

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: P480010

Luminaire Tested: **IFLD-M-SA4B-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

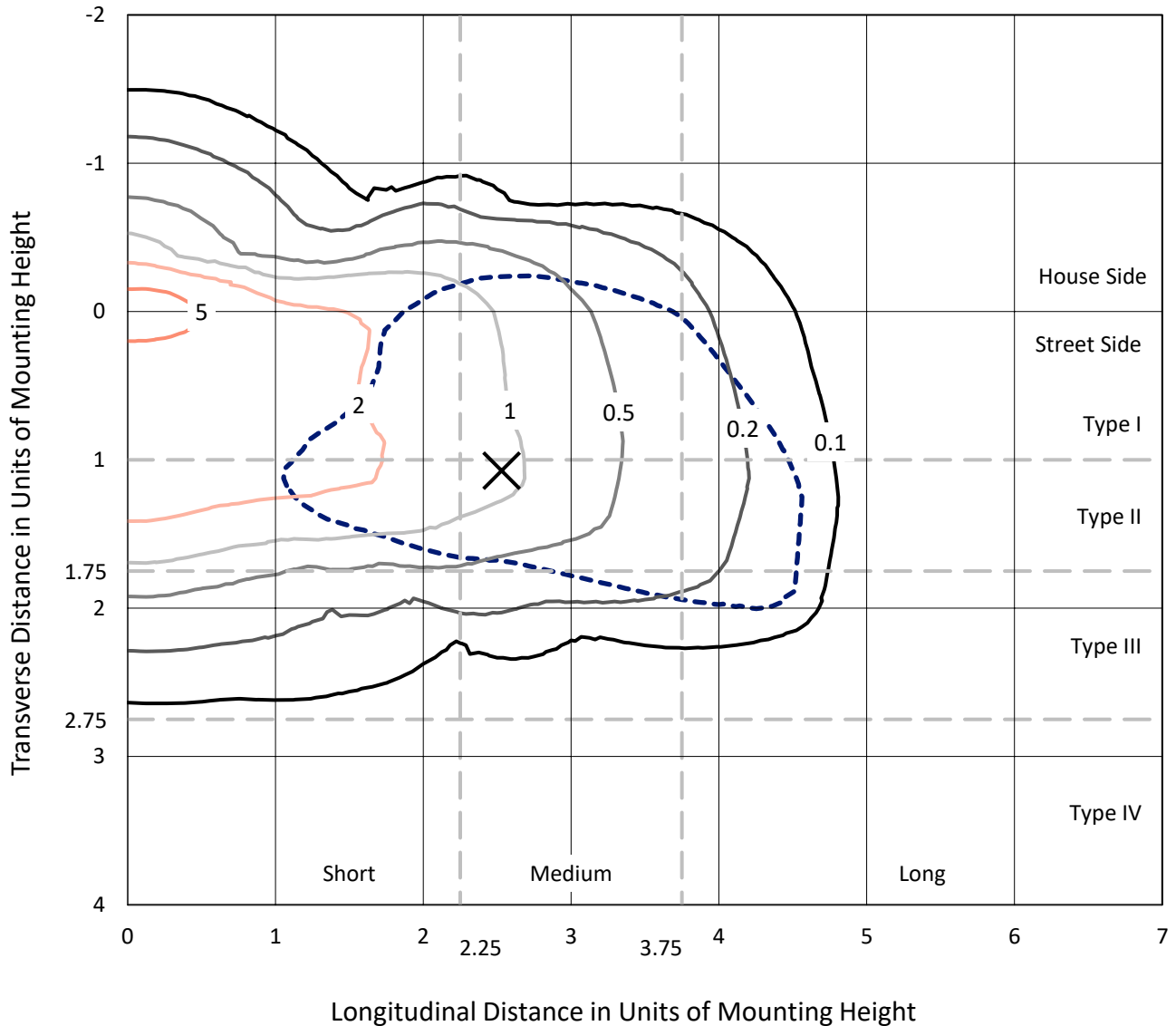
Lumens per Lamp: N/A
Luminaire Lumens: 19044.4 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

REPORT NUMBER: P480010
 CATALOG NUMBER: IFLD-M-SA4B-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

