

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: P481331

Luminaire Tested: **IFLD-S-SA6B-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481331
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

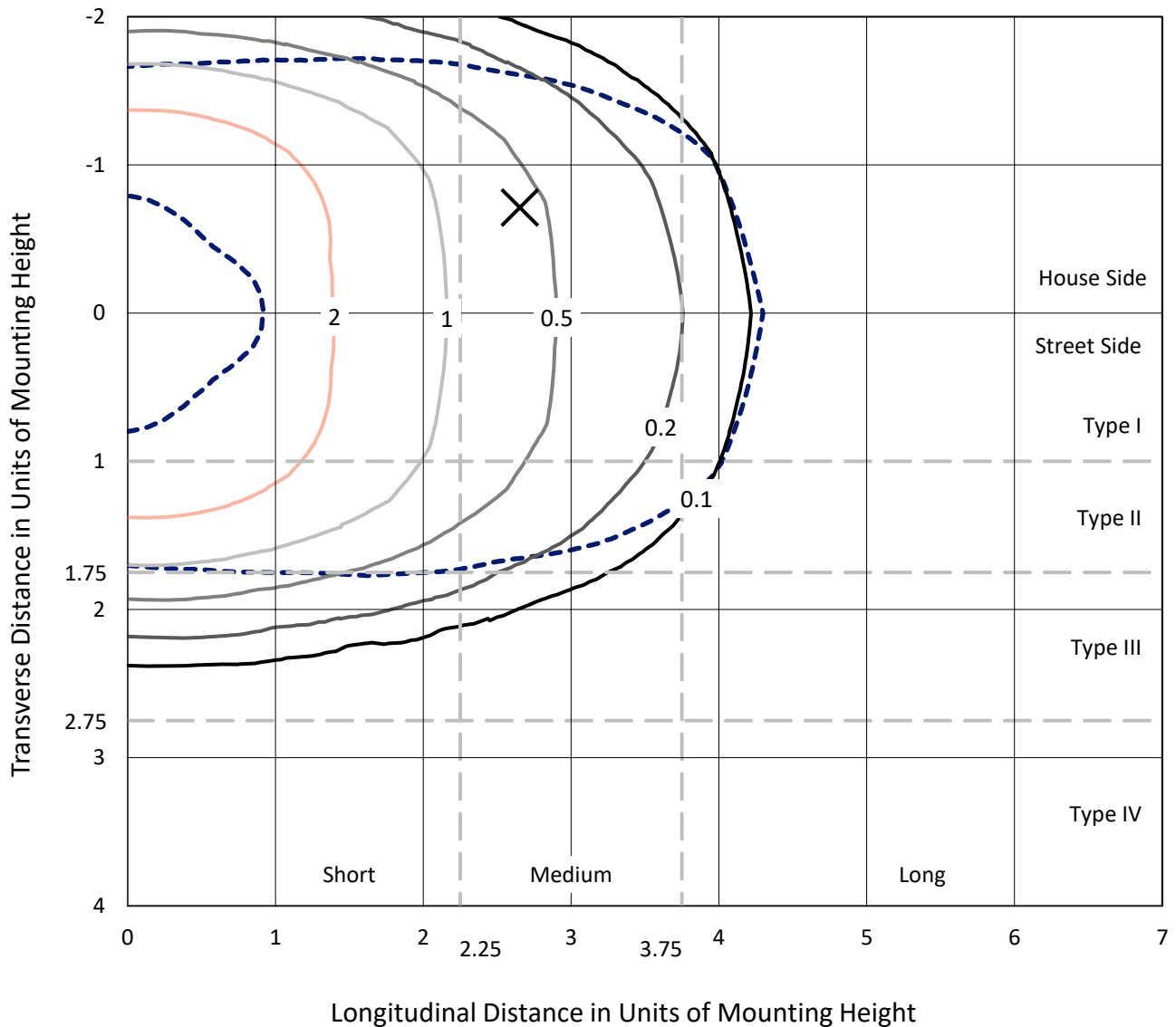
Lumens per Lamp: N/A
Luminaire Lumens: 35169.3 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 244.9
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

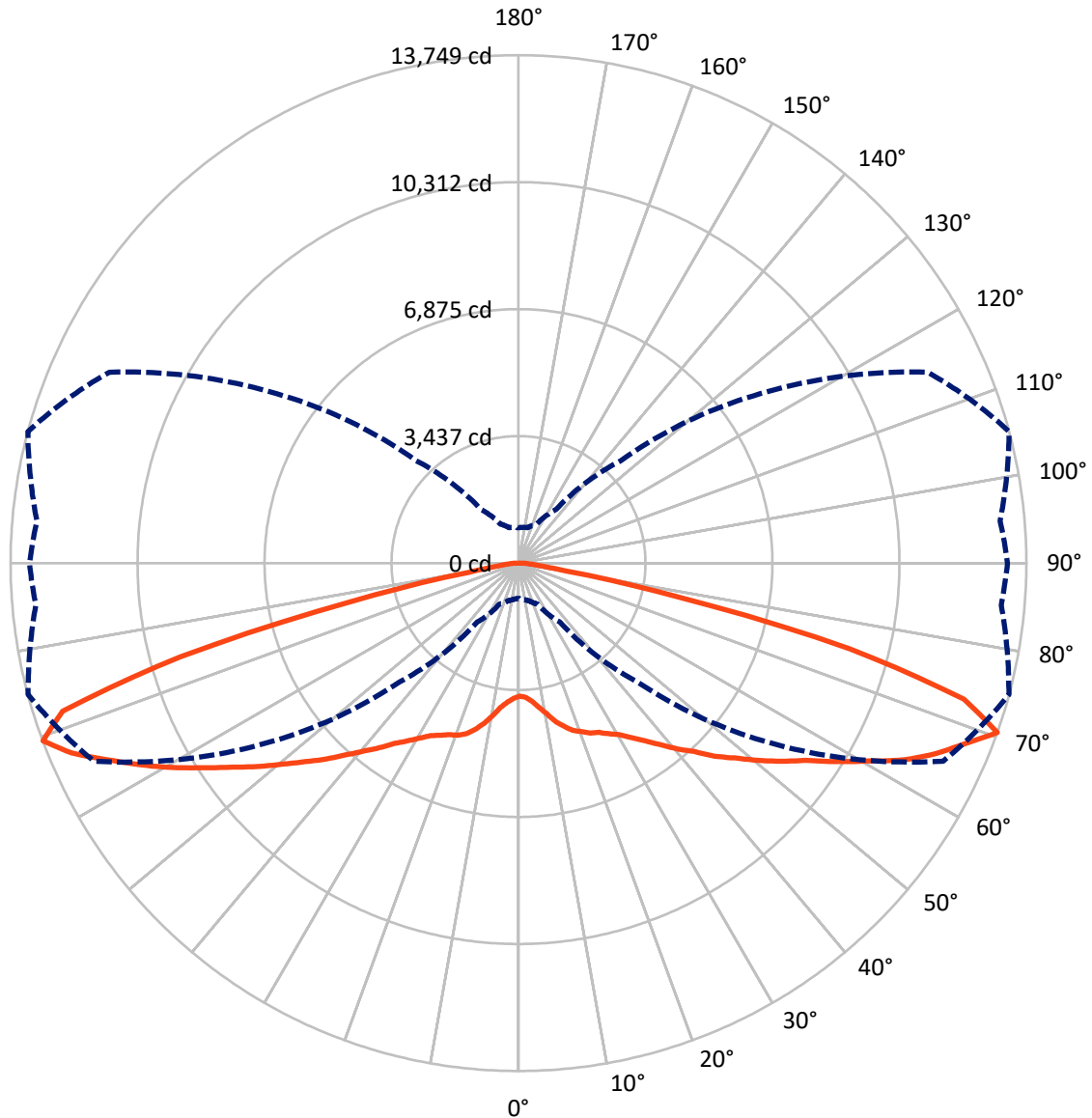
× Max cd
 - - - 1/2 Max cd



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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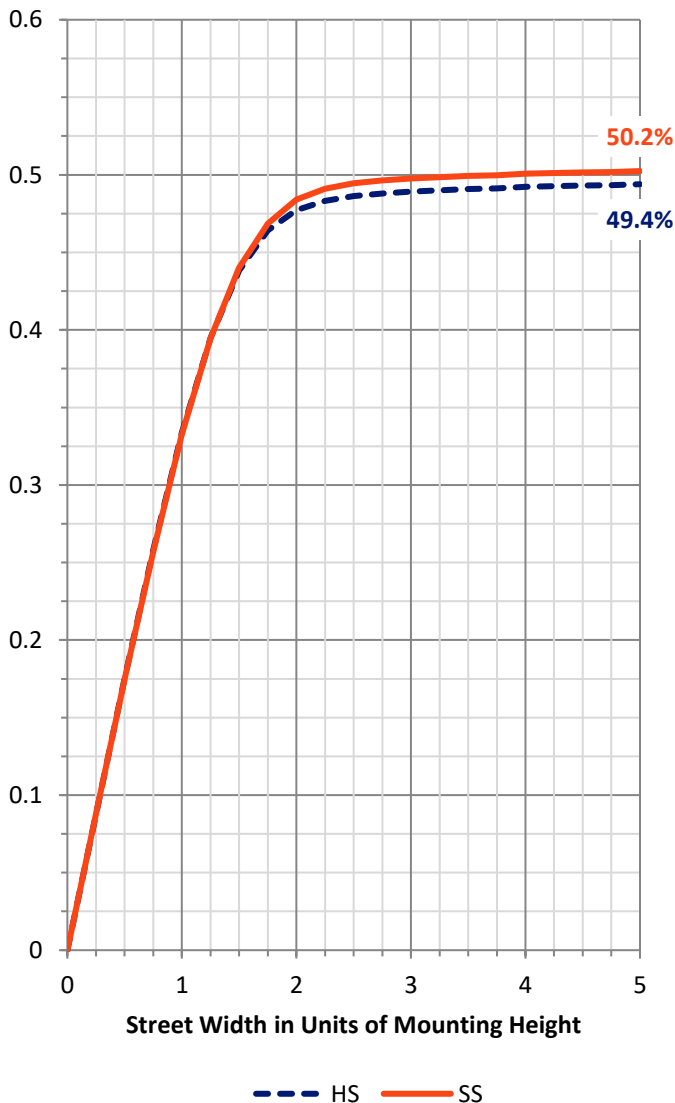
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17459.6	0.0	17459.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17709.8	0.0	17709.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	35169.3	0.0	35169.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	1.0
10°-20°	1220.5	3.5
20°-30°	2363.3	6.7
30°-40°	3997.3	11.4
40°-50°	6376.9	18.1
50°-60°	8728.6	24.8
60°-70°	8227.3	23.4
70°-80°	3624.3	10.3
80°-90°	272.7	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°	35169.3	100.0
0°-180°	35169.3	100.0

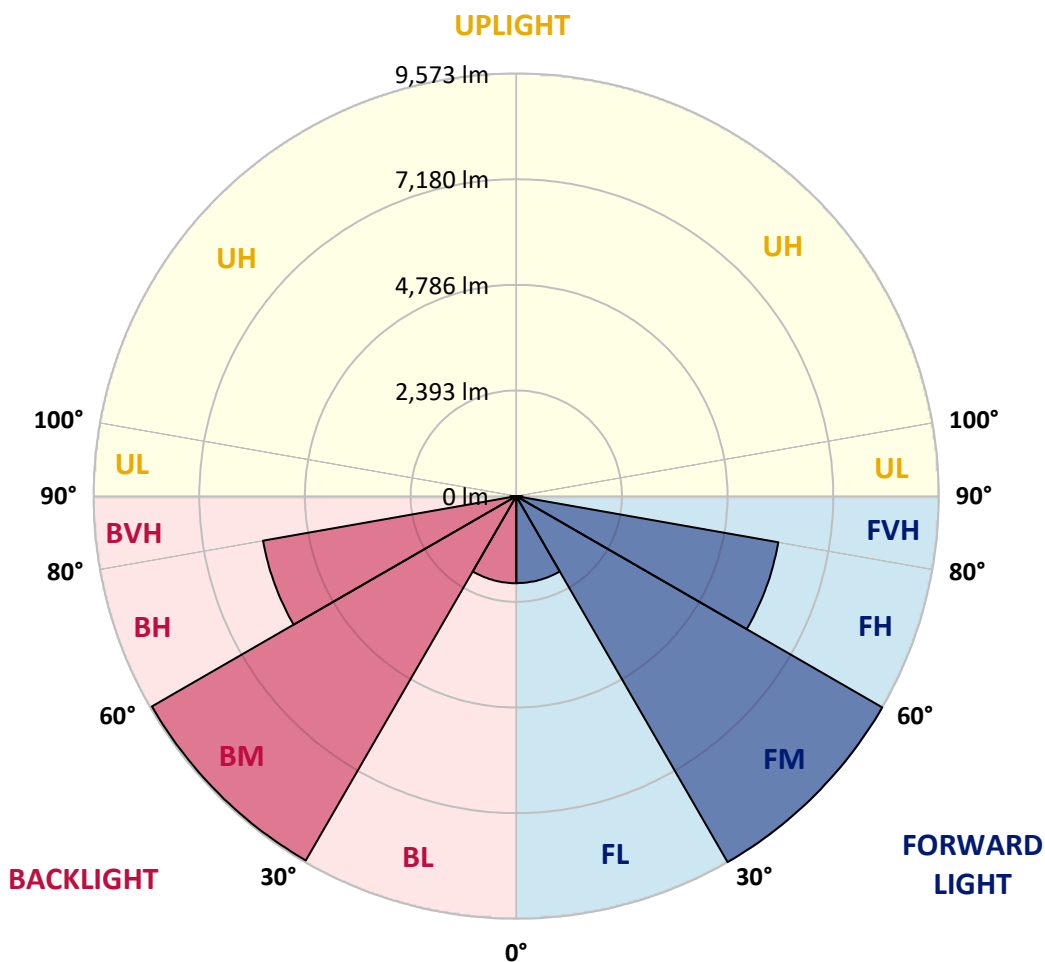


