

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: P481410

Luminaire Tested: **IFLD-S-SA6C-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

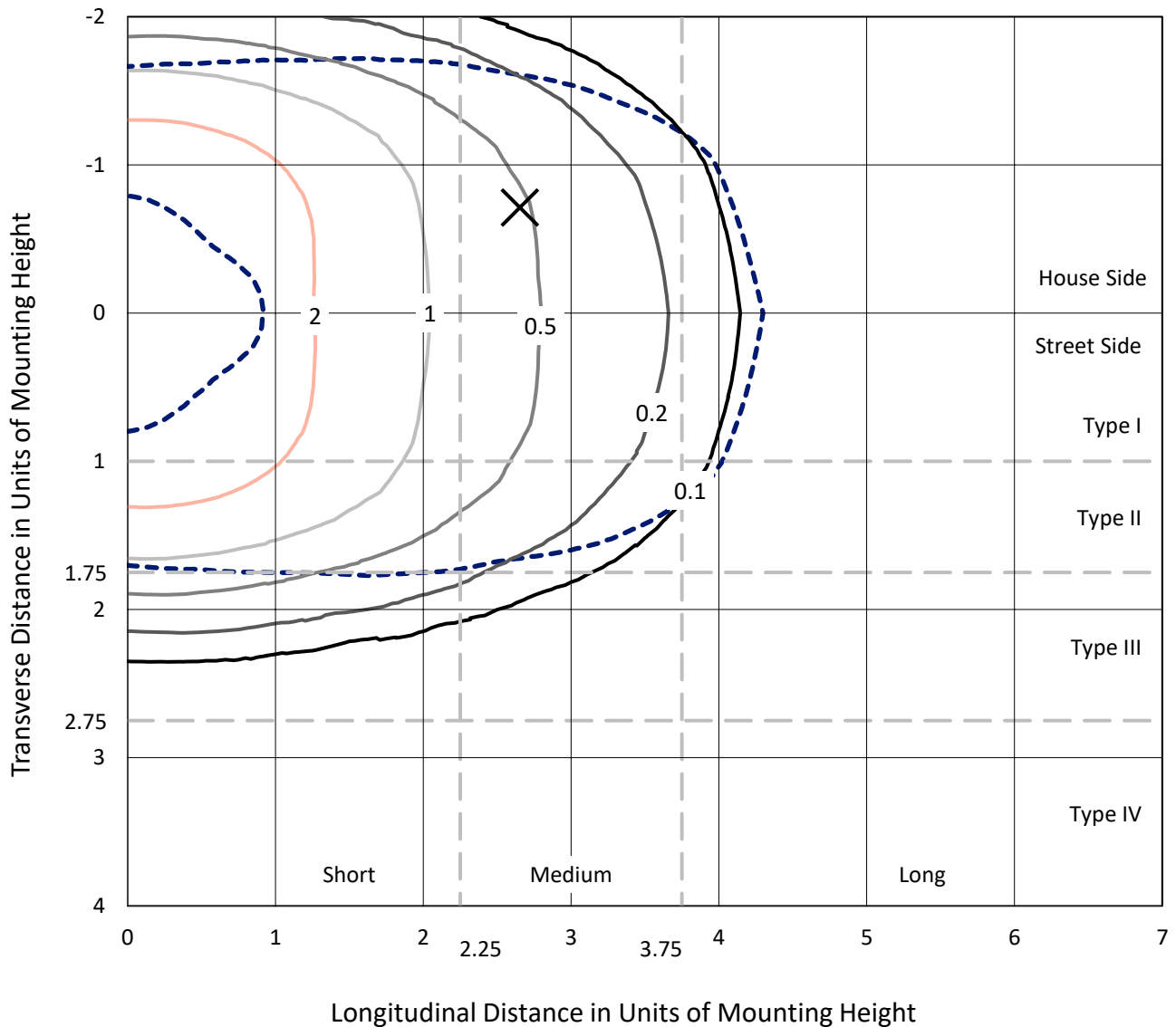
Lumens per Lamp: N/A
Luminaire Lumens: 31461.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 321.5
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

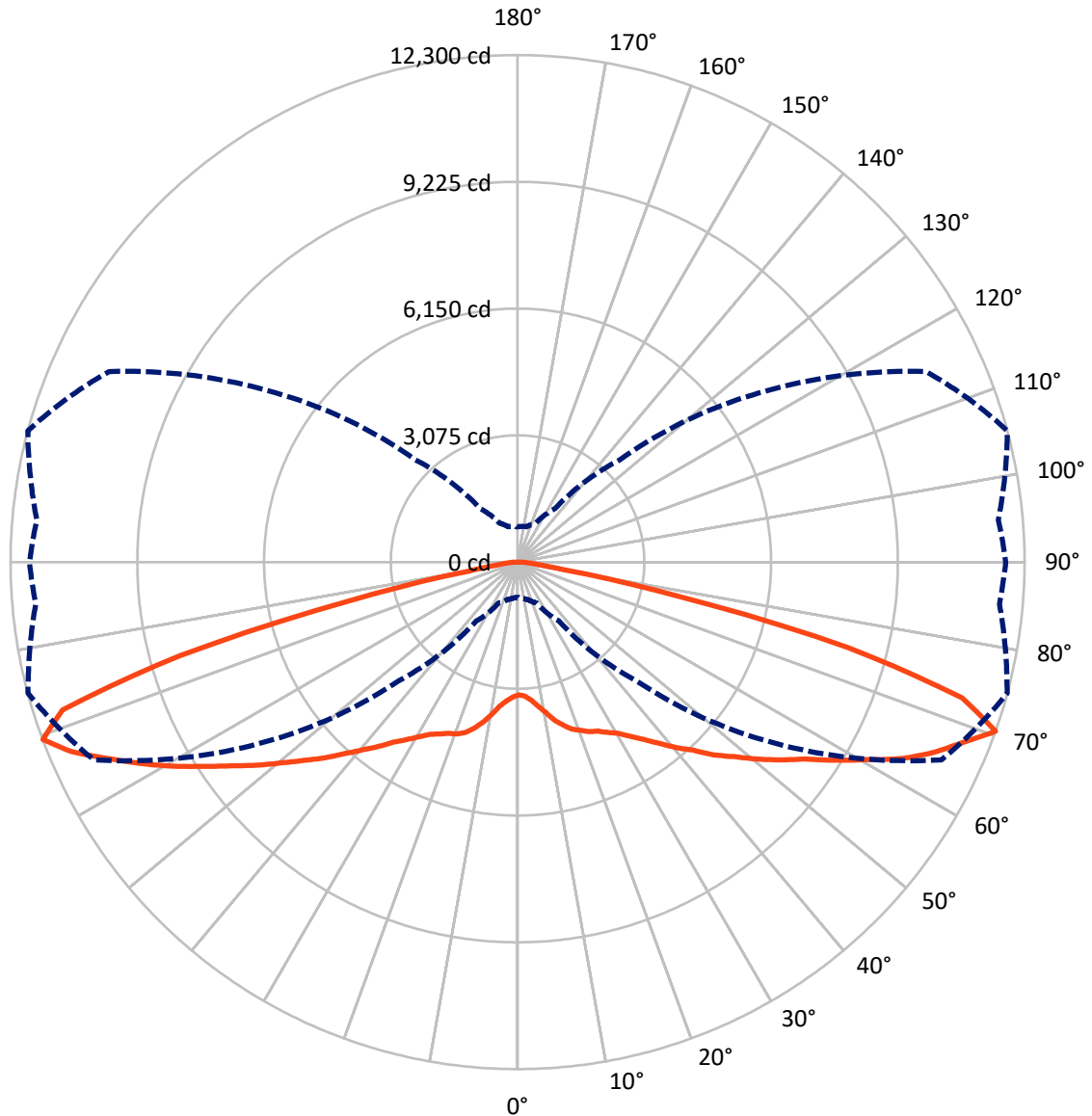
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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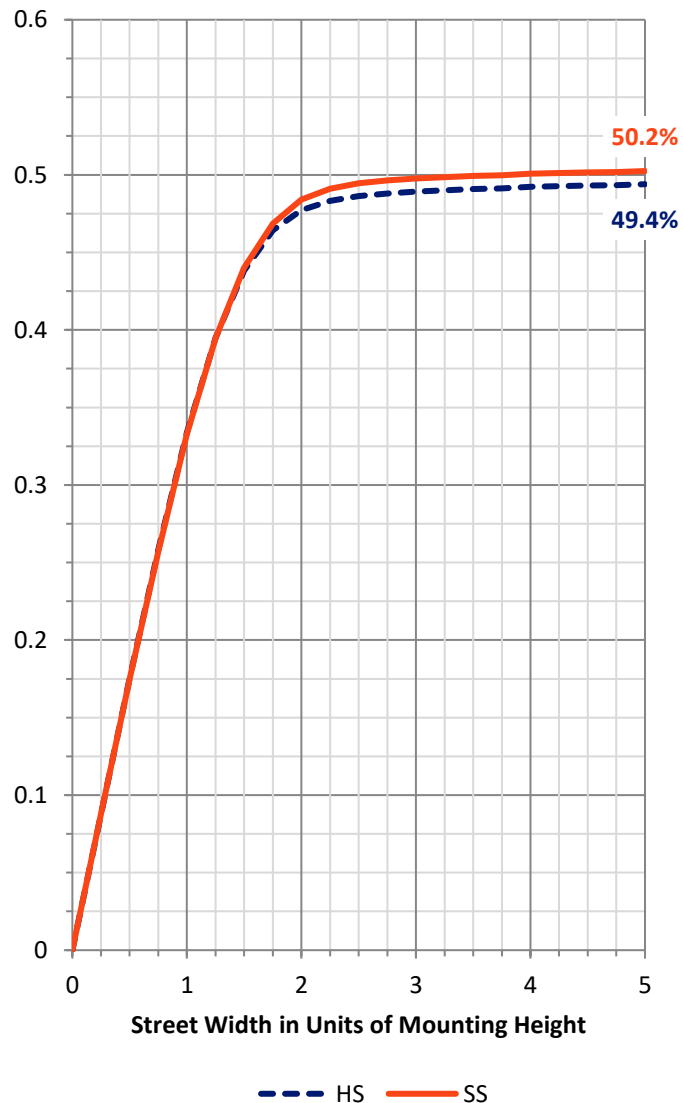
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15619.0	0.0	15619.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15842.9	0.0	15842.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	31461.9	0.0	31461.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.0
10°-20°	1091.8	3.5
20°-30°	2114.2	6.7
30°-40°	3575.9	11.4
40°-50°	5704.7	18.1
50°-60°	7808.4	24.8
60°-70°	7360.0	23.4
70°-80°	3242.3	10.3
80°-90°	244.0	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°	31461.9	100.0
0°-180°	31461.9	100.0

Coefficient of Utilization

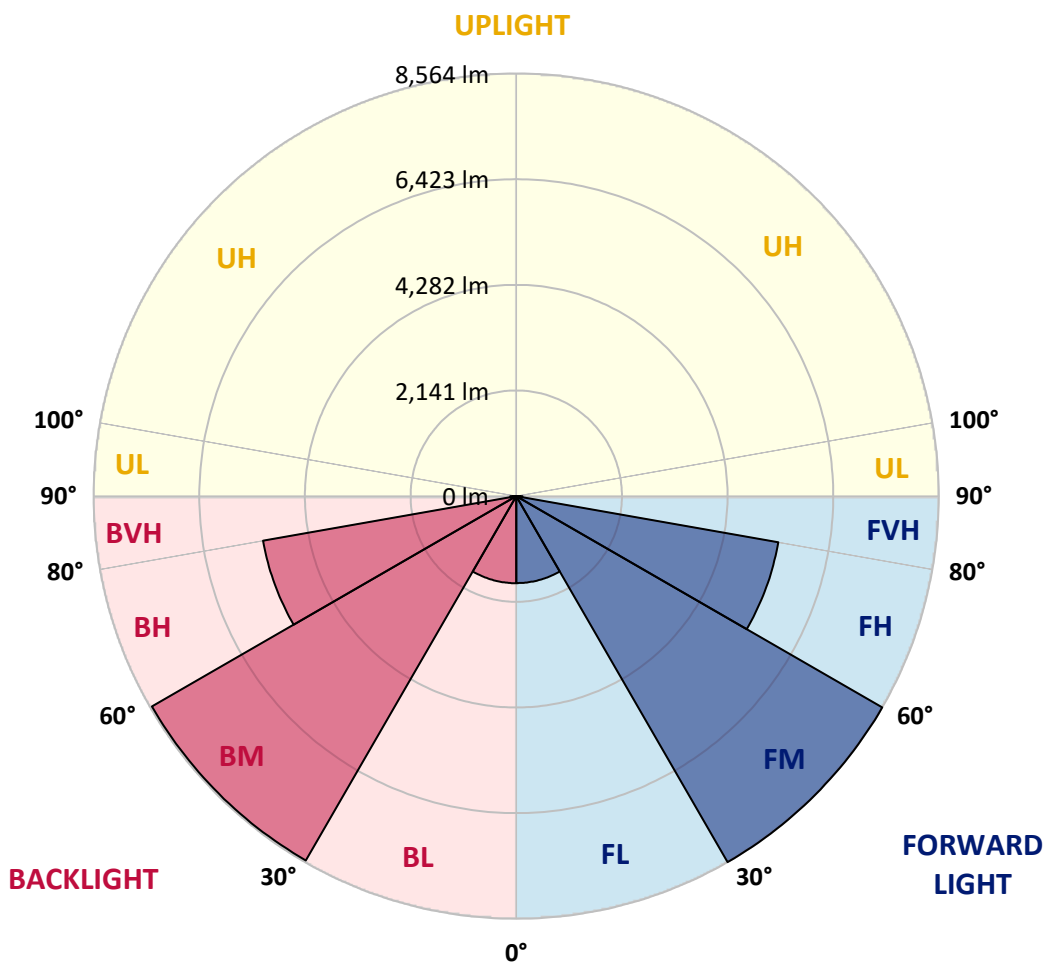


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.4	5.6			
