

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: P480497

Luminaire Tested: **IFLD-S-SA3B-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480497  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

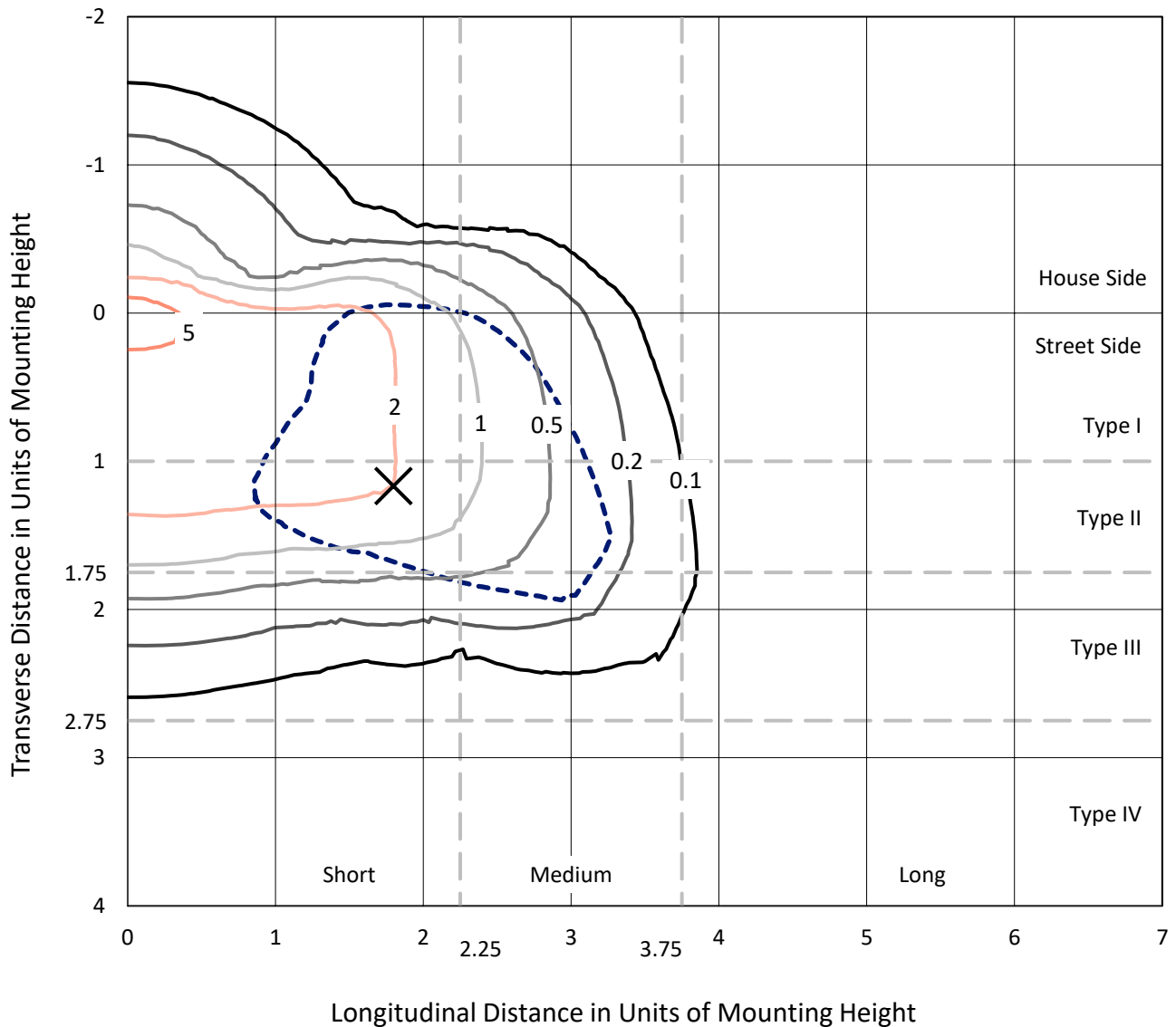
Lumens per Lamp: N/A  
Luminaire Lumens: 16790 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
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

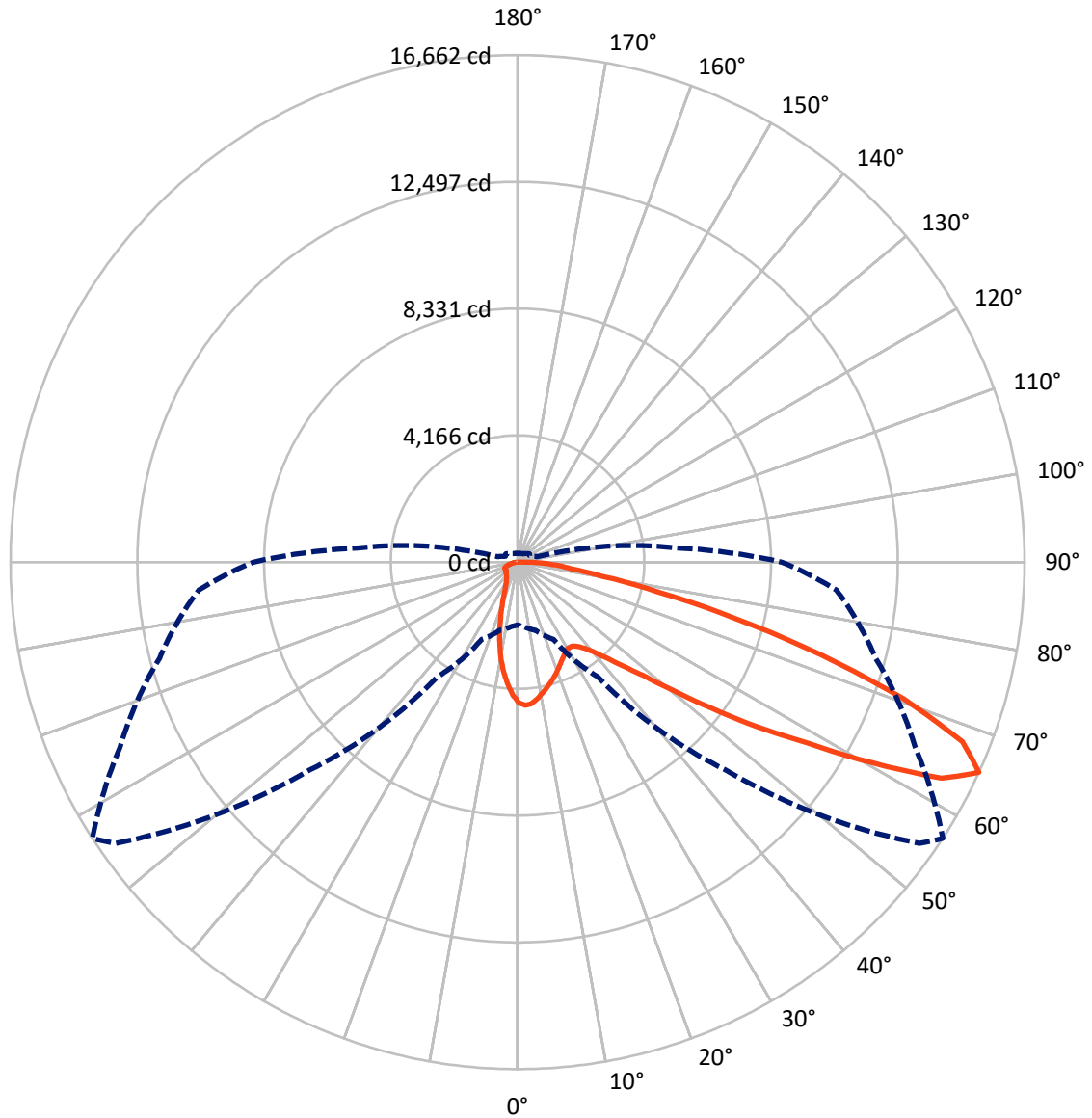
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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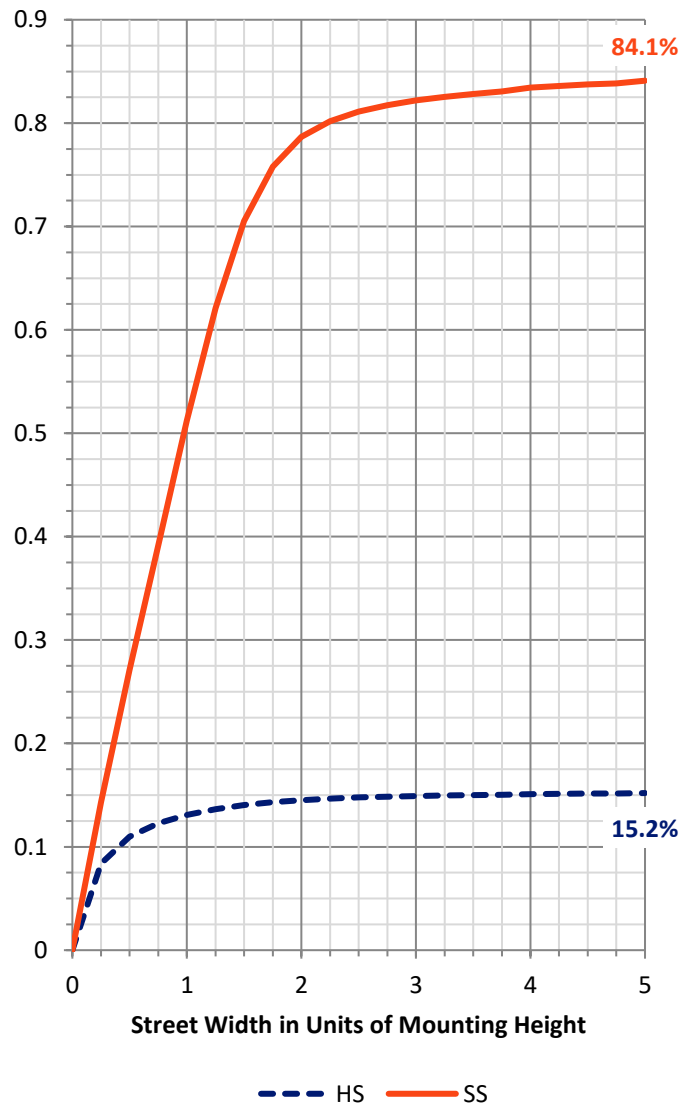
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2574.9	0.0	2574.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	14215.1	0.0	14215.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	16790.0	0.0	16790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.6	2.3
10°-20°	832.1	5.0
20°-30°	1075.8	6.4
30°-40°	1447.7	8.6
40°-50°	2308.5	13.7
50°-60°	4077.3	24.3
60°-70°	4485.6	26.7
70°-80°	1876.4	11.2
80°-90°	299.9	1.8
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°	16790.0	100.0
0°-180°	16790.0	100.0

**Coefficient of Utilization**



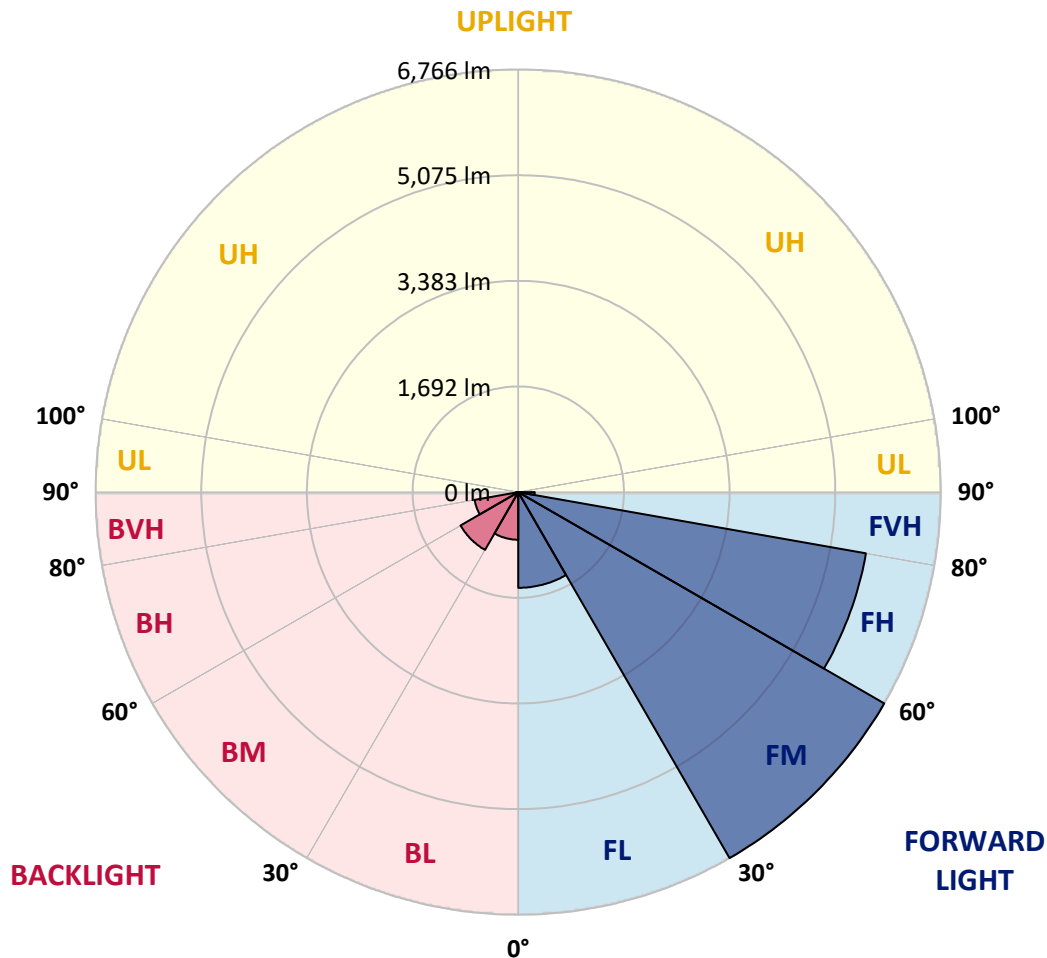
