

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: P480126

Luminaire Tested: **IFLD-M-SA4A-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480126
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

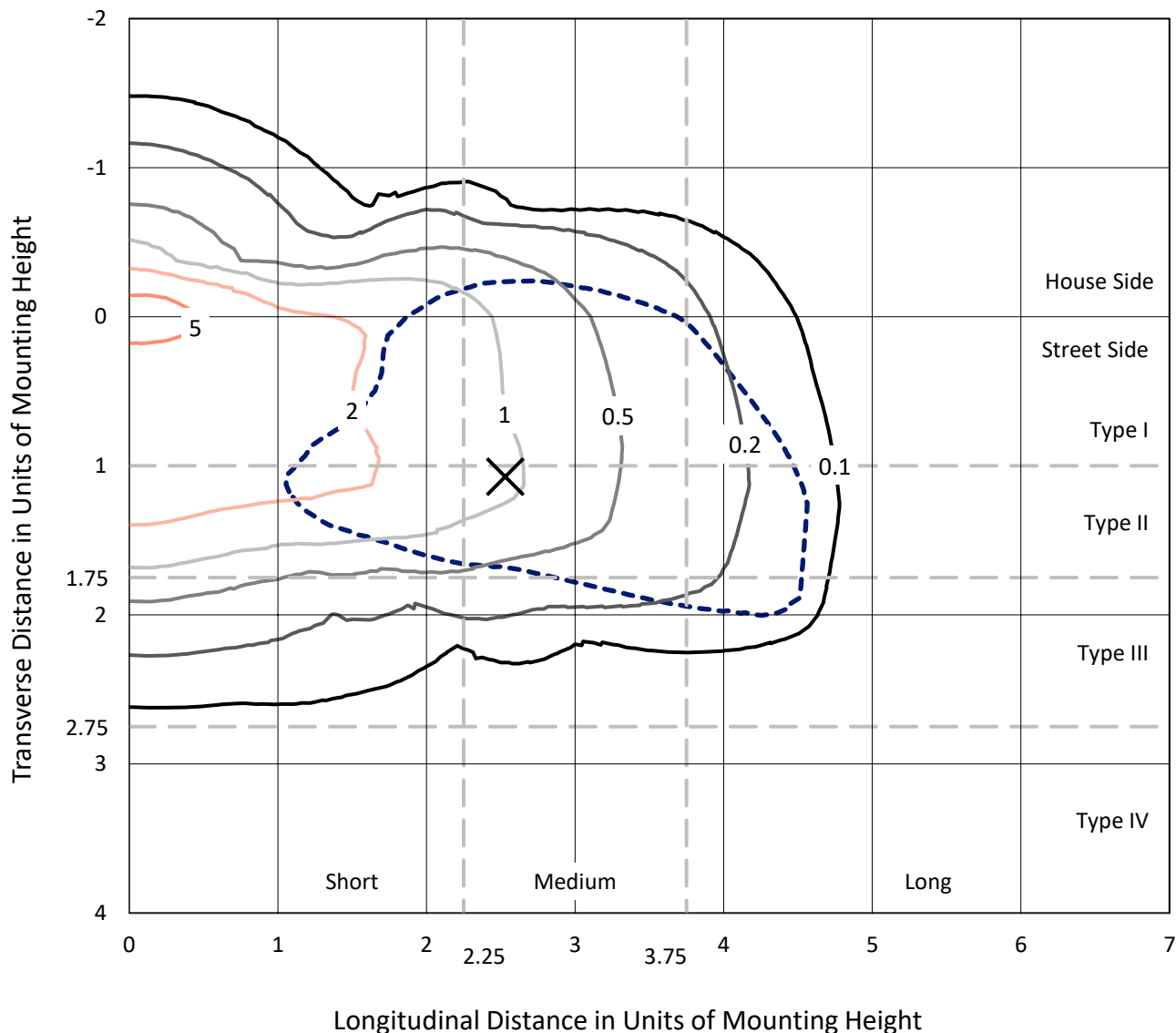
Lumens per Lamp: N/A
Luminaire Lumens: 18413 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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

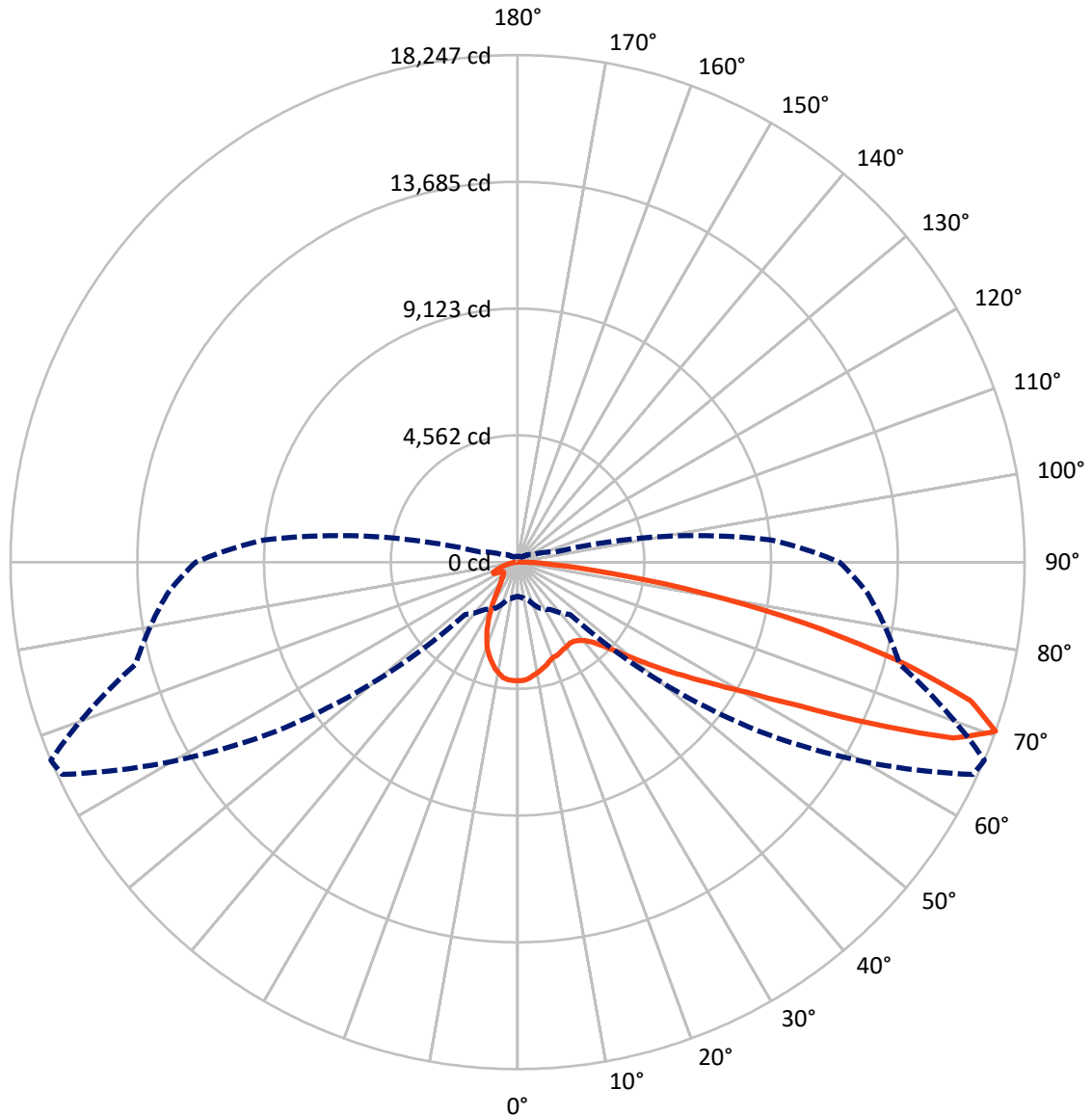
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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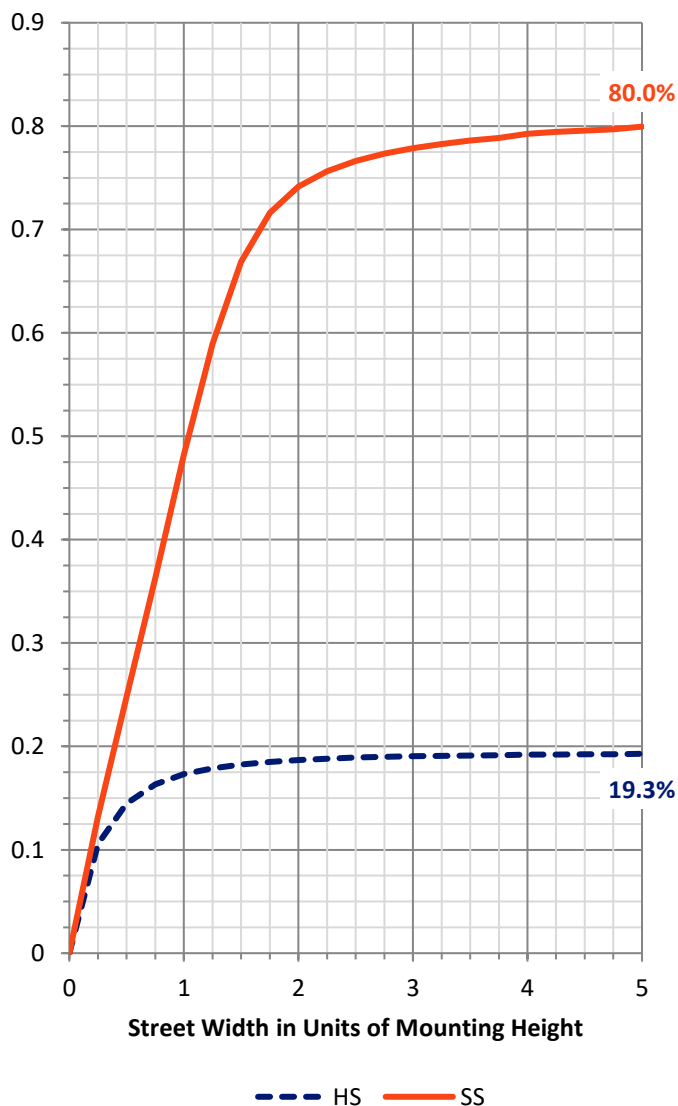
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3586.1	0.0	3586.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14826.9	0.0	14826.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	18413.0	0.0	18413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	2.0
10°-20°	890.7	4.8
20°-30°	1202.9	6.5
30°-40°	1609.5	8.7
40°-50°	2366.8	12.9
50°-60°	3689.2	20.0
60°-70°	4544.5	24.7
70°-80°	3211.1	17.4
80°-90°	526.3	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°	18413.0	100.0
0°-180°	18413.0	100.0

Coefficient of Utilization

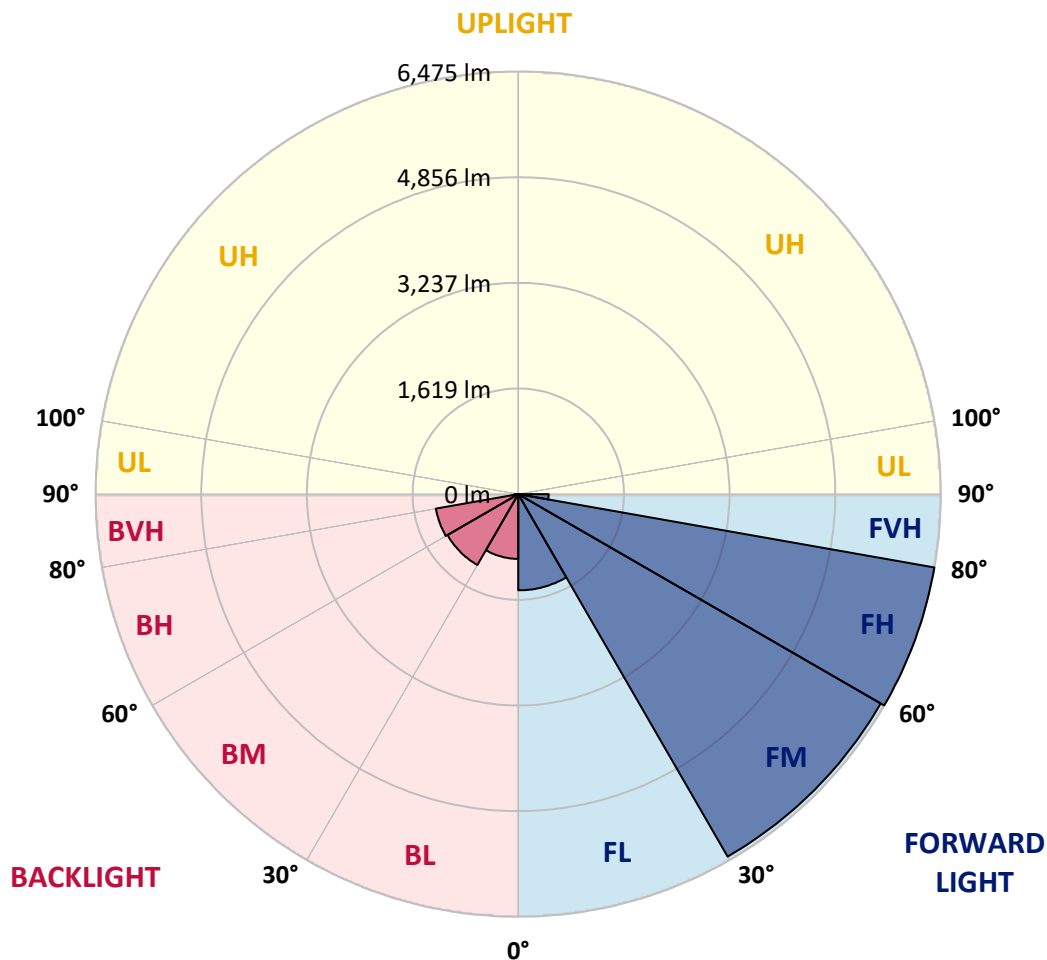


