

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: P481261

Luminaire Tested: **IFLD-M-SA4E-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481261
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

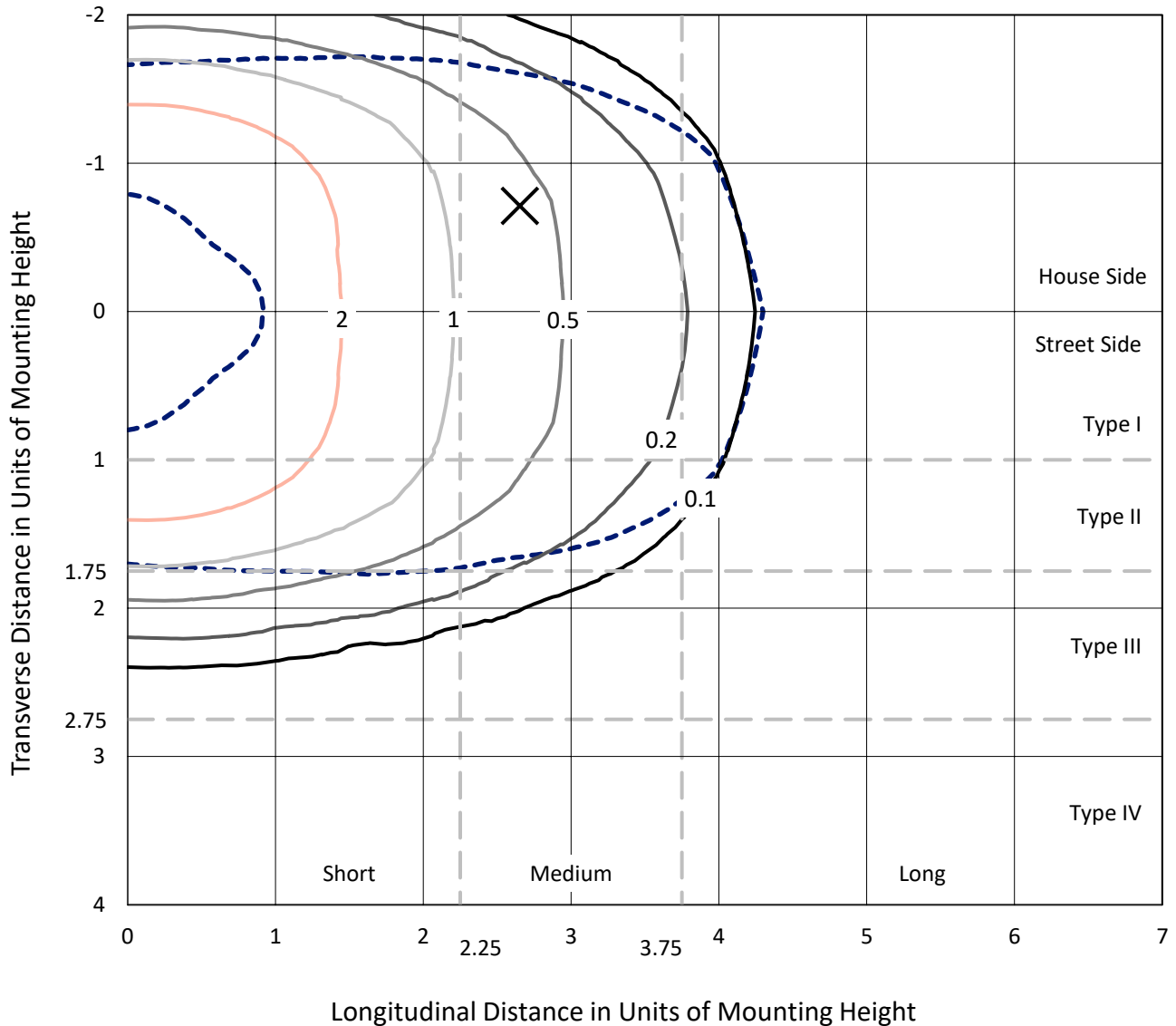
Lumens per Lamp: N/A
Luminaire Lumens: 36780.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 314.8
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

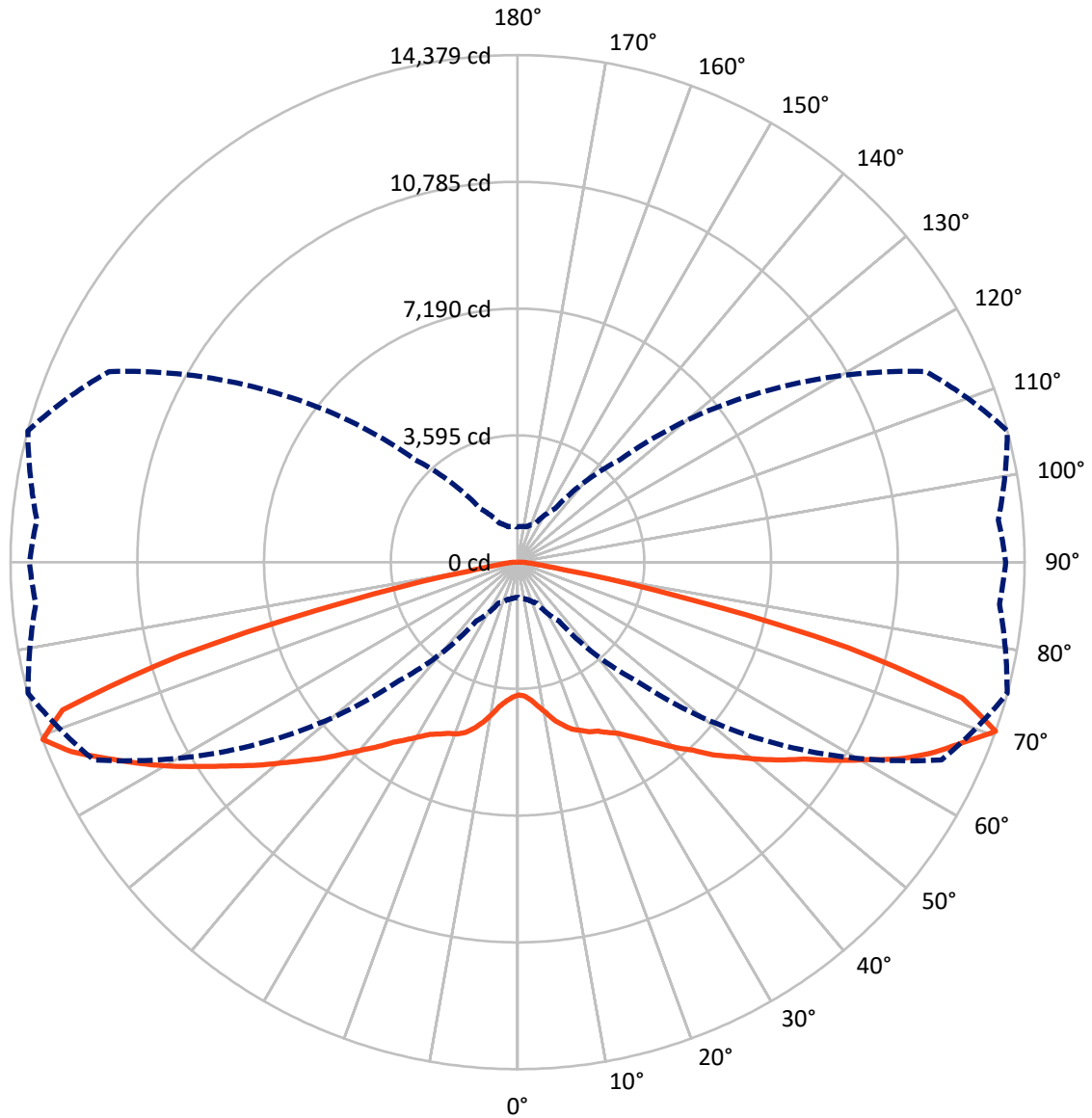
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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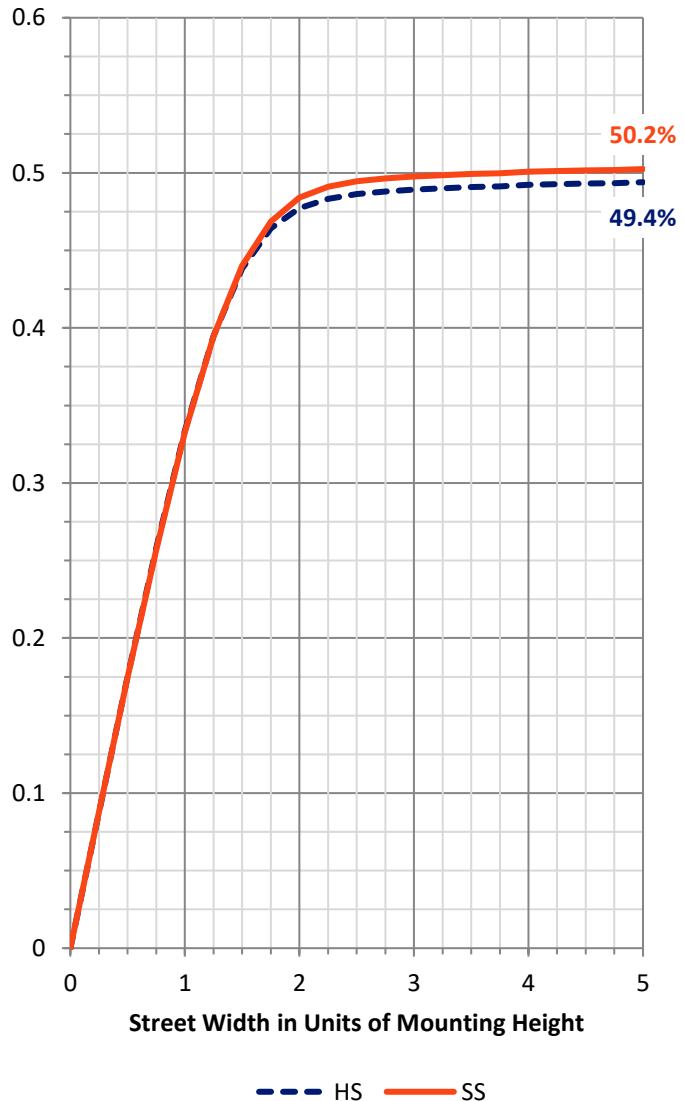
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18259.6	0.0	18259.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18521.3	0.0	18521.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	36780.8	0.0	36780.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	1.0
10°-20°	1276.4	3.5
20°-30°	2471.6	6.7
30°-40°	4180.5	11.4
40°-50°	6669.1	18.1
50°-60°	9128.5	24.8
60°-70°	8604.3	23.4
70°-80°	3790.4	10.3
80°-90°	285.2	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°	36780.8	100.0
0°-180°	36780.8	100.0

Coefficient of Utilization

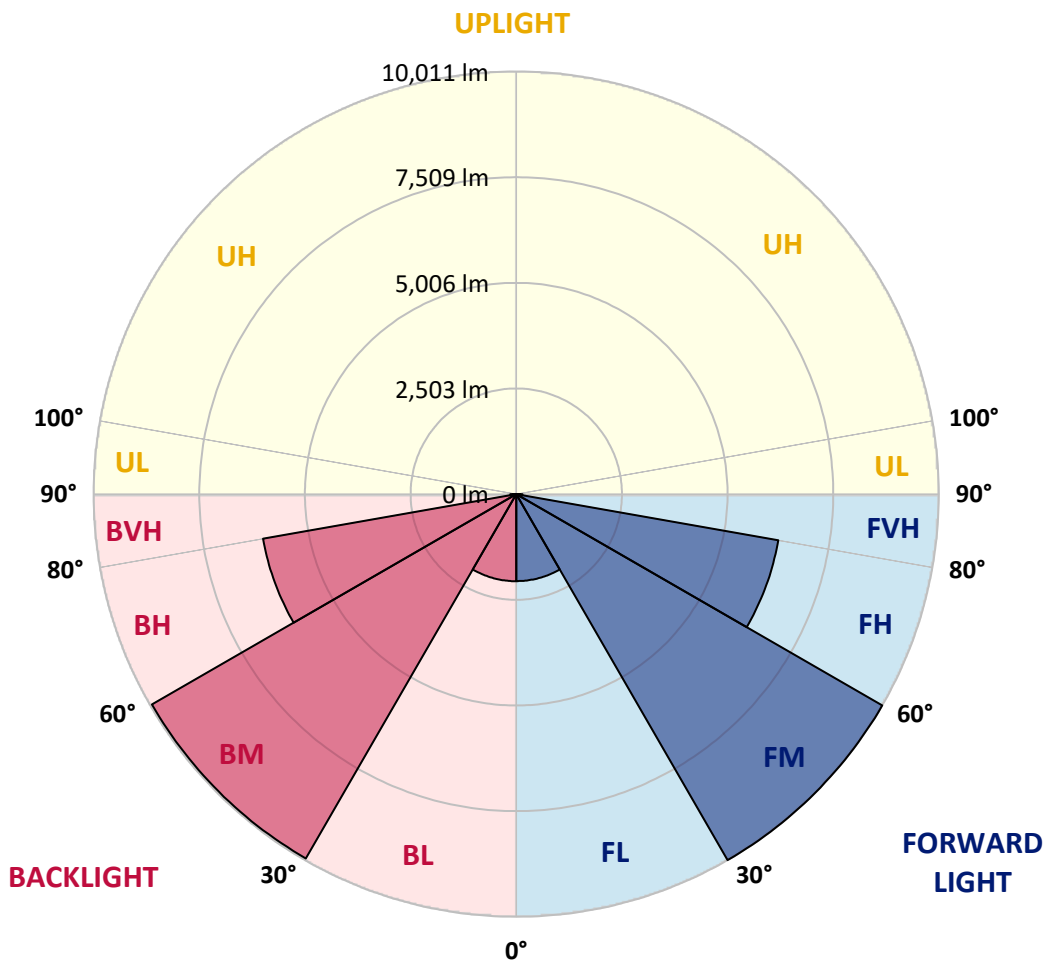


