

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: P479972

Luminaire Tested: **IFLD-M-SA4C-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479972
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

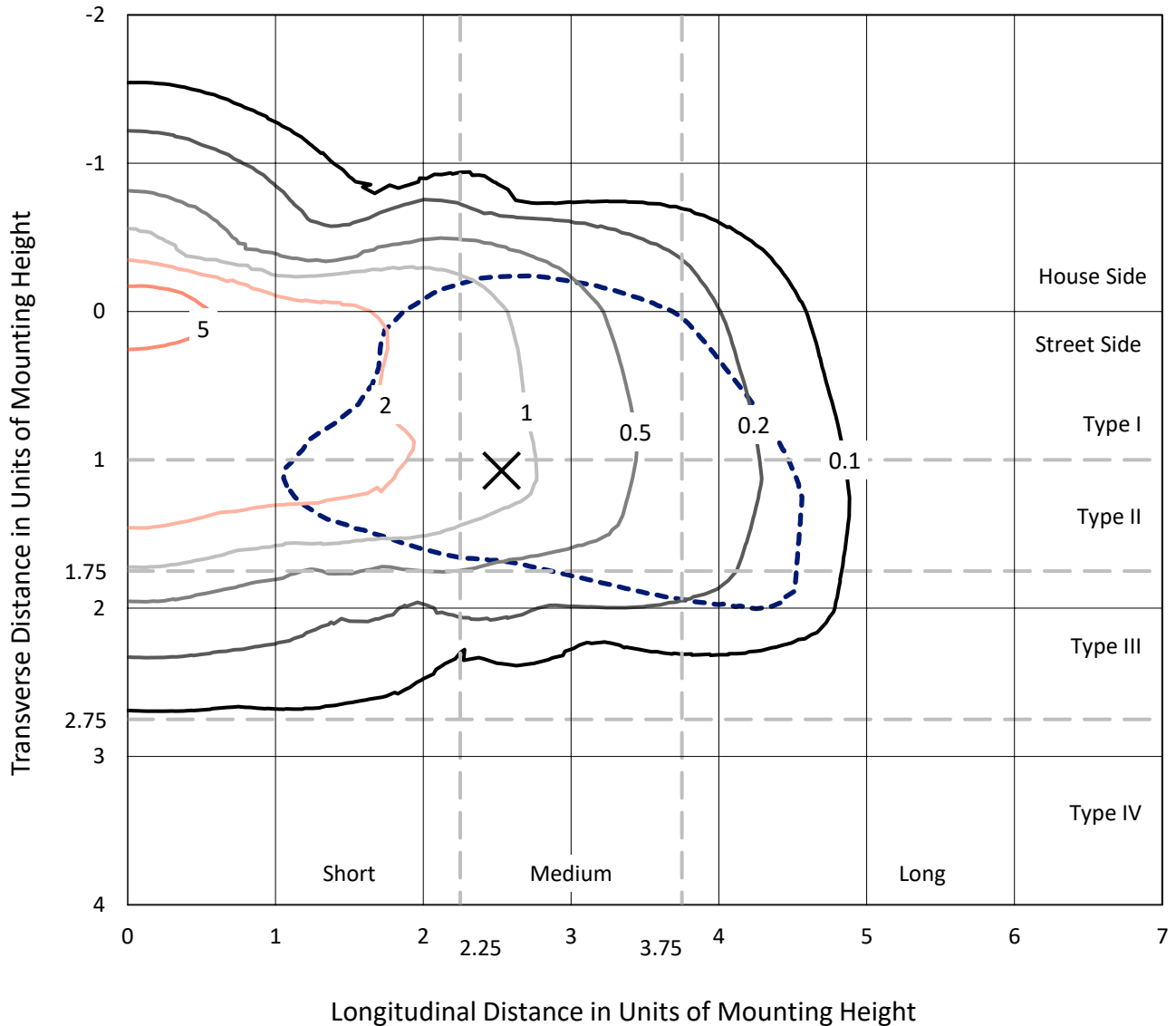
Lumens per Lamp: N/A
Luminaire Lumens: 20881.2 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

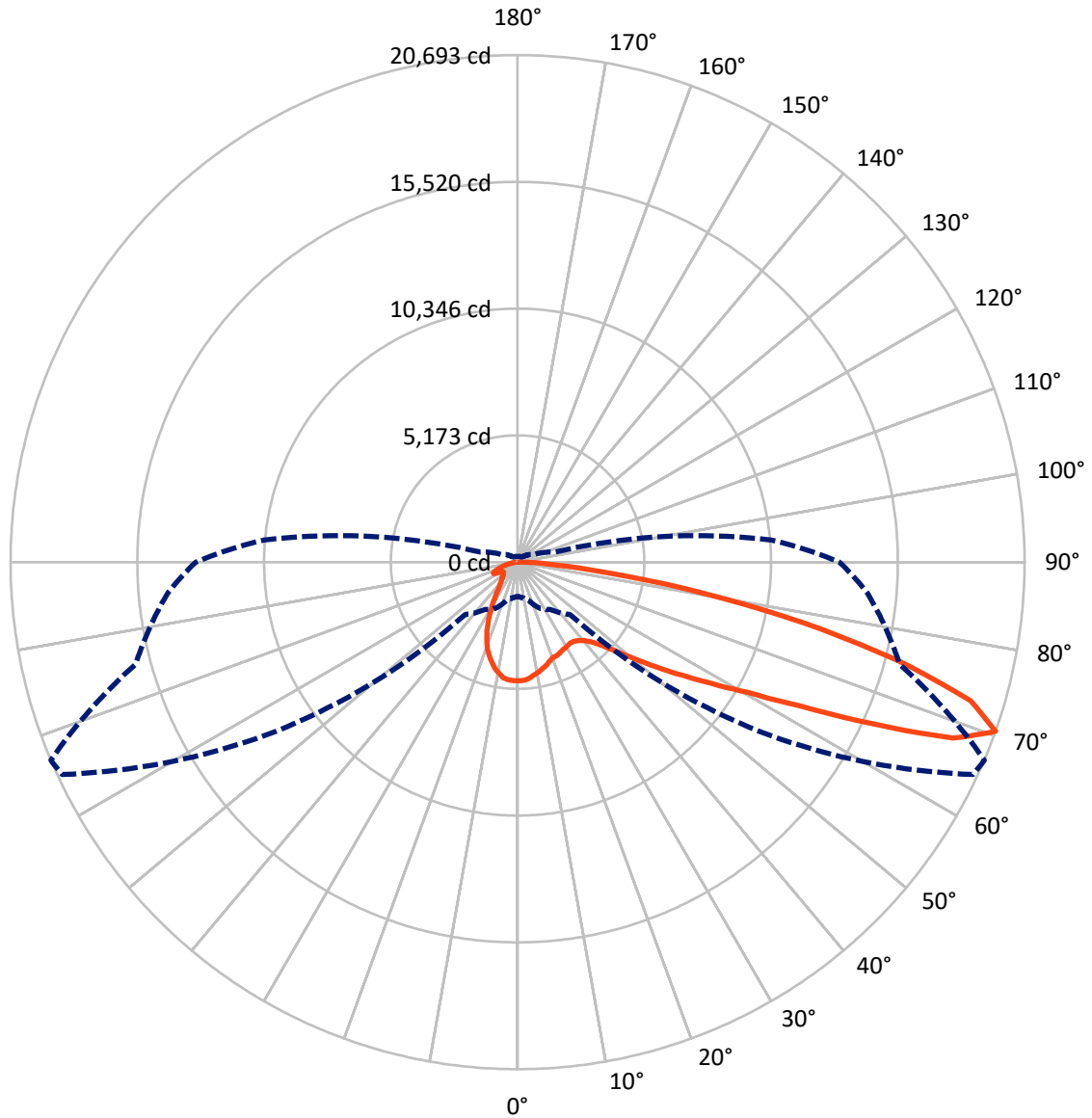
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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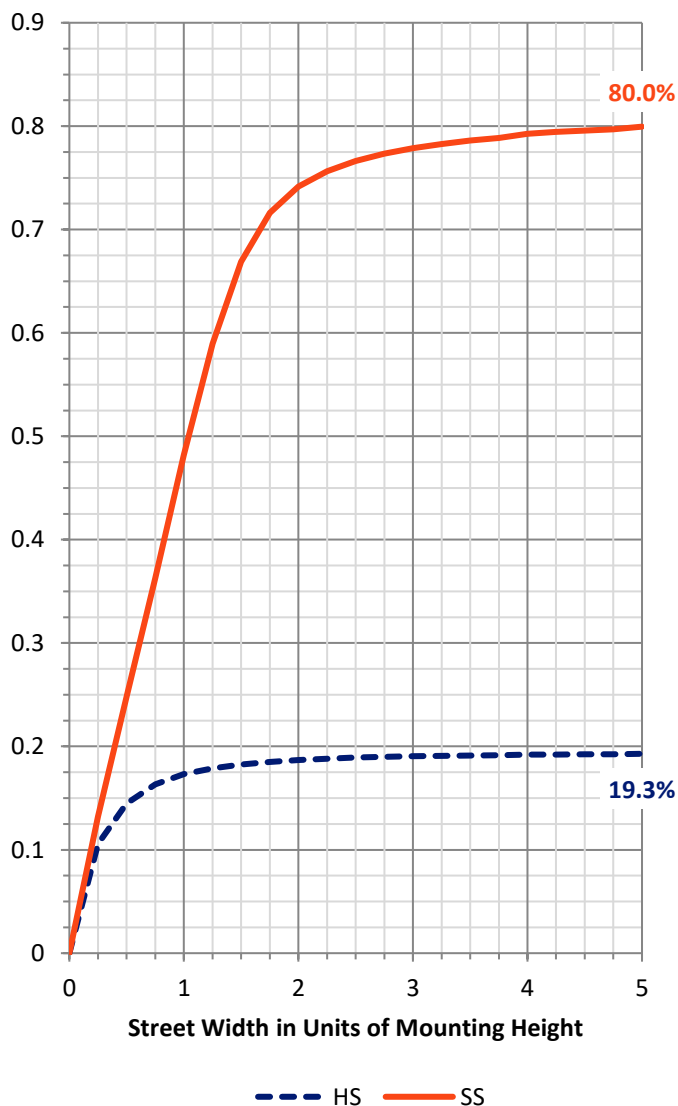
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4066.8	0.0	4066.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16814.4	0.0	16814.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	20881.2	0.0	20881.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.8	2.0
10°-20°	1010.1	4.8
20°-30°	1364.1	6.5
30°-40°	1825.3	8.7
40°-50°	2684.0	12.9
50°-60°	4183.8	20.0
60°-70°	5153.7	24.7
70°-80°	3641.5	17.4
80°-90°	596.9	2.9
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°	20881.2	100.0
0°-180°	20881.2	100.0

Coefficient of Utilization



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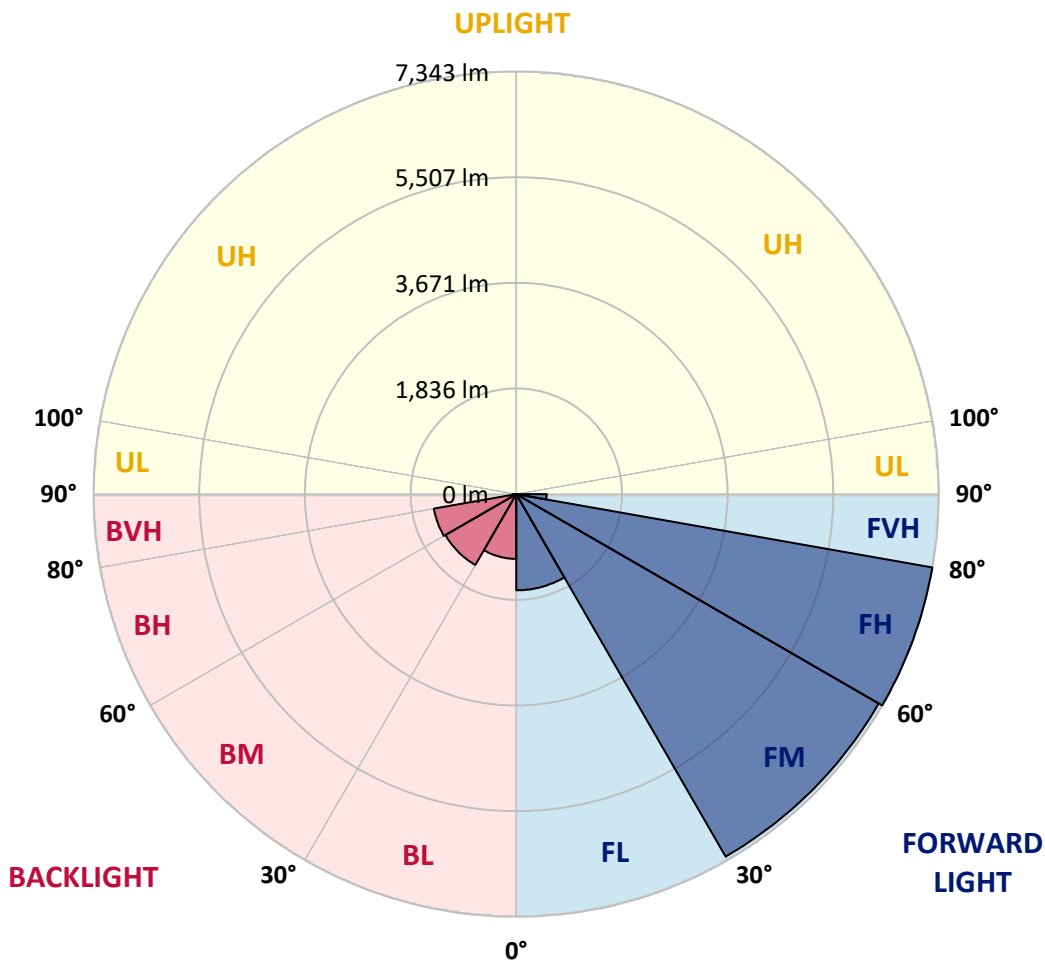