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1473.8	8.0			
FM (30°-60°)	6412.9	34.8			
FH (60°-80°)	6474.6	35.2			G3/7500
FVH (80°-90°)	465.6	2.5			G3/500
BL (0°-30°)	991.7	5.4	B2/1000		
BM (30°-60°)	1252.7	6.8	B2/2500		
BH (60°-80°)	1281.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	60.7	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6
2.5°	3969.0	4013.9	4030.2	4054.6	4117.8	4164.7	4193.2	4225.9	4264.6	4297.2	4317.6
5°	3691.8	3716.2	3755.0	3781.5	3861.0	3987.4	4073.0	4211.6	4207.5	4258.5	4335.9
7.5°	3422.7	3447.1	3465.5	3518.5	3632.7	3746.8	3903.8	4128.0	4111.7	4229.9	4350.2
10°	3255.5	3237.2	3243.3	3333.0	3422.7	3551.1	3748.9	3977.2	4036.3	4219.7	4391.0
12.5°	3098.6	3078.2	3127.1	3184.2	3294.3	3410.5	3646.9	3852.8	3942.5	4183.1	4409.3
15°	3000.7	2986.4	3047.6	3072.1	3202.5	3341.1	3508.3	3759.0	3856.9	4138.2	4380.8
17.5°	2945.7	2957.9	2980.3	3033.3	3116.9	3235.1	3418.6	3695.8	3738.7	4083.2	4374.7
20°	2955.9	2970.1	2972.2	2994.6	3051.7	3143.4	3331.0	3628.6	3657.1	4073.0	4391.0
22.5°	3037.4	3017.0	3025.2	3010.9	3027.2	3098.6	3263.7	3538.9	3649.0	3987.4	4356.3
25°	3159.7	3131.2	3127.1	3078.2	3047.6	3068.0	3251.4	3516.5	3587.8	3960.9	4354.3