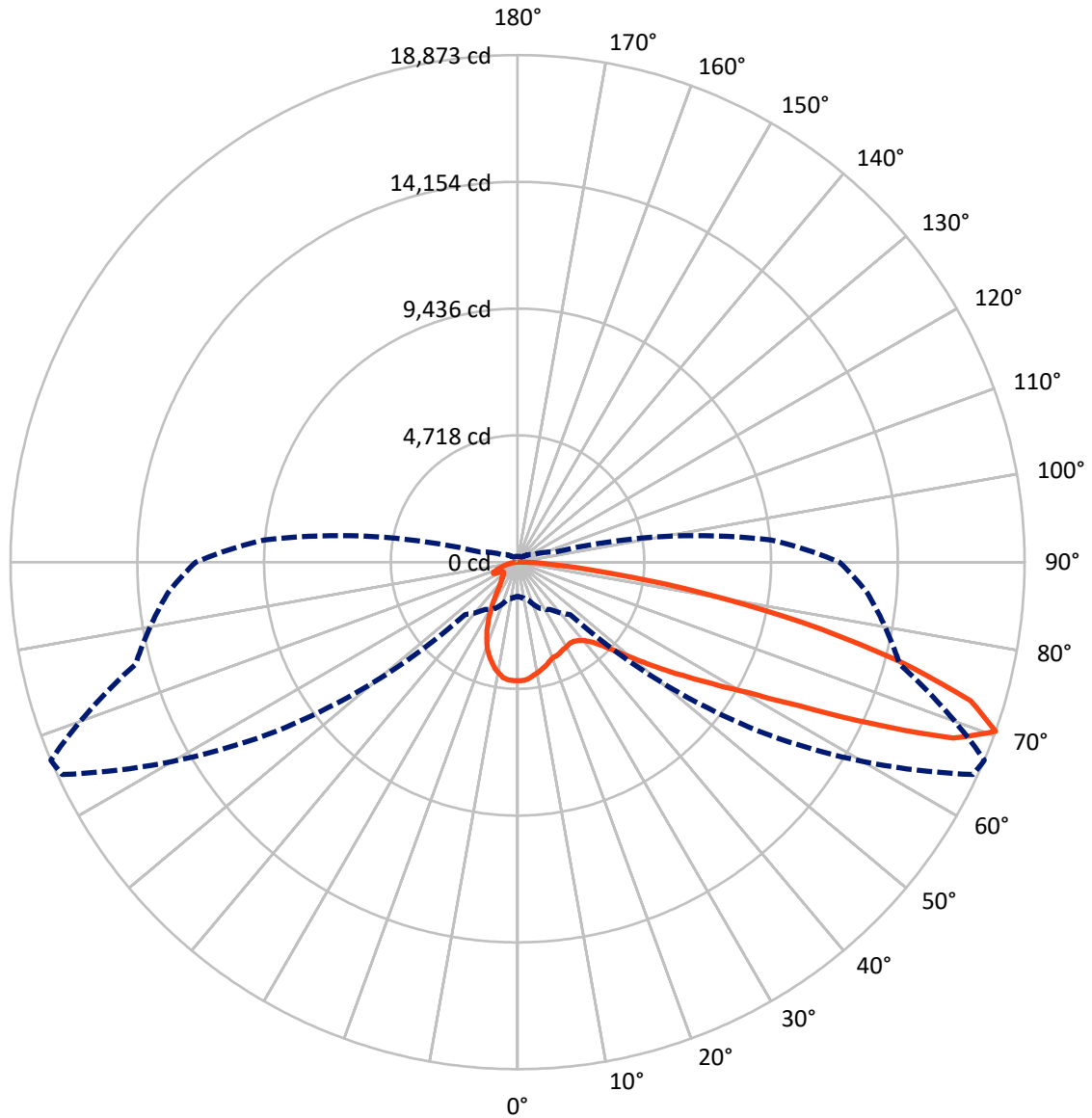
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P480010
CATALOG NUMBER: IFLD-M-SA4B-727-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480010