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.4	8.0			
FM (30°-60°)	7272.5	34.8			
FH (60°-80°)	7342.5	35.2			G3/7500
FVH (80°-90°)	528.0	2.5			G4/750
BL (0°-30°)	1124.6	5.4	B3/2500		
BM (30°-60°)	1420.6	6.8	B2/2500		
BH (60°-80°)	1452.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	68.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9
2.5°	4501.0	4551.9	4570.4	4598.1	4669.8	4723.0	4755.3	4792.3	4836.2	4873.2	4896.3
5°	4186.6	4214.4	4258.3	4288.3	4378.5	4521.8	4618.9	4776.1	4771.5	4829.3	4917.1
7.5°	3881.5	3909.2	3930.0	3990.1	4119.6	4249.0	4427.0	4681.3	4662.9	4796.9	4933.3
10°	3691.9	3671.1	3678.0	3779.8	3881.5	4027.1	4251.4	4510.3	4577.3	4785.4	4979.6
12.5°	3513.9	3490.8	3546.3	3611.0	3735.8	3867.6	4135.8	4369.3	4471.0	4743.8	5000.4
15°	3402.9	3386.8	3456.1	3483.8	3631.8	3789.0	3978.6	4262.9	4373.9	4692.9	4968.0
17.5°	3340.5	3354.4	3379.8	3439.9	3534.7	3668.8	3876.8	4191.2	4239.8	4630.5	4961.1
20°	3352.1	3368.3	3370.6	3396.0	3460.7	3564.8	3777.4	4115.0	4147.3	4618.9	4979.6
22.5°	3444.5	3421.4	3430.7	3414.5	3433.0	3513.9	3701.2	4013.2	4138.1	4521.8	4940.3
25°	3583.3	3550.9	3546.3	3490.8	3456.1	3479.2	3687.3	3987.8	4068.7	4491.8	4938.0
