110.6	2612.8	2431.7
67.5°	13718.1	14150.2	14504.0	11804.8	7459.8	3941.8	2345.3	1637.6	1452.5	1386.6
70°	14203.6	14923.7	13269.6	8677.7	4262.7	1921.5	1267.3	1078.0	1053.3	1036.9
72.5°	13779.8	13685.2	9908.0	5007.5	1868.0	1057.5	917.6	888.8	884.6	888.8
75°	11269.9	10052.0	5925.0	2176.6	938.1	765.3	761.2	748.9	769.4	769.4
77.5°	5468.3	4781.2	2477.0	934.0	617.2	600.7	621.3	621.3	621.3	621.3
80°	1267.3	1403.1	884.6	567.8	448.5	448.5	493.8	497.9	477.3	469.1
82.5°	432.0	576.0	485.5	358.0	296.3	333.3	374.4	382.7	316.8	320.9
85°	214.0	337.4	263.3	205.7	152.2	205.7	242.8	255.1	218.1	209.8
87.5°	98.8	148.1	98.8	69.9	53.5	74.1	69.9	57.6	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)