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.3	5.6			
FM (30°-60°)	10011.4	27.2			
FH (60°-80°)	6303.8	17.1			G3/7500
FVH (80°-90°)	145.7	0.4			G2/225
BL (0°-30°)	2062.6	5.6	B3/2500		
BM (30°-60°)	9966.7	27.1	B5		
BH (60°-80°)	6090.8	16.6	B5		G5
BVH (80°-90°)	139.5	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°	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3
2.5°	3742.5	3742.5	3738.6	3758.4	3778.2	3786.1	3802.0	3806.0	3829.8	3809.9	3849.6
5°	3730.6	3726.7	3758.4	3806.0	3806.0	3857.5	3889.2	3932.8	3944.7	3968.5	3976.4
7.5°	3813.9	3806.0	3790.1	3841.6	3885.3	3964.5	4008.2	4083.5	4111.2	4143.0	4178.6
10°	3865.4	3865.4	3849.6	3940.8	3980.4	4087.4	4182.6	4257.9	4365.0	4400.6	4404.6
12.5°	3873.4	3885.3	3932.8	4051.8	4162.8	4301.5	4372.9	4515.6	4622.7	4690.1	4713.8
15°	3992.3	3968.5	4020.1	4182.6	4345.1	4468.0	4594.9	4698.0	4852.6	4939.8	4995.3
17.5°	4099.3	4075.6	4170.7	4365.0	4531.5	4721.8	4832.8	4943.8	5054.8	5134.1	5138.1
20°	4269.8	4289.6	4372.9	4583.0	4801.1	4967.6	5094.4	5114.3	5169.8	5284.7	5264.9
22.5°	4479.9	4464.1	4638.5	4868.5	5106.3	5245.1	5316.5	5264.9	5237.2	5360.1	5387.8
25°	4690.1	4737.6	4896.2	5110.3	5395.7	5582.1	5601.9	5459.2	5356.1	5399.7	5387.8