27.5°	3828.3	3779.8	3779.8	3696.5	3555.5	3518.5	3648.0	3946.2	4017.9	4464.0	4884.8
30°	4064.1	4064.1	4066.4	3948.5	3791.3	3608.7	3664.2	3930.0	3976.3	4380.8	4813.1
32.5°	4350.8	4343.8	4332.3	4274.5	4031.7	3758.9	3742.8	3909.2	3932.3	4353.1	4792.3
35°	4630.5	4612.0	4702.2	4651.3	4403.9	4052.5	3823.7	3918.5	3969.3	4311.5	4727.6
37.5°	4840.9	4852.4	5039.7	5072.0	4859.4	4385.4	4052.5	4010.9	4059.5	4371.6	4727.6
40°	5113.6	5159.9	5335.6	5444.2	5314.8	4824.7	4415.5	4165.8	4200.5	4505.7	4829.3
42.5°	5472.0	5511.3	5735.5	5876.5	5839.5	5384.1	4773.8	4489.5	4461.7	4729.9	4981.9
45°	5945.9	5952.8	6179.4	6373.6	6449.9	5969.0	5342.5	4898.7	4875.5	5116.0	5261.6
47.5°	6510.0	6503.0	6644.0	6852.1	7057.9	6667.2	5996.7	5520.5	5437.3	5668.5	5726.3
50°	7055.5	7025.5	7057.9	7323.7	7719.0	7541.0	6792.0	6281.1	6197.9	6325.0	6424.4
52.5°	7356.1	7393.1	7305.2	7656.6	8421.8	8574.4	7846.2	7189.6	7118.0	7180.4	7353.8
55°	7145.7	7222.0	7164.2	7497.1	8729.3	9834.3	9210.1	8241.5	8149.0	8125.9	8410.2
57.5°	6251.0	6389.7	6401.3	6928.4	8622.9	10809.9	11128.9	9482.9	9344.2	9108.4	9402.0
60°	4799.2	4938.0	5044.3	5668.5	7712.1	11392.4	13352.8	11249.1	10791.4	10181.1	10356.8
62.5°	3363.6	3458.4	3564.8	3948.5	5945.9	11050.3	15276.2	13736.6	12892.8	11311.5	11531.1