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.0	5.6			
FM (30°-60°)	9572.8	27.2			
FH (60°-80°)	6027.6	17.1			G3/7500
FVH (80°-90°)	139.3	0.4			G2/225
BL (0°-30°)	1972.2	5.6	B3/2500		
BM (30°-60°)	9530.0	27.1	B5		
BH (60°-80°)	5824.0	16.6	B5		G5
BVH (80°-90°)	133.4	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°	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3
2.5°	3578.6	3578.6	3574.8	3593.7	3612.7	3620.3	3635.4	3639.2	3662.0	3643.0	3680.9
5°	3567.2	3563.4	3593.7	3639.2	3639.2	3688.5	3718.8	3760.5	3771.9	3794.6	3802.2
7.5°	3646.8	3639.2	3624.0	3673.3	3715.0	3790.8	3832.5	3904.6	3931.1	3961.4	3995.6
10°	3696.1	3696.1	3680.9	3768.1	3806.0	3908.4	3999.3	4071.4	4173.7	4207.8	4211.6
12.5°	3703.7	3715.0	3760.5	3874.2	3980.4	4113.1	4181.3	4317.8	4420.1	4484.6	4507.3
15°	3817.4	3794.6	3843.9	3999.3	4154.8	4272.3	4393.6	4492.2	4640.0	4723.4	4776.5
17.5°	3919.7	3897.0	3988.0	4173.7	4332.9	4514.9	4621.0	4727.2	4833.3	4909.1	4912.9
20°	4082.7	4101.7	4181.3	4382.2	4590.7	4749.9	4871.2	4890.2	4943.3	5053.2	5034.2
22.5°	4283.7	4268.5	4435.3	4655.2	4882.6	5015.3	5083.5	5034.2	5007.7	5125.2	5151.8
25°	4484.6	4530.1	4681.7	4886.4	5159.3	5337.5	5356.5	5220.0	5121.4	5163.1	5151.8
