

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: P481253

Luminaire Tested: **IFLD-S-SA6B-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481253
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

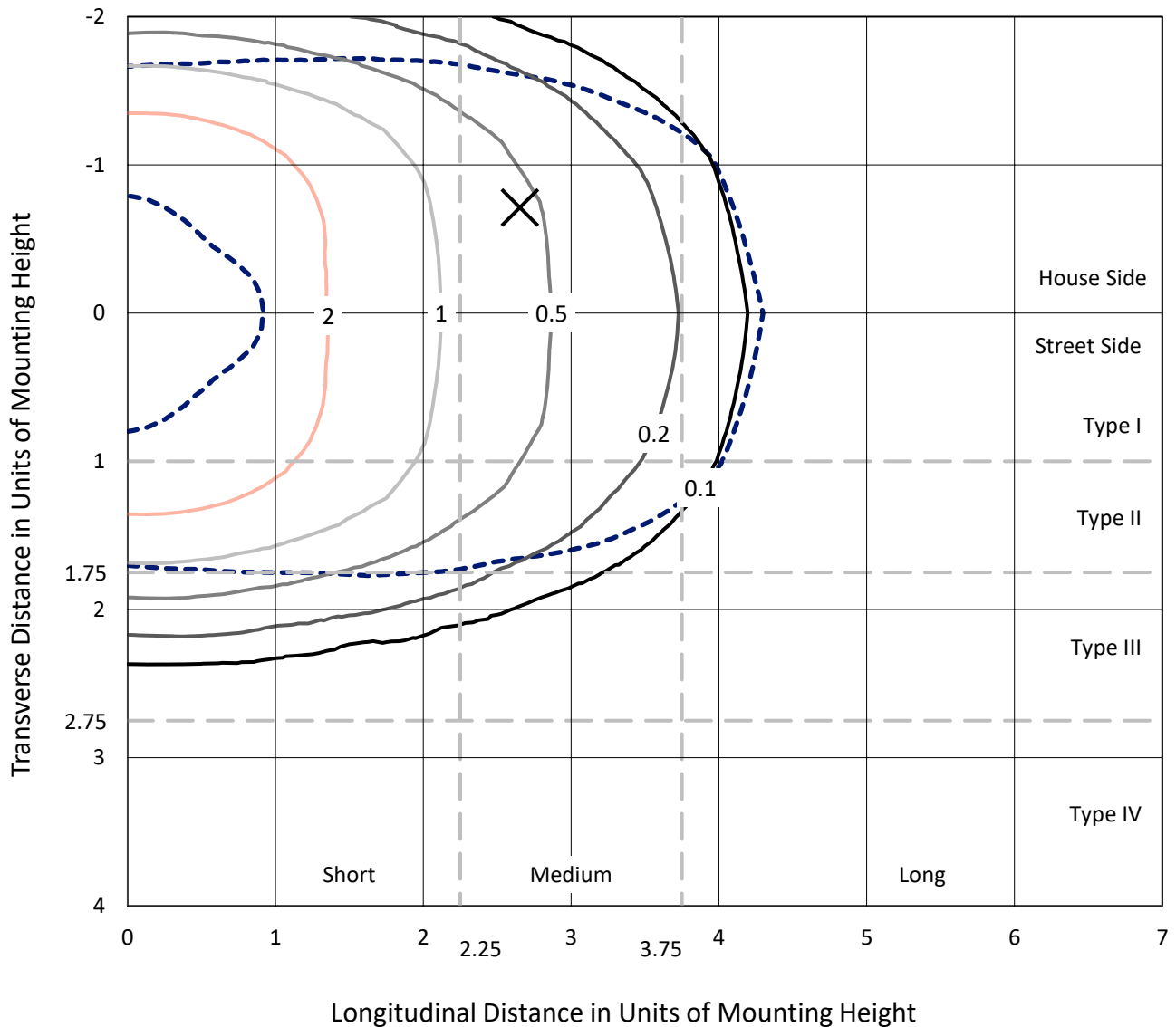
Lumens per Lamp: N/A
Luminaire Lumens: 33910.9 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

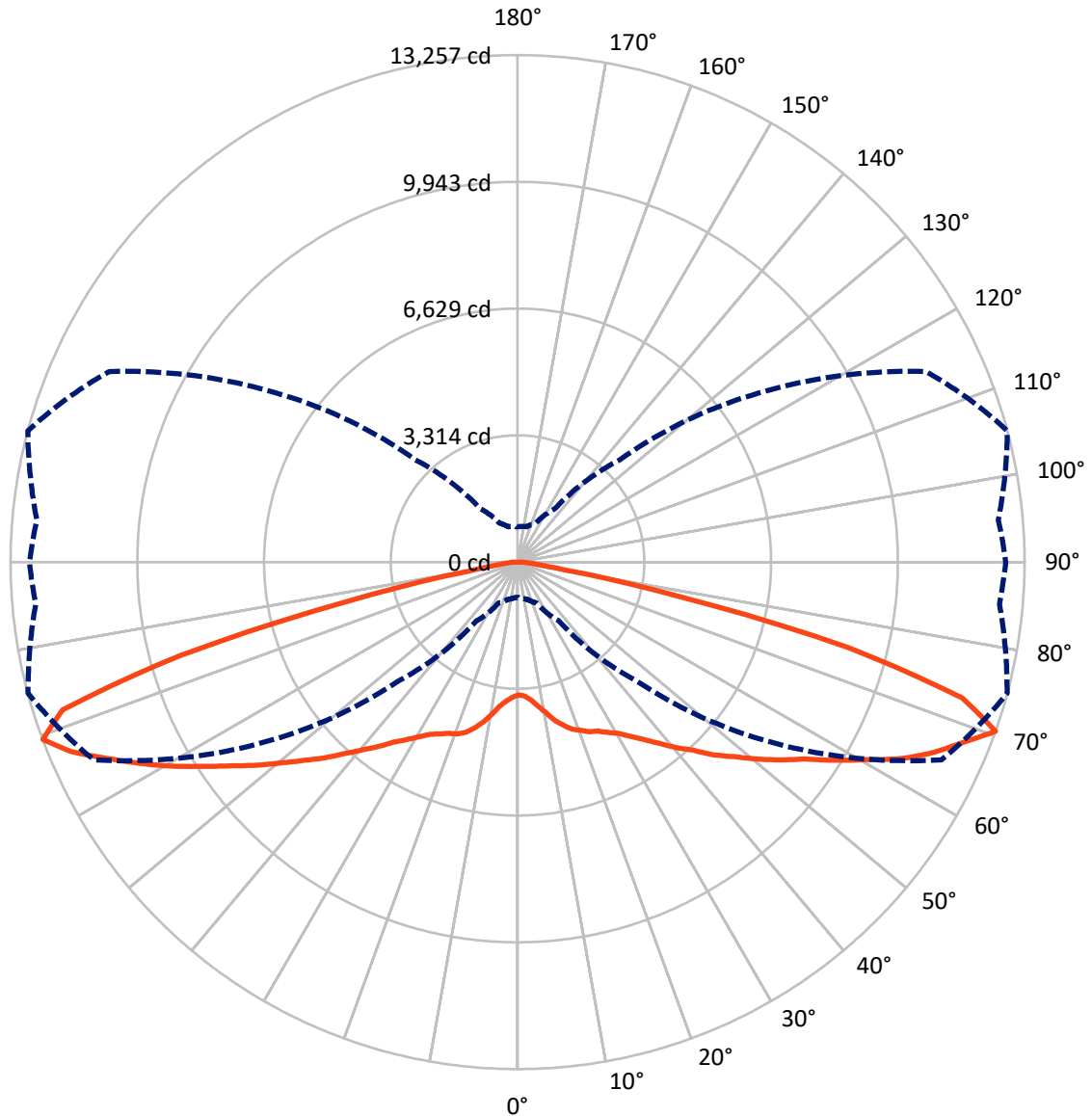
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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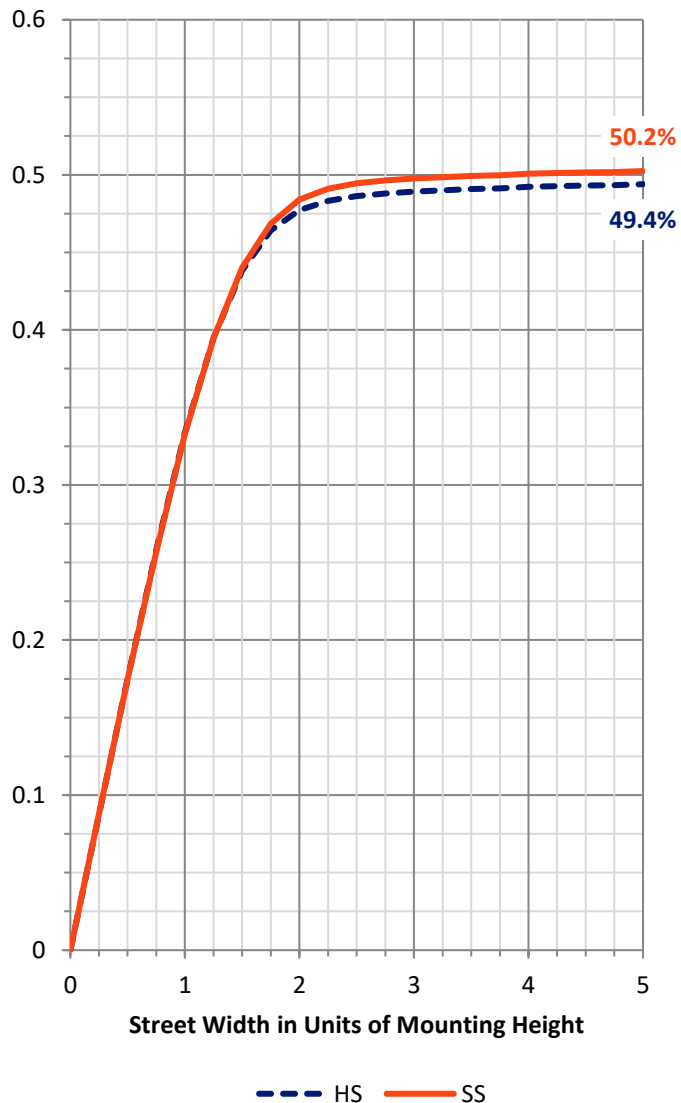
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16834.8	0.0	16834.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17076.1	0.0	17076.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	33910.9	0.0	33910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.0
10°-20°	1176.8	3.5
20°-30°	2278.7	6.7
30°-40°	3854.3	11.4
40°-50°	6148.7	18.1
50°-60°	8416.3	24.8
60°-70°	7932.9	23.4
70°-80°	3494.7	10.3
80°-90°	262.9	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°	33910.9	100.0
0°-180°	33910.9	100.0

Coefficient of Utilization



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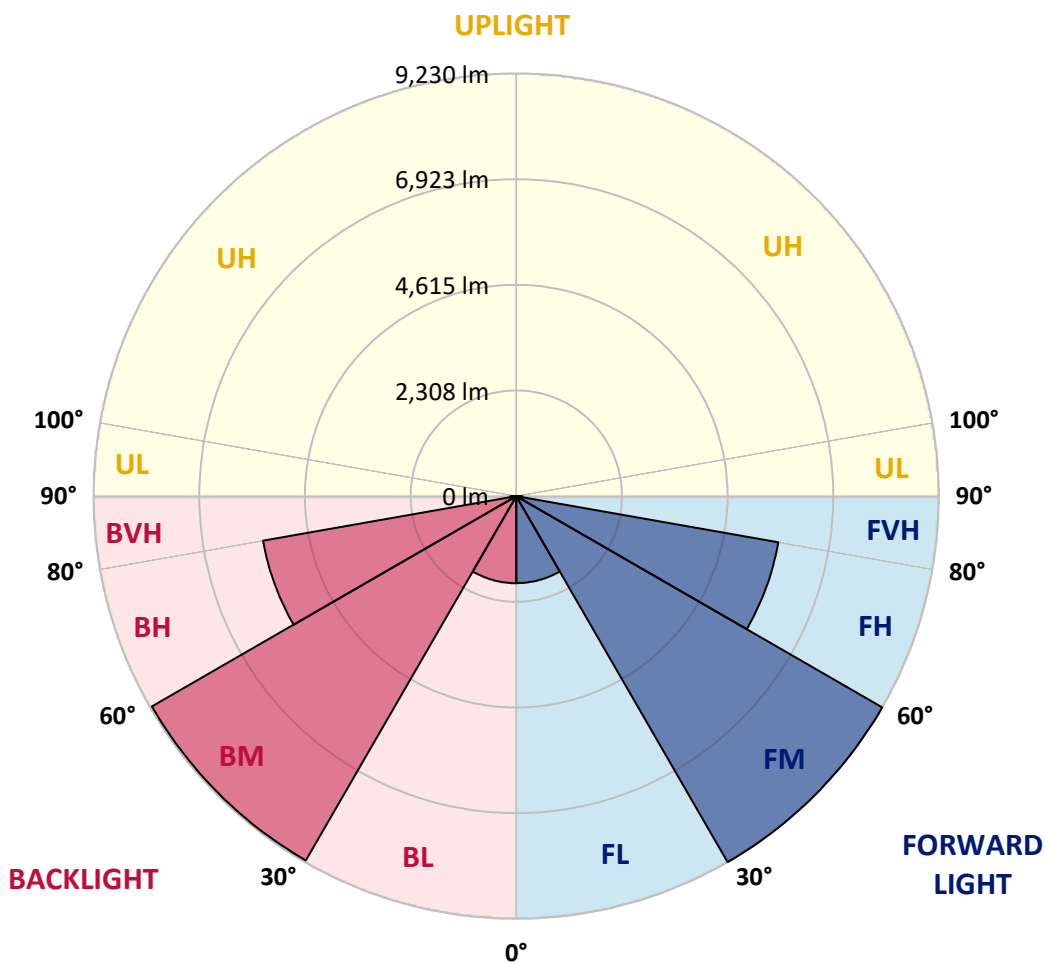