FM (30°-60°)	8563.7	27.2			
FH (60°-80°)	5392.2	17.1			G3/7500
FVH (80°-90°)	124.6	0.4			G2/225
BL (0°-30°)	1764.3	5.6	B3/2500		
BM (30°-60°)	8525.4	27.1	B5		
BH (60°-80°)	5210.0	16.6	B5		G5
BVH (80°-90°)	119.3	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°	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7
2.5°	3201.3	3201.3	3197.9	3214.9	3231.8	3238.6	3252.2	3255.6	3275.9	3259.0	3292.9
5°	3191.1	3187.8	3214.9	3255.6	3255.6	3299.7	3326.8	3364.1	3374.3	3394.6	3401.4
7.5°	3262.4	3255.6	3242.0	3286.1	3323.4	3391.2	3428.5	3493.0	3516.7	3543.8	3574.4
10°	3306.5	3306.5	3292.9	3370.9	3404.8	3496.4	3577.7	3642.2	3733.7	3764.3	3767.7
12.5°	3313.2	3323.4	3364.1	3465.8	3560.8	3679.5	3740.5	3862.6	3954.2	4011.8	4032.2
15°	3415.0	3394.6	3438.7	3577.7	3716.8	3821.9	3930.4	4018.6	4150.9	4225.5	4273.0
17.5°	3506.5	3486.2	3567.6	3733.7	3876.2	4039.0	4133.9	4228.9	4323.8	4391.6	4395.0
20°	3652.4	3669.3	3740.5	3920.3	4106.8	4249.2	4357.7	4374.7	4422.2	4520.5	4503.6
22.5°	3832.1	3818.5	3967.7	4164.4	4367.9	4486.6	4547.6	4503.6	4479.8	4584.9	4608.7
25°	4011.8	4052.5	4188.2	4371.3	4615.5	4774.9	4791.8	4669.7	4581.6	4618.9	4608.7