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.0	9.1			
FM (30°-60°)	6766.3	40.3			
FH (60°-80°)	5652.0	33.7			G3/7500
FVH (80°-90°)	264.7	1.6			G3/500
BL (0°-30°)	762.6	4.5	B2/1000		
BM (30°-60°)	1067.2	6.4	B2/2500		
BH (60°-80°)	710.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	35.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0
2.5°	4741.7	4749.2	4749.2	4764.4	4713.4	4737.9	4734.1	4711.5	4719.0	4679.4	4639.7
5°	4607.6	4601.9	4632.1	4635.9	4675.6	4686.9	4696.4	4681.2	4685.0	4598.1	4560.3
7.5°	4263.7	4261.9	4312.9	4356.3	4439.4	4516.9	4567.9	4552.8	4573.6	4518.8	4430.0
10°	3855.7	3899.1	3952.0	3995.5	4148.5	4246.7	4379.0	4392.2	4471.5	4458.3	4297.7
12.5°	3549.7	3568.5	3608.2	3732.9	3872.7	4035.2	4224.1	4241.1	4318.5	4356.3	4216.5
15°	3298.4	3315.4	3366.4	3459.0	3615.8	3808.5	4048.4	4091.8	4246.7	4260.0	4110.7
17.5°	3115.2	3128.4	3162.4	3255.0	3383.4	3630.9	3857.6	3935.0	4139.1	4203.3	4001.2
20°	3043.4	3015.0	3033.9	3092.5	3221.0	3411.8	3704.6	3772.6	4033.3	4159.8	3897.3
22.5°	3011.3	2986.7	2998.0	2994.3	3096.3	3232.3	3540.2	3612.0	3933.1	4108.8	3804.7
25°	3035.8	3035.8	3024.5	3015.0	3026.4	3115.2	3362.6	3474.1	3799.0	4065.4	3710.2