27.5°	3375.8	3333.0	3333.0	3259.6	3135.3	3102.6	3216.8	3479.8	3543.0	3936.4	4307.4
30°	3583.7	3583.7	3585.8	3481.8	3343.2	3182.1	3231.1	3465.5	3506.3	3863.0	4244.2
32.5°	3836.5	3830.4	3820.2	3769.2	3555.2	3314.6	3300.4	3447.1	3467.5	3838.5	4225.9
35°	4083.2	4066.9	4146.4	4101.5	3883.4	3573.5	3371.7	3455.3	3500.1	3801.9	4168.8
37.5°	4268.7	4278.9	4444.0	4472.5	4285.0	3867.1	3573.5	3536.8	3579.7	3854.9	4168.8
40°	4509.2	4550.0	4704.9	4800.7	4686.6	4254.4	3893.6	3673.4	3704.0	3973.1	4258.5
42.5°	4825.2	4859.8	5057.6	5181.9	5149.3	4747.7	4209.6	3958.8	3934.4	4170.8	4393.0
45°	5243.1	5249.2	5449.0	5620.2	5687.5	5263.5	4711.0	4319.6	4299.3	4511.3	4639.7
47.5°	5740.5	5734.4	5858.7	6042.2	6223.6	5879.1	5287.9	4868.0	4794.6	4998.5	5049.4
50°	6221.6	6195.1	6223.6	6458.1	6806.6	6649.7	5989.2	5538.7	5465.3	5577.4	5665.1
52.5°	6486.6	6519.2	6441.7	6751.6	7426.4	7560.9	6918.8	6339.8	6276.6	6331.7	6484.6
55°	6301.1	6368.4	6317.4	6610.9	7697.5	8671.9	8121.5	7267.3	7185.8	7165.4	7416.2
57.5°	5512.2	5634.5	5644.7	6109.5	7603.7	9532.1	9813.5	8362.0	8239.7	8031.8	8290.7
60°	4232.0	4354.3	4448.1	4998.5	6800.5	10045.9	11774.5	9919.5	9515.8	8977.7	9132.6
62.5°	2966.1	3049.6	3143.4	3481.8	5243.1	9744.2	13470.6	12112.9	11368.9	9974.5	10168.2