27.5°	4286.5	4293.3	4435.7	4652.8	4900.3	5039.4	5029.2	4856.2	4686.7	4690.1	4696.9
30°	4639.2	4605.3	4761.3	4958.0	5202.1	5327.6	5344.6	5097.0	4869.8	4802.0	4818.9
32.5°	4978.3	5019.0	5154.7	5378.5	5558.2	5629.4	5592.1	5371.7	5076.7	4985.1	4995.3
35°	5412.4	5405.6	5592.1	5782.0	5917.7	5931.3	5900.7	5578.6	5300.5	5181.8	5134.3
37.5°	5877.0	5938.0	6060.1	6216.1	6358.6	6365.3	6199.2	5941.4	5598.9	5402.2	5459.9
40°	6395.9	6463.7	6551.9	6779.1	6884.2	6775.7	6606.1	6256.8	5900.7	5727.8	5754.9
42.5°	6853.7	6884.2	7063.9	7331.8	7382.7	7335.2	7084.3	6660.4	6246.6	6056.7	6070.3
45°	7274.2	7314.9	7548.9	7789.7	7908.4	7827.0	7535.3	7131.8	6650.2	6487.4	6423.0
47.5°	7660.8	7742.2	7969.4	8217.0	8400.1	8406.9	8047.4	7559.1	7050.4	6836.7	6833.3
50°	7921.9	8040.6	8264.4	8545.9	8813.8	8918.9	8559.5	8033.8	7487.8	7260.6	7236.9
52.5°	8064.3	8186.4	8410.3	8847.7	9146.2	9308.9	9139.4	8478.1	7999.9	7762.5	7725.2
55°	7891.4	7972.8	8339.0	8952.8	9414.1	9682.0	9570.1	9091.9	8508.6	8315.3	8349.2
57.5°	7155.5	7325.1	7776.1	8542.5	9407.3	10065.2	10055.0	9671.8	9095.3	8912.2	8918.9
60°	5890.6	6033.0	6589.2	7660.8	9027.5	10221.2	10580.6	10234.7	9753.2	9539.5	9532.8
62.5°	4157.6	4337.4	4981.7	6151.7	7908.4	10004.1	11184.3	10943.5	10397.5	10241.5	10299.2