27.5°	5011.2	5019.1	5185.6	5439.4	5728.8	5891.3	5879.4	5677.2	5479.0	5483.0	5490.9
30°	5423.5	5383.9	5566.2	5796.2	6081.6	6228.3	6248.1	5958.7	5693.1	5613.8	5633.6
32.5°	5820.0	5867.5	6026.1	6287.8	6497.9	6581.1	6537.5	6279.8	5934.9	5827.9	5839.8
35°	6327.4	6319.5	6537.5	6759.6	6918.1	6934.0	6898.3	6521.7	6196.6	6057.8	6002.3
37.5°	6870.6	6941.9	7084.6	7267.0	7433.5	7441.5	7247.2	6945.9	6545.5	6315.5	6382.9
40°	7477.1	7556.4	7659.5	7925.1	8048.0	7921.2	7722.9	7314.6	6898.3	6696.1	6727.8
42.5°	8012.3	8048.0	8258.2	8571.4	8630.8	8575.3	8281.9	7786.4	7302.7	7080.7	7096.5
45°	8504.0	8551.5	8825.1	9106.6	9245.3	9150.2	8809.2	8337.4	7774.5	7584.2	7508.9
47.5°	8955.9	9051.1	9316.7	9606.1	9820.2	9828.1	9407.9	8837.0	8242.3	7992.5	7988.6
50°	9261.2	9399.9	9661.6	9990.7	10303.9	10426.8	10006.5	9392.0	8753.7	8488.1	8460.3
52.5°	9427.7	9570.4	9832.1	10343.5	10692.4	10882.7	10684.5	9911.4	9352.4	9074.8	9031.2
55°	9225.5	9320.7	9748.8	10466.4	11005.6	11318.8	11188.0	10629.0	9947.0	9721.1	9760.7
57.5°	8365.2	8563.4	9090.7	9986.7	10997.7	11766.8	11754.9	11306.9	10632.9	10418.8	10426.8
60°	6886.4	7052.9	7703.1	8955.9	10553.6	11949.1	12369.4	11965.0	11402.0	11152.3	11144.3