27.5°	3168.1	3117.0	3122.7	3083.0	3071.7	3071.7	3283.3	3349.4	3755.6	4040.8	3632.8
30°	3253.1	3277.6	3279.5	3221.0	3162.4	3056.6	3209.6	3273.8	3719.7	4071.1	3587.4
32.5°	3470.3	3459.0	3426.9	3415.5	3328.6	3209.6	3245.5	3289.0	3698.9	4139.1	3600.7
35°	3687.6	3681.9	3683.8	3678.1	3587.4	3411.8	3341.9	3400.4	3736.7	4258.1	3646.0
37.5°	3912.4	3927.5	3991.7	3991.7	3895.4	3704.6	3612.0	3595.0	3874.6	4452.7	3753.7
40°	4137.2	4175.0	4256.2	4384.6	4248.6	4071.1	3921.8	3895.4	4040.8	4713.4	4012.5
42.5°	4352.5	4414.9	4575.4	4766.3	4720.9	4543.3	4345.0	4314.8	4382.8	5100.6	4373.3
45°	4628.3	4681.2	4934.4	5227.2	5289.5	5132.7	4900.4	4875.8	4872.0	5667.4	4870.2
47.5°	5047.7	5104.4	5357.5	5652.2	5844.9	5869.5	5608.8	5582.4	5491.7	6432.5	5597.5
50°	5572.9	5665.5	5878.9	6222.8	6502.4	6764.9	6691.3	6613.8	6436.2	7322.2	6519.4
52.5°	5956.4	6069.7	6358.8	6798.9	7292.0	7709.5	7974.0	7974.0	7565.9	8298.9	7628.3
55°	6058.4	6126.4	6491.0	7127.7	7972.1	9028.1	9581.6	9540.1	8911.0	9326.6	8918.5
57.5°	5652.2	5741.0	6183.1	6850.0	8329.1	10261.7	11177.9	11187.4	10380.7	10520.5	10191.8
60°	4533.9	4562.2	5083.6	5975.3	7985.3	11255.4	13358.0	13393.9	12052.6	11584.1	10839.8
62.5°	3134.1	3224.7	3617.7	4399.8	6615.7	11143.9	15460.6	15638.1	13392.0	12145.2	10941.8