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.6	5.6			
FM (30°-60°)	9230.3	27.2			
FH (60°-80°)	5812.0	17.1			G3/7500
FVH (80°-90°)	134.3	0.4			G2/225
BL (0°-30°)	1901.6	5.6	B3/2500		
BM (30°-60°)	9189.0	27.1	B5		
BH (60°-80°)	5615.6	16.6	B5		G5
BVH (80°-90°)	128.6	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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3450.5	3450.5	3446.9	3465.1	3483.4	3490.7	3505.3	3509.0	3530.9	3512.7	3549.2
5°	3439.6	3435.9	3465.1	3509.0	3509.0	3556.5	3585.8	3626.0	3636.9	3658.9	3666.2
7.5°	3516.3	3509.0	3494.4	3541.9	3582.1	3655.2	3695.4	3764.9	3790.5	3819.7	3852.6
10°	3563.8	3563.8	3549.2	3633.3	3669.8	3768.5	3856.2	3925.7	4024.4	4057.3	4060.9
12.5°	3571.1	3582.1	3626.0	3735.6	3838.0	3965.9	4031.7	4163.3	4262.0	4324.1	4346.0
15°	3680.8	3658.9	3706.4	3856.2	4006.1	4119.4	4236.4	4331.4	4474.0	4554.4	4605.6
17.5°	3779.5	3757.6	3845.3	4024.4	4177.9	4353.4	4455.7	4558.0	4660.4	4733.5	4737.1
20°	3936.7	3954.9	4031.7	4225.4	4426.5	4580.0	4696.9	4715.2	4766.4	4872.4	4854.1
22.5°	4130.4	4115.8	4276.6	4488.6	4707.9	4835.8	4901.6	4854.1	4828.5	4941.8	4967.4
25°	4324.1	4368.0	4514.2	4711.6	4974.7	5146.5	5164.8	5033.2	4938.2	4978.4	4967.4