27.5°	4791.6	4799.2	4958.4	5201.0	5477.8	5633.2	5621.8	5428.5	5238.9	5242.7	5250.3
30°	5185.9	5148.0	5322.3	5542.2	5815.2	5955.4	5974.4	5697.6	5443.7	5367.8	5386.8
32.5°	5565.0	5610.5	5762.1	6012.3	6213.2	6292.8	6251.1	6004.7	5674.9	5572.5	5583.9
35°	6050.2	6042.6	6251.1	6463.4	6615.0	6630.2	6596.1	6235.9	5925.1	5792.4	5739.3
37.5°	6569.5	6637.8	6774.2	6948.6	7107.8	7115.4	6929.7	6641.6	6258.7	6038.8	6103.3
40°	7149.5	7225.4	7323.9	7577.9	7695.4	7574.1	7384.6	6994.1	6596.1	6402.7	6433.1
42.5°	7661.3	7695.4	7896.3	8195.8	8252.7	8199.6	7919.1	7445.2	6982.7	6770.5	6785.6
45°	8131.4	8176.9	8438.4	8707.6	8840.3	8749.3	8423.3	7972.2	7433.8	7251.9	7179.9
47.5°	8563.5	8654.5	8908.5	9185.2	9389.9	9397.5	8995.7	8449.8	7881.2	7642.3	7638.6
50°	8855.4	8988.1	9238.3	9552.9	9852.4	9969.9	9568.1	8980.5	8370.2	8116.2	8089.7
52.5°	9014.6	9151.1	9401.3	9890.3	10223.9	10405.9	10216.3	9477.1	8942.6	8677.2	8635.5
55°	8821.3	8912.3	9321.7	10007.8	10523.4	10822.9	10697.8	10163.3	9511.2	9295.2	9333.1
57.5°	7998.7	8188.2	8692.4	9549.1	10515.8	11251.2	11239.9	10811.5	10167.1	9962.3	9969.9
60°	6584.7	6743.9	7365.6	8563.5	10091.2	11425.6	11827.4	11440.8	10902.5	10663.7	10656.1