65°	2062.9	2117.7	2327.4	2803.5	4605.7	9659.1	16114.2	16662.0	14415.9	12177.3	10514.8
67.5°	1496.2	1505.6	1568.0	1813.6	2767.6	6946.3	14997.7	15770.4	14799.4	11909.0	9513.6
70°	1209.0	1216.6	1239.3	1396.1	1787.1	4346.9	12232.1	13443.0	13648.9	10637.6	7662.3
72.5°	982.3	991.8	1020.1	1167.5	1473.5	2418.1	8945.0	10420.4	11102.4	7870.1	5093.1
75°	772.7	780.2	848.2	993.7	1384.7	1660.5	5933.7	7378.9	7471.5	4600.0	2384.1
77.5°	529.0	542.2	625.3	842.5	1303.5	1452.7	3698.9	4726.6	4241.1	1800.3	819.9
80°	336.3	355.2	404.3	638.5	1152.4	1386.6	2300.9	2822.3	1857.0	615.9	394.8
82.5°	198.4	217.2	266.4	413.7	904.9	1286.5	1620.9	1766.3	870.9	315.5	238.0
85°	109.6	122.8	160.6	249.4	530.8	1142.9	1297.8	1267.6	498.7	168.1	149.2
87.5°	35.9	41.6	58.6	100.1	219.1	538.4	778.3	731.1	258.8	77.5	58.6
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°	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0	4617.0
2.5°	4613.2	4607.6	4522.6	4458.3	4348.8	4258.1	4222.2	4173.1	4171.2	4135.3	4125.8
5°	4501.8	4443.2	4312.9	4188.2	3993.6	3863.3	3744.2	3661.1	3627.1	3553.4	3536.4
7.5°	4358.2	4280.7	4080.5	3846.2	3617.7	3413.6	3228.5	3043.4	2939.5	2903.6	2863.9