27.5°	4620.2	4627.5	4781.0	5014.9	5281.8	5431.6	5420.7	5234.3	5051.5	5055.2	5062.5
30°	5000.3	4963.8	5131.9	5343.9	5607.1	5742.3	5760.6	5493.8	5248.9	5175.8	5194.1
32.5°	5365.8	5409.7	5555.9	5797.2	5990.9	6067.6	6027.4	5789.8	5471.8	5373.2	5384.1
35°	5833.7	5826.4	6027.4	6232.1	6378.3	6393.0	6360.1	6012.8	5713.1	5585.2	5534.0
37.5°	6334.5	6400.3	6531.9	6700.0	6853.5	6860.8	6681.7	6403.9	6034.7	5822.7	5884.9
40°	6893.7	6966.8	7061.9	7306.8	7420.1	7303.1	7120.3	6743.9	6360.1	6173.6	6202.9
42.5°	7387.2	7420.1	7613.8	7902.6	7957.4	7906.2	7635.7	7178.8	6732.9	6528.2	6542.8
45°	7840.4	7884.3	8136.5	8396.0	8523.9	8436.2	8121.9	7686.9	7167.9	6992.4	6923.0
47.5°	8257.1	8344.8	8589.7	8856.6	9053.9	9061.3	8673.8	8147.5	7599.2	7368.9	7365.2
50°	8538.6	8666.5	8907.7	9211.1	9499.9	9613.2	9225.7	8659.2	8070.7	7825.8	7800.2
52.5°	8692.1	8823.7	9064.9	9536.4	9858.1	10033.5	9850.8	9138.0	8622.6	8366.8	8326.6
55°	8505.7	8593.4	8988.2	9649.7	10146.9	10435.6	10315.0	9799.6	9170.9	8962.6	8999.1
57.5°	7712.5	7895.2	8381.4	9207.5	10139.5	10848.7	10837.7	10424.7	9803.3	9605.9	9613.2
60°	6349.1	6502.6	7102.1	8257.1	9730.2	11016.8	11404.2	11031.4	10512.4	10282.1	10274.8