CATALOG NUMBER: IFLD-M-SA4B-727-U-SL2

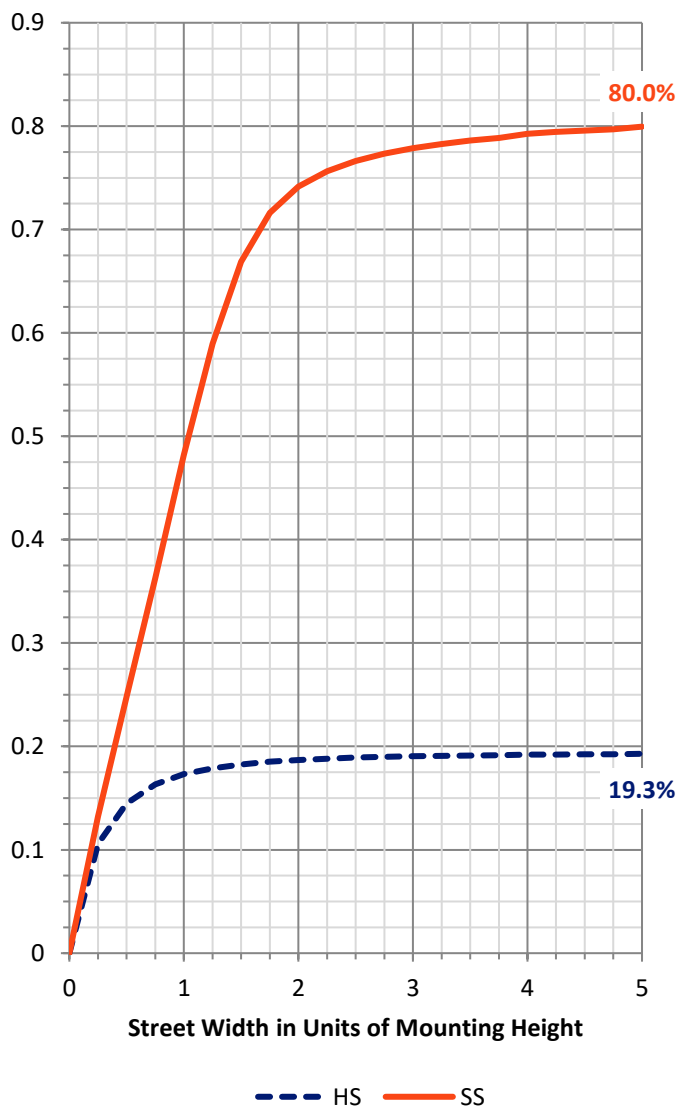
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3709.1	0.0	3709.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15335.3	0.0	15335.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	19044.4	0.0	19044.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.7	2.0
10°-20°	921.3	4.8
20°-30°	1244.1	6.5
30°-40°	1664.7	8.7
40°-50°	2448.0	12.9
50°-60°	3815.7	20.0
60°-70°	4700.4	24.7
70°-80°	3321.2	17.4
80°-90°	544.4	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°	19044.4	100.0
0°-180°	19044.4	100.0