65°	2450.5	2524.5	2633.1	2859.7	3652.6	9143.1	16168.6	16691.0	15891.1	12749.4	12721.7
67.5°	1844.8	1891.0	2034.4	2397.3	2531.4	5647.7	15243.8	19811.9	19164.6	14346.9	13678.8
70°	1396.3	1435.6	1569.7	2066.7	2364.9	3028.4	12025.9	20507.8	20692.7	16138.5	14321.4
72.5°	961.7	1005.6	1155.9	1722.3	2251.7	2401.9	7547.9	18630.6	19331.1	16876.0	13632.5
75°	589.5	619.6	707.4	1306.2	2235.5	2348.8	4154.3	15267.0	16009.0	15592.9	11926.4
77.5°	416.1	413.8	430.0	765.2	1937.3	2362.6	2561.4	11186.7	11908.0	11491.8	8093.5
80°	302.8	305.2	321.3	457.7	1315.4	2401.9	2018.2	7492.5	7707.5	5992.1	3192.6
82.5°	182.6	191.9	231.2	309.8	790.6	2168.4	1865.6	4163.5	3895.3	1923.4	878.5
85°	97.1	97.1	136.4	196.5	420.7	1618.2	1796.2	1981.2	1659.9	596.4	326.0
87.5°	23.1	23.1	39.3	78.6	168.8	774.4	1225.2	788.3	631.1	201.1	134.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9	4833.9
2.5°	4887.1	4859.4	4894.0	4824.7	4769.2	4771.5	4686.0	4681.3	4669.8	4609.7	4630.5
5°	4942.6	4919.5	4880.2	4803.9	4681.3	4558.8	4484.8	4390.1	4350.8	4330.0	4339.2
7.5°	4995.7	4954.1	4840.9	4734.5	4545.0	4313.8	4179.7	4052.5	3890.7	3872.2	3839.9
10°	5009.6	4921.8	4776.1	4549.6	4297.6	4041.0	3735.8	3500.0	3375.2	3278.1	3241.1