62.5°	4647.6	4848.5	5568.8	6876.6	8840.3	11183.0	12502.2	12233.1	11622.7	11448.4	11512.8
65°	2600.5	2721.8	3389.0	4571.8	6736.3	9848.6	12623.5	13055.7	12354.4	12089.0	12100.4
67.5°	1391.2	1436.7	1747.6	2399.6	4120.7	7593.1	11399.1	13529.5	13146.7	12688.0	12615.9
70°	955.3	970.5	1050.1	1228.2	1948.5	4541.4	8597.6	12684.2	13741.8	13116.3	13237.6
72.5°	807.5	799.9	818.8	837.8	1019.7	2031.9	5045.6	9761.4	12972.3	12737.2	12691.8
75°	701.3	697.5	705.1	686.1	708.9	894.6	2232.8	6084.3	9496.1	10599.2	10769.8
77.5°	580.0	583.8	587.6	568.6	561.0	591.4	898.4	2672.5	4674.1	5159.3	5565.0
80°	439.7	447.3	477.6	458.7	428.4	432.2	530.7	894.6	1342.0	1216.9	1254.8
82.5°	299.5	303.3	367.7	345.0	322.2	291.9	341.2	462.5	523.1	398.0	348.8
85°	212.3	208.5	238.8	219.9	204.7	147.8	204.7	261.6	314.6	197.1	178.2
87.5°	49.3	49.3	98.6	79.6	75.8	60.7	79.6	102.4	136.5	87.2	79.6
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°	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3
2.5°	3669.5	3635.4	3635.4	3627.8	3597.5	3589.9	3563.4	3571.0	3552.0	3533.1
5°	3798.4	3752.9	3752.9	3688.5	3627.8	3620.3	3589.9	3589.9	3559.6	3567.2
7.5°	3976.6	3934.9	3866.7	3809.8	3726.4	3692.3	3635.4	3627.8	3620.3	3605.1