62.5°	4860.5	5070.7	5823.9	7191.7	9245.3	11695.4	13075.1	12793.6	12155.3	11972.9	12040.3
65°	2719.7	2846.5	3544.3	4781.2	7045.0	10299.9	13201.9	13653.9	12920.5	12642.9	12654.8
67.5°	1455.0	1502.6	1827.7	2509.6	4309.5	7941.0	11921.4	14149.5	13749.0	13269.3	13194.0
70°	999.1	1014.9	1098.2	1284.5	2037.8	4749.5	8991.6	13265.4	14371.5	13717.3	13844.2
72.5°	844.4	836.5	856.3	876.2	1066.5	2125.0	5276.8	10208.7	13566.7	13320.9	13273.3
75°	733.4	729.5	737.4	717.6	741.4	935.6	2335.1	6363.1	9931.2	11084.9	11263.3
77.5°	606.6	610.5	614.5	594.7	586.8	618.5	939.6	2795.0	4888.3	5395.7	5820.0
80°	459.9	467.8	499.5	479.7	448.0	452.0	555.0	935.6	1403.4	1272.6	1312.3
82.5°	313.2	317.2	384.6	360.8	337.0	305.3	356.8	483.7	547.1	416.3	364.7
85°	222.0	218.1	249.8	229.9	214.1	154.6	214.1	273.6	329.1	206.2	186.3
87.5°	51.5	51.5	103.1	83.3	79.3	63.4	83.3	107.0	142.7	91.2	83.3
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°	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3	3766.3
2.5°	3837.7	3802.0	3802.0	3794.1	3762.4	3754.4	3726.7	3734.6	3714.8	3695.0
5°	3972.5	3924.9	3924.9	3857.5	3794.1	3786.1	3754.4	3754.4	3722.7	3730.6
7.5°	4158.8	4115.2	4043.8	3984.4	3897.1	3861.5	3802.0	3794.1	3786.1	3770.3