12.5°	4988.8	4951.8	4672.1	4380.8	3999.4	3597.1	3241.1	2908.2	2677.0	2556.8	2524.5
15°	4986.5	4921.8	4556.5	4124.2	3636.4	3111.6	2605.4	2205.4	1962.7	1863.3	1863.3
17.5°	4988.8	4833.9	4420.1	3865.3	3208.7	2499.0	1941.9	1613.6	1479.5	1465.7	1477.2
20°	4942.6	4769.2	4276.8	3560.1	2672.4	1877.2	1410.2	1276.1	1276.1	1294.6	1301.5
22.5°	4901.0	4672.1	4050.2	3183.3	2126.8	1359.3	1146.6	1107.3	1151.3	1183.6	1197.5
25°	4843.2	4591.2	3819.1	2792.6	1618.2	1095.8	996.4	1005.6	1047.2	1105.0	1100.4
27.5°	4759.9	4450.2	3544.0	2339.5	1204.4	945.5	920.1	924.7	968.6	994.1	989.4
30°	4665.2	4306.8	3289.7	1888.7	954.8	866.9	864.6	876.2	883.1	897.0	894.7
32.5°	4545.0	4117.3	3019.2	1468.0	860.0	823.0	813.7	806.8	813.7	811.4	804.5
35°	4459.4	4015.6	2744.1	1118.9	806.8	783.7	776.8	765.2	756.0	742.1	739.8
37.5°	4436.3	3913.8	2455.1	913.2	765.2	753.6	730.5	709.7	698.2	691.2	686.6
40°	4422.4	3846.8	2173.1	802.2	730.5	719.0	691.2	663.5	651.9	645.0	647.3
42.5°	4471.0	3809.8	1886.4	746.7	700.5	679.7	649.6	617.2	614.9	610.3	617.2
45°	4642.0	3856.0	1620.6	707.4	670.4	635.7	596.4	580.3	577.9	573.3	577.9
47.5°	5030.4	3971.6	1394.0	682.0	638.1	608.0	566.4	543.3	541.0	538.6	538.6