62.5°	4481.3	4675.0	5369.5	6630.5	8523.9	10782.9	12054.9	11795.4	11206.9	11038.7	11100.9
65°	2507.5	2624.4	3267.8	4408.2	6495.3	9496.2	12171.8	12588.5	11912.3	11656.5	11667.4
67.5°	1341.5	1385.3	1685.1	2313.7	3973.2	7321.4	10991.2	13045.4	12676.3	12234.0	12164.5
70°	921.1	935.7	1012.5	1184.3	1878.8	4378.9	8290.0	12230.3	13250.1	12647.0	12764.0
72.5°	778.6	771.2	789.5	807.8	983.3	1959.2	4865.1	9412.2	12508.1	12281.5	12237.6
75°	676.2	672.6	679.9	661.6	683.5	862.6	2152.9	5866.6	9156.3	10220.0	10384.4
77.5°	559.2	562.9	566.6	548.3	541.0	570.2	866.3	2576.9	4506.9	4974.7	5365.8
80°	424.0	431.3	460.6	442.3	413.0	416.7	511.7	862.6	1293.9	1173.3	1209.9
82.5°	288.8	292.4	354.6	332.6	310.7	281.5	329.0	445.9	504.4	383.8	336.3
85°	204.7	201.0	230.3	212.0	197.4	142.6	197.4	252.2	303.4	190.1	171.8
87.5°	47.5	47.5	95.0	76.8	73.1	58.5	76.8	98.7	131.6	84.1	76.8
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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3538.2	3505.3	3505.3	3498.0	3468.8	3461.5	3435.9	3443.2	3424.9	3406.7
5°	3662.5	3618.7	3618.7	3556.5	3498.0	3490.7	3461.5	3461.5	3432.2	3439.6
7.5°	3834.3	3794.1	3728.3	3673.5	3593.1	3560.2	3505.3	3498.0	3490.7	3476.1