65°	2326.4	2434.9	3031.8	4089.8	6026.2	8810.4	11292.8	11679.4	11052.0	10814.6	10824.8
67.5°	1244.6	1285.3	1563.4	2146.6	3686.3	6792.6	10197.4	12103.3	11760.8	11350.5	11286.0
70°	854.6	868.2	939.4	1098.8	1743.1	4062.7	7691.3	11347.1	12293.2	11733.7	11842.2
72.5°	722.3	715.5	732.5	749.5	912.2	1817.7	4513.7	8732.4	11604.8	11394.5	11353.8
75°	627.4	624.0	630.8	613.8	634.2	800.3	1997.4	5442.9	8495.0	9481.9	9634.5
77.5°	518.9	522.2	525.6	508.7	501.9	529.0	803.7	2390.8	4181.4	4615.5	4978.3
80°	393.4	400.2	427.3	410.3	383.2	386.6	474.8	800.3	1200.5	1088.6	1122.5
82.5°	267.9	271.3	328.9	308.6	288.3	261.1	305.2	413.7	468.0	356.1	312.0
85°	189.9	186.5	213.6	196.7	183.1	132.3	183.1	234.0	281.5	176.3	159.4
87.5°	44.1	44.1	88.2	71.2	67.8	54.3	71.2	91.6	122.1	78.0	71.2
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°	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7	3221.7
2.5°	3282.7	3252.2	3252.2	3245.4	3218.3	3211.5	3187.8	3194.5	3177.6	3160.6
5°	3398.0	3357.3	3357.3	3299.7	3245.4	3238.6	3211.5	3211.5	3184.4	3191.1
7.5°	3557.4	3520.1	3459.1	3408.2	3333.6	3303.1	3252.2	3245.4	3238.6	3225.1
10°	3747.3	3699.8	3638.8	3533.7	3472.6	3415.0	3364.1	3292.9	3275.9	3279.3