Coefficient of Utilization



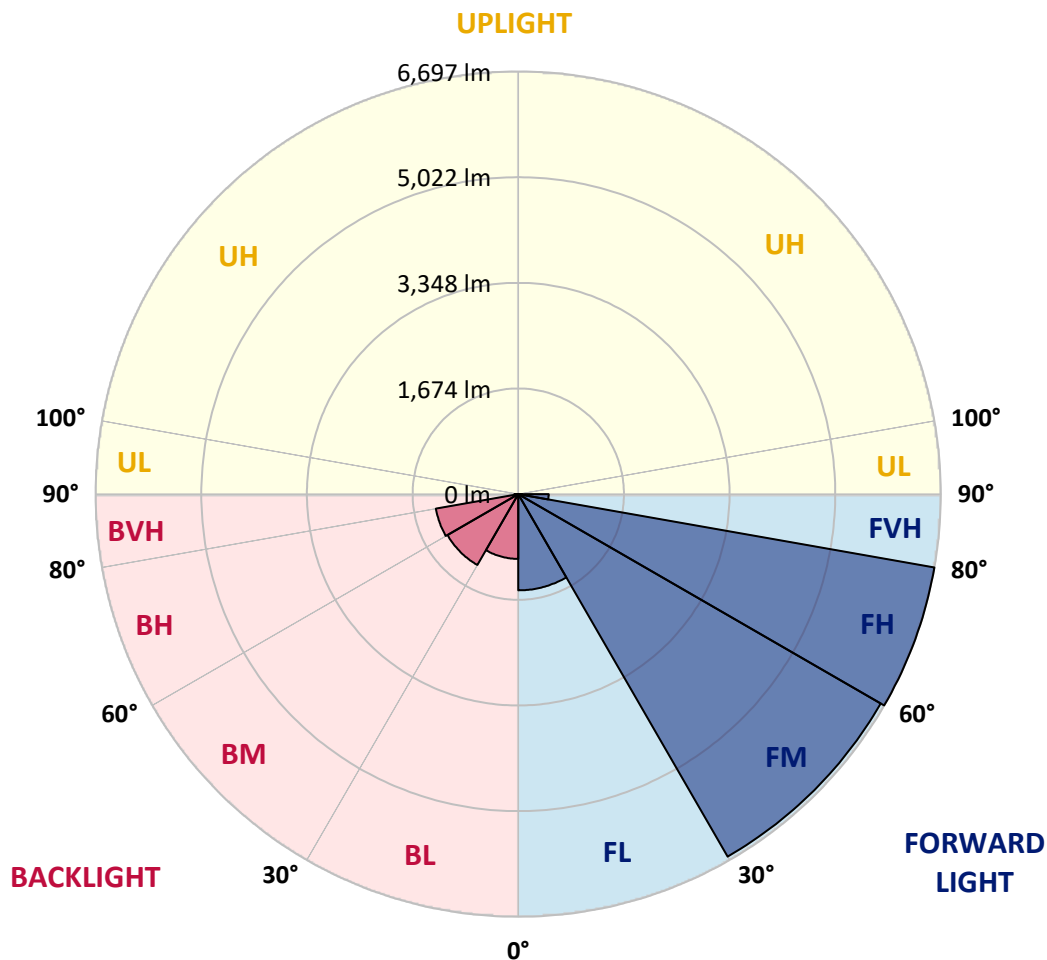
REPORT NUMBER: P480010
 CATALOG NUMBER: IFLD-M-SA4B-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.4	8.0			
FM (30°-60°)	6632.8	34.8			
FH (60°-80°)	6696.7	35.2			G3/7500
FVH (80°-90°)	481.6	2.5			G3/500
BL (0°-30°)	1025.7	5.4	B3/2500		
BM (30°-60°)	1295.7	6.8	B2/2500		
BH (60°-80°)	1324.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	62.8	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