65°	2160.8	2226.1	2321.9	2521.7	3220.9	8062.4	14257.5	14718.2	14012.8	11242.5	11218.0
67.5°	1626.7	1667.5	1793.9	2114.0	2232.2	4980.1	13442.0	17470.2	16899.4	12651.1	12062.0
70°	1231.3	1265.9	1384.2	1822.4	2085.4	2670.5	10604.4	18083.8	18246.9	14231.0	12628.7
72.5°	848.0	886.8	1019.3	1518.7	1985.5	2118.0	6655.8	16428.5	17046.2	14881.2	12021.2
75°	519.8	546.3	623.8	1151.8	1971.3	2071.1	3663.2	13462.4	14116.8	13749.9	10516.8
77.5°	366.9	364.9	379.2	674.8	1708.3	2083.4	2258.7	9864.4	10500.4	10133.5	7136.9
80°	267.0	269.1	283.4	403.6	1159.9	2118.0	1779.6	6606.9	6796.4	5283.9	2815.2
82.5°	161.0	169.2	203.9	273.2	697.2	1912.1	1645.1	3671.4	3434.9	1696.1	774.6
85°	85.6	85.6	120.3	173.3	371.0	1427.0	1583.9	1747.0	1463.7	525.9	287.4
87.5°	20.4	20.4	34.7	69.3	148.8	682.9	1080.4	695.1	556.5	177.4	118.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6	4262.6
2.5°	4309.4	4285.0	4315.6	4254.4	4205.5	4207.5	4132.1	4128.0	4117.8	4064.8	4083.2
5°	4358.4	4338.0	4303.3	4236.1	4128.0	4020.0	3954.7	3871.2	3836.5	3818.2	3826.3
7.5°	4405.3	4368.6	4268.7	4174.9	4007.7	3803.9	3685.7	3573.5	3430.8	3414.5	3386.0
10°	4417.5	4340.0	4211.6	4011.8	3789.6	3563.3	3294.3	3086.3	2976.2	2890.6	2858.0