12.5°	4005.0	3930.4	3798.2	3706.6	3628.6	3554.0	3479.4	3374.3	3350.5	3360.7
15°	4188.2	4093.2	3961.0	3927.0	3821.9	3730.4	3608.3	3489.6	3448.9	3438.7
17.5°	4337.4	4259.4	4181.4	4130.5	4045.7	3933.8	3764.3	3628.6	3537.1	3526.9
20°	4459.5	4357.7	4340.8	4371.3	4266.2	4191.6	3984.7	3818.5	3696.4	3645.6
22.5°	4534.1	4469.6	4517.1	4544.2	4537.5	4412.0	4198.3	4005.0	3852.4	3805.0
25°	4615.5	4540.9	4710.4	4802.0	4825.7	4618.9	4452.7	4198.3	4049.1	4018.6
27.5°	4656.2	4683.3	4880.0	5073.3	5056.3	4896.9	4673.1	4445.9	4327.2	4273.0
30°	4774.9	4818.9	5117.4	5334.4	5337.8	5181.8	5012.2	4754.5	4622.2	4598.5
32.5°	4988.5	5042.8	5361.5	5592.1	5632.8	5514.1	5344.6	5185.2	5049.5	4995.3
35°	5151.3	5290.3	5649.8	5860.0	5968.6	5897.4	5802.4	5636.2	5493.8	5446.3
37.5°	5385.3	5578.6	5924.5	6209.3	6331.4	6324.6	6253.4	6073.7	5955.0	5914.3
40°	5721.0	5914.3	6229.7	6606.1	6833.3	6823.2	6782.5	6643.4	6467.1	6446.7
42.5°	6077.1	6236.5	6646.8	7077.5	7403.1	7369.1	7260.6	7097.8	6975.8	6948.6
45°	6423.0	6670.6	7050.4	7603.1	7847.3	7932.1	7803.2	7525.1	7386.1	7369.1
47.5°	6857.1	7053.8	7528.5	8023.7	8386.5	8400.1	8179.6	7921.9	7667.6	7721.8