10°	4209.0	4072.9	3776.4	3513.8	3194.5	2880.9	2590.0	2329.3	2187.6	2087.5	2044.0
12.5°	4089.9	3908.6	3530.8	3137.8	2716.6	2297.2	1959.0	1685.1	1524.5	1449.0	1415.0
15°	3955.8	3715.9	3262.5	2765.7	2240.5	1764.4	1433.8	1218.5	1154.3	1118.4	1112.7
17.5°	3814.1	3536.4	2971.6	2399.2	1775.8	1328.1	1114.6	1027.7	999.3	984.2	976.7
20°	3681.9	3375.9	2673.1	1991.1	1390.4	1065.5	965.3	920.0	918.1	925.7	923.8
22.5°	3494.9	3166.2	2378.4	1613.3	1110.8	927.6	863.3	852.0	863.3	872.8	876.6
25°	3389.1	2994.3	2049.7	1280.8	918.1	823.7	802.9	799.1	816.1	827.4	825.5
27.5°	3279.5	2816.7	1743.7	1025.8	804.8	750.0	746.2	750.0	767.0	784.0	782.1
30°	3194.5	2675.0	1456.5	857.7	717.9	697.1	693.3	697.1	706.5	708.4	708.4
32.5°	3124.6	2506.9	1212.8	744.3	665.0	648.0	651.7	649.9	651.7	653.6	655.5
35°	3083.0	2406.7	1012.6	674.4	621.5	608.3	606.4	600.7	602.6	604.5	602.6
37.5°	3171.8	2357.6	853.9	625.3	591.3	580.0	576.2	572.4	566.7	566.7	566.7
40°	3306.0	2331.2	757.5	593.2	568.6	555.4	544.1	540.3	540.3	542.2	544.1
42.5°	3572.3	2374.6	691.4	568.6	540.3	525.2	513.8	515.7	521.4	527.1	523.3
45°	3957.7	2506.9	661.2	549.7	523.3	502.5	494.9	493.1	498.7	508.2	515.7
47.5°	4462.1	2712.8	649.9	532.7	512.0	483.6	474.2	479.8	487.4	500.6	494.9