10°	4380.8	4325.3	4254.0	4131.1	4059.7	3992.3	3932.8	3849.6	3829.8	3833.7
12.5°	4682.1	4594.9	4440.3	4333.2	4242.1	4154.8	4067.6	3944.7	3917.0	3928.9
15°	4896.2	4785.2	4630.6	4590.9	4468.0	4361.0	4218.3	4079.5	4031.9	4020.1
17.5°	5070.7	4979.5	4888.3	4828.8	4729.7	4598.9	4400.6	4242.1	4135.0	4123.1
20°	5213.4	5094.4	5074.6	5110.3	4987.4	4900.2	4658.3	4464.1	4321.4	4261.9
22.5°	5300.6	5225.3	5280.8	5312.5	5304.6	5157.9	4908.1	4682.1	4503.7	4448.2
25°	5395.7	5308.5	5506.8	5613.8	5641.6	5399.7	5205.5	4908.1	4733.7	4698.0
27.5°	5443.3	5475.0	5705.0	5931.0	5911.1	5724.8	5463.1	5197.5	5058.8	4995.3
30°	5582.1	5633.6	5982.5	6236.2	6240.2	6057.8	5859.6	5558.3	5403.7	5375.9
32.5°	5831.8	5895.3	6267.9	6537.5	6585.1	6446.4	6248.1	6061.8	5903.2	5839.8
35°	6022.1	6184.7	6604.9	6850.7	6977.6	6894.3	6783.3	6589.1	6422.6	6367.1
37.5°	6295.7	6521.7	6926.1	7259.1	7401.8	7393.9	7310.6	7100.5	6961.7	6914.2
40°	6688.2	6914.2	7282.9	7722.9	7988.6	7976.7	7929.1	7766.5	7560.4	7536.6
42.5°	7104.5	7290.8	7770.5	8274.0	8654.6	8615.0	8488.1	8297.8	8155.1	8123.4
45°	7508.9	7798.3	8242.3	8888.5	9174.0	9273.1	9122.4	8797.3	8634.8	8615.0
47.5°	8016.3	8246.3	8801.3	9380.1	9804.3	9820.2	9562.5	9261.2	8963.8	9027.3