10°	4188.9	4135.8	4067.6	3950.1	3881.8	3817.4	3760.5	3680.9	3662.0	3665.7
12.5°	4477.0	4393.6	4245.7	4143.4	4056.2	3972.8	3889.4	3771.9	3745.4	3756.7
15°	4681.7	4575.6	4427.7	4389.8	4272.3	4169.9	4033.5	3900.8	3855.3	3843.9
17.5°	4848.5	4761.3	4674.1	4617.3	4522.5	4397.4	4207.8	4056.2	3953.9	3942.5
20°	4985.0	4871.2	4852.3	4886.4	4768.9	4685.5	4454.2	4268.5	4132.0	4075.2
22.5°	5068.4	4996.3	5049.4	5079.7	5072.2	4931.9	4693.1	4477.0	4306.4	4253.3
25°	5159.3	5075.9	5265.5	5367.8	5394.4	5163.1	4977.4	4693.1	4526.3	4492.2
27.5°	5204.8	5235.2	5455.0	5671.1	5652.2	5474.0	5223.8	4969.8	4837.1	4776.5
30°	5337.5	5386.8	5720.4	5963.0	5966.8	5792.4	5602.9	5314.8	5166.9	5140.4
32.5°	5576.3	5637.0	5993.3	6251.1	6296.6	6163.9	5974.4	5796.2	5644.6	5583.9
35°	5758.3	5913.7	6315.6	6550.6	6671.9	6592.3	6486.1	6300.4	6141.2	6088.1
37.5°	6019.9	6235.9	6622.6	6941.0	7077.5	7069.9	6990.3	6789.4	6656.7	6611.2
40°	6395.2	6611.2	6963.8	7384.6	7638.6	7627.2	7581.7	7426.3	7229.1	7206.4
42.5°	6793.2	6971.4	7430.1	7911.5	8275.4	8237.5	8116.2	7934.2	7797.8	7767.4
45°	7179.9	7456.6	7881.2	8499.1	8772.0	8866.8	8722.7	8411.9	8256.5	8237.5
47.5°	7665.1	7885.0	8415.7	8969.1	9374.8	9389.9	9143.5	8855.4	8571.1	8631.8