50°	5566.8	4327.6	1204.4	651.9	617.2	575.6	536.3	510.9	506.3	497.0	497.0
52.5°	6408.2	4926.4	1091.2	635.7	580.3	545.6	504.0	476.2	464.7	455.4	455.4
55°	7356.1	5668.5	1070.4	608.0	541.0	508.6	471.6	443.9	432.3	420.7	416.1
57.5°	8435.7	6651.0	1218.3	589.5	513.2	471.6	430.0	404.6	395.3	383.8	379.1
60°	9441.3	7631.2	1678.3	561.8	487.8	436.9	395.3	369.9	358.3	346.8	346.8
62.5°	10604.1	8844.9	2457.4	561.8	464.7	399.9	358.3	339.8	332.9	321.3	319.0
65°	11979.6	10100.1	3026.1	596.4	457.7	367.6	323.6	305.2	298.2	291.3	289.0
67.5°	13026.9	10821.4	2603.1	688.9	487.8	339.8	289.0	277.4	272.8	265.9	261.2
70°	13137.8	10382.2	1569.7	744.4	517.8	312.1	258.9	247.4	247.4	240.4	235.8
72.5°	12141.4	9212.4	1056.5	663.5	469.3	279.7	228.9	219.6	215.0	210.4	208.1
75°	10160.3	7813.8	834.6	529.4	360.6	231.2	198.8	189.6	182.6	180.3	175.7
77.5°	6824.4	5079.0	617.2	413.8	265.9	187.3	166.4	157.2	150.3	148.0	141.0
80°	2621.6	1935.0	397.6	300.5	187.3	148.0	131.8	122.5	117.9	111.0	106.3
82.5°	772.1	626.5	221.9	184.9	120.2	101.7	94.8	87.8	80.9	74.0	71.7
85°	319.0	286.7	136.4	97.1	74.0	60.1	55.5	48.5	41.6	37.0	32.4
87.5°	148.0	122.5	62.4	37.0	25.4	13.9	6.9	2.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)