50°	8468.3	8773.5	9336.5	9970.8	10478.3	10295.9	9966.9	9590.2	9376.2	9292.9
52.5°	8951.9	9324.6	9978.8	10625.0	10906.5	10724.1	10188.9	9768.6	9443.6	9407.9
55°	9657.6	9851.9	10708.2	11203.8	11295.0	10910.4	10121.5	9526.8	9106.6	9003.5
57.5°	10375.2	10601.2	11350.5	11778.7	11683.5	10807.4	9685.4	8765.6	8214.5	8067.9
60°	11100.7	11378.2	12008.6	12401.1	11909.5	10097.7	8452.4	7267.0	6624.8	6493.9
62.5°	11909.5	12270.3	12833.2	12972.0	11239.5	8694.3	6708.0	5245.1	4594.9	4376.9
65°	12627.1	12995.8	13689.6	12853.1	9816.2	6486.0	4337.2	2997.2	2517.5	2343.0
67.5°	13217.8	13634.1	13975.0	11374.3	7187.7	3798.0	2259.8	1577.9	1399.5	1336.1
70°	13685.6	14379.4	12785.7	8361.2	4107.3	1851.4	1221.1	1038.7	1014.9	999.1
72.5°	13277.3	13186.1	9546.6	4824.9	1799.9	1018.9	884.1	856.3	852.4	856.3
75°	10858.9	9685.4	5708.9	2097.2	903.9	737.4	733.4	721.5	741.4	741.4
77.5°	5268.9	4606.8	2386.7	900.0	594.7	578.8	598.6	598.6	598.6	598.6
80°	1221.1	1351.9	852.4	547.1	432.1	432.1	475.7	479.7	459.9	452.0
82.5°	416.3	555.0	467.8	344.9	285.4	321.1	360.8	368.7	305.3	309.2
85°	206.2	325.1	253.7	198.2	146.7	198.2	233.9	245.8	210.1	202.2
87.5°	95.1	142.7	95.1	67.4	51.5	71.4	67.4	55.5	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)