12.5°	4399.1	4366.5	4119.9	3863.0	3526.7	3171.9	2858.0	2564.5	2360.6	2254.6	2226.1
15°	4397.1	4340.0	4017.9	3636.7	3206.6	2743.9	2297.4	1944.8	1730.7	1643.1	1643.1
17.5°	4399.1	4262.6	3897.7	3408.4	2829.5	2203.6	1712.4	1422.9	1304.7	1292.4	1302.6
20°	4358.4	4205.5	3771.3	3139.3	2356.5	1655.3	1243.5	1125.3	1125.3	1141.6	1147.7
22.5°	4321.7	4119.9	3571.5	2807.1	1875.4	1198.7	1011.1	976.5	1015.2	1043.7	1056.0
25°	4270.7	4048.5	3367.6	2462.5	1427.0	966.3	878.6	886.8	923.5	974.4	970.3
27.5°	4197.3	3924.2	3125.1	2063.0	1062.1	833.8	811.3	815.4	854.1	876.6	872.5
30°	4113.7	3797.8	2900.8	1665.5	841.9	764.4	762.4	772.6	778.7	790.9	788.9
32.5°	4007.7	3630.6	2662.3	1294.5	758.3	725.7	717.6	711.4	717.6	715.5	709.4
35°	3932.3	3540.9	2419.7	986.6	711.4	691.1	684.9	674.8	666.6	654.4	652.3
37.5°	3911.9	3451.2	2164.9	805.2	674.8	664.6	644.2	625.8	615.6	609.5	605.4
40°	3899.7	3392.1	1916.2	707.4	644.2	634.0	609.5	585.1	574.9	568.7	570.8
42.5°	3942.5	3359.5	1663.4	658.4	617.7	599.3	572.8	544.3	542.2	538.2	544.3
45°	4093.4	3400.3	1429.0	623.8	591.2	560.6	525.9	511.7	509.6	505.6	509.6
47.5°	4435.8	3502.2	1229.2	601.4	562.6	536.1	499.4	479.1	477.0	475.0	475.0