REPORT NUMBER: P480010

CATALOG NUMBER: IFLD-M-SA4B-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7
2.5°	4105.1	4151.5	4168.4	4193.7	4259.0	4307.5	4337.0	4370.8	4410.8	4444.6	4465.7
5°	3818.4	3843.7	3883.7	3911.1	3993.4	4124.1	4212.6	4356.0	4351.8	4404.5	4484.6
7.5°	3540.1	3565.4	3584.3	3639.1	3757.2	3875.3	4037.6	4269.6	4252.7	4375.0	4499.4
10°	3367.2	3348.2	3354.5	3447.3	3540.1	3672.9	3877.4	4113.5	4174.7	4364.4	4541.6
12.5°	3204.8	3183.7	3234.3	3293.4	3407.2	3527.4	3772.0	3984.9	4077.7	4326.5	4560.5
15°	3103.6	3088.8	3152.1	3177.4	3312.3	3455.7	3628.6	3887.9	3989.1	4280.1	4531.0
17.5°	3046.7	3059.3	3082.5	3137.3	3223.8	3346.1	3535.8	3822.6	3866.9	4223.2	4524.7
20°	3057.2	3072.0	3074.1	3097.3	3156.3	3251.2	3445.2	3753.0	3782.5	4212.6	4541.6
22.5°	3141.6	3120.5	3128.9	3114.1	3131.0	3204.8	3375.6	3660.2	3774.1	4124.1	4505.7
25°	3268.1	3238.5	3234.3	3183.7	3152.1	3173.2	3362.9	3637.0	3710.8	4096.7	4503.6
27.5°	3491.6	3447.3	3447.3	3371.4	3242.8	3209.0	3327.1	3599.1	3664.4	4071.4	4455.1
30°	3706.6	3706.6	3708.7	3601.2	3457.8	3291.3	3341.9	3584.3	3626.5	3995.5	4389.7
32.5°	3968.1	3961.7	3951.2	3898.5	3677.1	3428.3	3413.5	3565.4	3586.4	3970.2	4370.8
35°	4223.2	4206.3	4288.5	4242.2	4016.6	3696.1	3487.3	3573.8	3620.2	3932.2	4311.7
37.5°	4415.1	4425.6	4596.4	4625.9	4431.9	3999.7	3696.1	3658.1	3702.4	3987.0	4311.7
40°	4663.8	4706.0	4866.3	4965.4	4847.3	4400.3	4027.1	3799.4	3831.0	4109.3	4404.5
42.5°	4990.7	5026.5	5231.0	5359.6	5325.9	4910.5	4353.9	4094.6	4069.3	4313.8	4543.7
45°	5422.9	5429.2	5635.8	5812.9	5882.5	5444.0	4872.6	4467.8	4446.7	4666.0	4798.8
47.5°	5937.3	5931.0	6059.6	6249.4	6437.0	6080.7	5469.3	5034.9	4959.0	5169.9	5222.6
50°	6434.9	6407.5	6437.0	6679.5	7040.0	6877.7	6194.6	5728.6	5652.7	5768.7	5859.3
52.5°	6709.0	6742.8	6662.6	6983.1	7681.0	7820.2	7156.0	6557.2	6491.9	6548.8	6706.9
55°	6517.2	6586.7	6534.0	6837.6	7961.4	8969.3	8400.0	7516.5	7432.2	7411.1	7670.5
57.5°	5701.2	5827.7	5838.2	6319.0	7864.4	9859.0	10150.0	8648.8	8522.3	8307.2	8575.0
60°	4377.1	4503.6	4600.6	5169.9	7033.7	10390.3	12178.3	10259.6	9842.1	9285.5	9445.8
62.5°	3067.8	3154.2	3251.2	3601.2	5422.9	10078.3	13932.5	12528.3	11758.7	10316.5	10516.8
65°	2234.9	2302.4	2401.5	2608.1	3331.3	8338.8	14746.4	15222.9	14493.3	11628.0	11602.7
67.5°	1682.5	1724.7	1855.4	2186.4	2308.7	5150.9	13903.0	18069.2	17478.9	13084.9	12475.6
70°	1273.5	1309.3	1431.6	1884.9	2156.9	2762.0	10968.0	18703.9	18872.5	14718.9	13061.7
72.5°	877.1	917.2	1054.2	1570.8	2053.6	2190.7	6884.0	16991.8	17630.7	15391.5	12433.4
75°	537.6	565.1	645.2	1191.3	2038.9	2142.2	3788.8	13924.1	14600.9	14221.4	10877.4
77.5°	379.5	377.4	392.2	697.9	1766.9	2154.8	2336.1	10202.7	10860.5	10481.0	7381.6
80°	276.2	278.3	293.1	417.5	1199.7	2190.7	1840.7	6833.4	7029.5	5465.0	2911.7
82.5°	166.6	175.0	210.8	282.5	721.1	1977.7	1701.5	3797.3	3552.7	1754.2	801.2
85°	88.6	88.6	124.4	179.2	383.7	1475.9	1638.2	1806.9	1513.9	544.0	297.3