10°	4039.0	3987.8	3922.0	3808.7	3742.9	3680.8	3626.0	3549.2	3530.9	3534.6
12.5°	4316.8	4236.4	4093.8	3995.1	3911.1	3830.7	3750.2	3636.9	3611.3	3622.3
15°	4514.2	4411.8	4269.3	4232.7	4119.4	4020.7	3889.1	3761.2	3717.3	3706.4
17.5°	4675.0	4590.9	4506.9	4452.0	4360.7	4240.0	4057.3	3911.1	3812.4	3801.4
20°	4806.6	4696.9	4678.7	4711.6	4598.3	4517.8	4294.9	4115.8	3984.2	3929.3
22.5°	4887.0	4817.6	4868.7	4898.0	4890.7	4755.4	4525.1	4316.8	4152.3	4101.1
25°	4974.7	4894.3	5077.1	5175.8	5201.4	4978.4	4799.3	4525.1	4364.3	4331.4
27.5°	5018.6	5047.8	5259.8	5468.2	5449.9	5278.1	5036.9	4792.0	4664.0	4605.6
30°	5146.5	5194.1	5515.7	5749.6	5753.3	5585.2	5402.4	5124.6	4982.0	4956.5
32.5°	5376.8	5435.3	5778.9	6027.4	6071.3	5943.4	5760.6	5588.8	5442.6	5384.1
35°	5552.3	5702.1	6089.6	6316.2	6433.2	6356.4	6254.1	6075.0	5921.4	5870.3
37.5°	5804.5	6012.8	6385.6	6692.7	6824.3	6817.0	6740.2	6546.5	6418.5	6374.7
40°	6166.3	6374.7	6714.6	7120.3	7365.2	7354.3	7310.4	7160.6	6970.5	6948.5
42.5°	6550.1	6721.9	7164.2	7628.4	7979.3	7942.8	7825.8	7650.3	7518.8	7489.5
45°	6923.0	7189.8	7599.2	8195.0	8458.2	8549.5	8410.6	8110.9	7961.0	7942.8
47.5°	7390.8	7602.8	8114.6	8648.2	9039.3	9053.9	8816.4	8538.6	8264.4	8322.9