50°	4908.8	3816.1	1062.1	574.9	544.3	507.6	472.9	450.5	446.4	438.3	438.3
52.5°	5650.8	4344.1	962.2	560.6	511.7	481.1	444.4	419.9	409.7	401.6	401.6
55°	6486.6	4998.5	943.8	536.1	477.0	448.5	415.9	391.4	381.2	371.0	366.9
57.5°	7438.6	5864.8	1074.3	519.8	452.6	415.9	379.2	356.7	348.6	338.4	334.3
60°	8325.3	6729.2	1480.0	495.4	430.1	385.3	348.6	326.2	316.0	305.8	305.8
62.5°	9350.7	7799.4	2167.0	495.4	409.7	352.7	316.0	299.7	293.5	283.4	281.3
65°	10563.6	8906.3	2668.4	525.9	403.6	324.1	285.4	269.1	263.0	256.9	254.8
67.5°	11487.1	9542.3	2295.4	607.5	430.1	299.7	254.8	244.6	240.5	234.4	230.4
70°	11584.9	9155.0	1384.2	656.4	456.6	275.2	228.3	218.1	218.1	212.0	207.9
72.5°	10706.3	8123.5	931.6	585.1	413.8	246.7	201.8	193.7	189.6	185.5	183.5
75°	8959.3	6890.2	735.9	466.8	318.0	203.9	175.3	167.2	161.0	159.0	154.9
77.5°	6017.7	4478.6	544.3	364.9	234.4	165.1	146.8	138.6	132.5	130.5	124.4
80°	2311.7	1706.2	350.6	265.0	165.1	130.5	116.2	108.0	104.0	97.8	93.8
82.5°	680.9	552.4	195.7	163.1	106.0	89.7	83.6	77.5	71.3	65.2	63.2
85°	281.3	252.8	120.3	85.6	65.2	53.0	48.9	42.8	36.7	32.6	28.5
87.5°	130.5	108.0	55.0	32.6	22.4	12.2	6.1	2.0	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)