87.5°	21.1	21.1	35.8	71.7	153.9	706.3	1117.5	719.0	575.6	183.4	122.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480010
 CATALOG NUMBER: IFLD-M-SA4B-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7	4408.7
2.5°	4457.2	4431.9	4463.5	4400.3	4349.7	4351.8	4273.8	4269.6	4259.0	4204.2	4223.2
5°	4507.8	4486.7	4450.9	4381.3	4269.6	4157.8	4090.4	4003.9	3968.1	3949.1	3957.5
7.5°	4556.3	4518.4	4415.1	4318.1	4145.2	3934.3	3812.0	3696.1	3548.5	3531.6	3502.1
10°	4569.0	4488.8	4356.0	4149.4	3919.6	3685.5	3407.2	3192.2	3078.3	2989.8	2956.0
12.5°	4550.0	4516.3	4261.1	3995.5	3647.6	3280.7	2956.0	2652.4	2441.6	2331.9	2302.4
15°	4547.9	4488.8	4155.7	3761.4	3316.6	2837.9	2376.2	2011.4	1790.1	1699.4	1699.4
17.5°	4550.0	4408.7	4031.3	3525.3	2926.5	2279.2	1771.1	1471.7	1349.4	1336.7	1347.3
20°	4507.8	4349.7	3900.6	3247.0	2437.3	1712.0	1286.1	1163.9	1163.9	1180.7	1187.0
22.5°	4469.9	4261.1	3694.0	2903.3	1939.8	1239.8	1045.8	1009.9	1050.0	1079.5	1092.2
25°	4417.2	4187.3	3483.1	2547.0	1475.9	999.4	908.7	917.2	955.1	1007.8	1003.6
27.5°	4341.3	4058.7	3232.2	2133.7	1098.5	862.3	839.2	843.4	883.4	906.6	902.4
30°	4254.8	3928.0	3000.3	1722.6	870.8	790.7	788.6	799.1	805.4	818.1	816.0
32.5°	4145.2	3755.1	2753.6	1338.9	784.3	750.6	742.2	735.8	742.2	740.1	733.7
35°	4067.2	3662.3	2502.7	1020.5	735.8	714.8	708.4	697.9	689.5	676.8	674.7
37.5°	4046.1	3569.6	2239.2	832.8	697.9	687.3	666.3	647.3	636.7	630.4	626.2
40°	4033.4	3508.4	1981.9	731.6	666.3	655.7	630.4	605.1	594.6	588.3	590.4
42.5°	4077.7	3474.7	1720.5	681.0	638.9	619.9	592.5	563.0	560.8	556.6	563.0
45°	4233.7	3516.9	1478.0	645.2	611.4	579.8	544.0	529.2	527.1	522.9	527.1
47.5°	4587.9	3622.3	1271.4	622.0	581.9	554.5	516.6	495.5	493.4	491.3	491.3
50°	5077.1	3947.0	1098.5	594.6	563.0	525.0	489.2	466.0	461.7	453.3	453.3
52.5°	5844.6	4493.1	995.2	579.8	529.2	497.6	459.6	434.3	423.8	415.4	415.4
55°	6709.0	5169.9	976.2	554.5	493.4	463.9	430.1	404.8	394.3	383.7	379.5
57.5°	7693.7	6066.0	1111.1	537.6	468.1	430.1	392.2	369.0	360.5	350.0	345.8
60°	8610.8	6959.9	1530.7	512.3	444.9	398.5	360.5	337.3	326.8	316.3	316.3
62.5°	9671.4	8066.8	2241.3	512.3	423.8	364.8	326.8	309.9	303.6	293.1	291.0
65°	10925.9	9211.7	2759.9	544.0	417.5	335.2	295.2	278.3	272.0	265.7	263.6
67.5°	11881.0	9869.6	2374.1	628.3	444.9	309.9	263.6	253.0	248.8	242.5	238.3
70°	11982.2	9469.0	1431.6	678.9	472.3	284.6	236.1	225.6	225.6	219.3	215.1
72.5°	11073.5	8402.1	963.6	605.1	428.0	255.1	208.7	200.3	196.1	191.9	189.8
75°	9266.5	7126.5	761.1	482.8	328.9	210.8	181.3	172.9	166.6	164.5	160.2
77.5°	6224.1	4632.2	563.0	377.4	242.5	170.8	151.8	143.4	137.0	134.9	128.6
80°	2391.0	1764.8	362.6	274.1	170.8	134.9	120.2	111.7	107.5	101.2	97.0
82.5°	704.2	571.4	202.4	168.7	109.6	92.8	86.4	80.1	73.8	67.5	65.4
85°	291.0	261.4	124.4	88.6	67.5	54.8	50.6	44.3	38.0	33.7	29.5
87.5°	134.9	111.7	56.9	33.7	23.2	12.7	6.3	2.1	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)