50°	5287.6	3175.6	659.3	517.6	494.9	474.2	462.8	457.2	462.8	472.3	476.1
52.5°	6366.3	4016.3	695.2	510.1	483.6	466.6	447.7	438.3	443.9	451.5	451.5
55°	7656.6	5164.9	795.3	500.6	464.7	455.3	434.5	415.6	419.4	419.4	417.5
57.5°	8793.9	6032.0	914.3	487.4	453.4	440.2	413.7	391.0	387.3	389.2	391.0
60°	9303.9	6262.4	971.0	483.6	453.4	421.3	385.4	362.7	357.0	353.3	353.3
62.5°	9215.1	5863.8	855.8	466.6	464.7	406.2	358.9	334.4	326.8	319.3	321.2
65°	8678.6	5295.2	674.4	443.9	466.6	396.7	332.5	307.9	294.7	285.3	283.4
67.5°	7698.2	4520.7	534.6	426.9	447.7	379.7	309.8	281.5	270.1	260.7	256.9
70°	6022.5	3544.0	464.7	404.3	402.4	338.2	283.4	258.8	241.8	230.5	230.5
72.5°	3904.8	2240.5	398.6	358.9	347.6	283.4	245.6	230.5	217.2	207.8	207.8
75°	1768.2	1040.9	321.2	300.4	283.4	226.7	207.8	200.2	188.9	179.5	179.5
77.5°	634.7	443.9	239.9	236.1	211.6	175.7	168.1	162.5	154.9	145.5	145.5
80°	355.2	281.5	179.5	171.9	147.4	130.3	120.9	120.9	117.1	111.5	109.6
82.5°	224.8	183.2	132.2	115.2	96.3	86.9	83.1	81.2	79.3	71.8	69.9
85°	141.7	124.7	86.9	68.0	56.7	43.4	41.6	39.7	35.9	32.1	32.1
87.5°	64.2	71.8	34.0	20.8	15.1	9.4	5.7	1.9	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)