50°	7807.5	8089.0	8608.0	9192.8	9660.7	9492.6	9189.2	8841.9	8644.6	8567.8
52.5°	8253.5	8597.0	9200.2	9796.0	10055.5	9887.3	9393.9	9006.4	8706.7	8673.8
55°	8904.1	9083.2	9872.7	10329.6	10413.7	10059.1	9331.7	8783.5	8396.0	8301.0
57.5°	9565.7	9774.0	10464.9	10859.6	10771.9	9964.1	8929.7	8081.7	7573.6	7438.3
60°	10234.6	10490.4	11071.6	11433.5	10980.2	9309.8	7792.9	6700.0	6107.9	5987.2
62.5°	10980.2	11312.9	11831.9	11959.8	10362.5	8015.9	6184.6	4835.8	4236.4	4035.3
65°	11641.8	11981.8	12621.4	11850.2	9050.3	5979.9	3998.8	2763.3	2321.1	2160.2
67.5°	12186.5	12570.3	12884.6	10486.8	6626.9	3501.7	2083.5	1454.8	1290.3	1231.8
70°	12617.8	13257.4	11788.0	7708.8	3786.8	1707.0	1125.8	957.7	935.7	921.1
72.5°	12241.3	12157.2	8801.7	4448.4	1659.5	939.4	815.1	789.5	785.9	789.5
75°	10011.6	8929.7	5263.5	1933.6	833.4	679.9	676.2	665.2	683.5	683.5
77.5°	4857.8	4247.4	2200.4	829.7	548.3	533.7	551.9	551.9	551.9	551.9
80°	1125.8	1246.4	785.9	504.4	398.4	398.4	438.6	442.3	424.0	416.7
82.5°	383.8	511.7	431.3	318.0	263.2	296.1	332.6	339.9	281.5	285.1
85°	190.1	299.7	233.9	182.8	135.2	182.8	215.7	226.6	193.7	186.4
87.5°	87.7	131.6	87.7	62.1	47.5	65.8	62.1	51.2	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)