50°	7243.7	7504.8	7986.3	8528.9	8963.0	8807.0	8525.6	8203.4	8020.3	7949.0
52.5°	7657.4	7976.2	8535.7	9088.5	9329.3	9173.3	8715.5	8356.0	8077.9	8047.4
55°	8261.0	8427.2	9159.7	9583.6	9661.6	9332.7	8657.8	8149.1	7789.7	7701.5
57.5°	8874.9	9068.2	9709.1	10075.3	9994.0	9244.5	8284.8	7498.0	7026.6	6901.2
60°	9495.4	9732.8	10272.0	10607.8	10187.3	8637.5	7230.1	6216.1	5666.7	5554.8
62.5°	10187.3	10495.9	10977.4	11096.1	9614.1	7437.0	5738.0	4486.6	3930.4	3743.9
65°	10801.1	11116.5	11709.9	10994.4	8396.7	5548.1	3710.0	2563.8	2153.4	2004.2
67.5°	11306.4	11662.4	11954.1	9729.4	6148.3	3248.8	1933.0	1349.7	1197.1	1142.8
70°	11706.5	12300.0	10936.7	7152.1	3513.3	1583.7	1044.5	888.5	868.2	854.6
72.5°	11357.2	11279.2	8166.1	4127.1	1539.6	871.5	756.2	732.5	729.1	732.5
75°	9288.6	8284.8	4883.4	1794.0	773.2	630.8	627.4	617.2	634.2	634.2
77.5°	4506.9	3940.6	2041.5	769.8	508.7	495.1	512.1	512.1	512.1	512.1
80°	1044.5	1156.4	729.1	468.0	369.6	369.6	406.9	410.3	393.4	386.6
82.5°	356.1	474.8	400.2	295.0	244.2	274.7	308.6	315.4	261.1	264.5
85°	176.3	278.1	217.0	169.6	125.5	169.6	200.1	210.3	179.7	173.0
87.5°	81.4	122.1	81.4	57.7	44.1	61.0	57.7	47.5	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)