50°	8097.2	8389.1	8927.4	9534.0	10019.2	9844.8	9530.2	9170.1	8965.4	8885.7
52.5°	8559.7	8916.1	9541.6	10159.5	10428.6	10254.2	9742.5	9340.6	9029.8	8995.7
55°	9234.5	9420.3	10239.1	10712.9	10800.1	10432.4	9678.0	9109.4	8707.6	8609.0
57.5°	9920.6	10136.7	10853.2	11262.6	11171.6	10333.8	9261.0	8381.6	7854.6	7714.4
60°	10614.4	10879.7	11482.5	11857.8	11387.7	9655.3	8082.1	6948.6	6334.5	6209.4
62.5°	11387.7	11732.7	12271.0	12403.6	10747.0	8313.3	6414.1	5015.3	4393.6	4185.1
65°	12073.8	12426.4	13089.8	12289.9	9386.1	6201.8	4147.2	2865.9	2407.2	2240.4
67.5°	12638.7	13036.7	13362.7	10875.9	6872.8	3631.6	2160.8	1508.8	1338.2	1277.5
70°	13086.0	13749.4	12225.5	7994.9	3927.3	1770.3	1167.6	993.2	970.5	955.3
72.5°	12695.5	12608.4	9128.4	4613.5	1721.0	974.2	845.4	818.8	815.0	818.8
75°	10383.1	9261.0	5458.8	2005.4	864.3	705.1	701.3	689.9	708.9	708.9
77.5°	5038.0	4405.0	2282.1	860.5	568.6	553.5	572.4	572.4	572.4	572.4
80°	1167.6	1292.7	815.0	523.1	413.2	413.2	454.9	458.7	439.7	432.2
82.5°	398.0	530.7	447.3	329.8	272.9	307.1	345.0	352.5	291.9	295.7
85°	197.1	310.8	242.6	189.5	140.3	189.5	223.7	235.0	200.9	193.3
87.5°	91.0	136.5	91.0	64.4	49.3	68.2	64.4	53.1	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)