

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: P480784

Luminaire Tested: **IFLD-S-SA6A-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480784  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

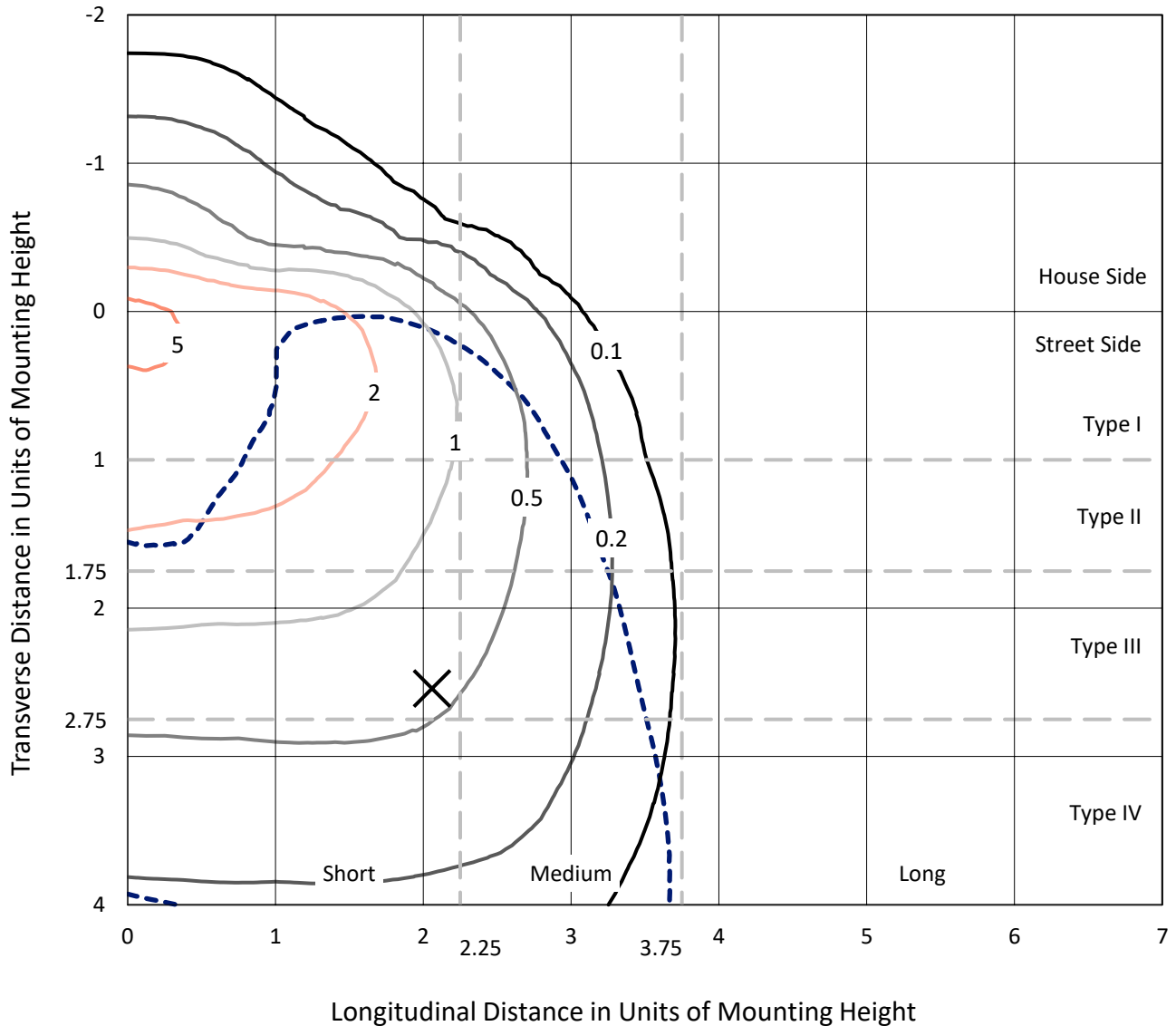
Lumens per Lamp: N/A  
Luminaire Lumens: 21833.1 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6  
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

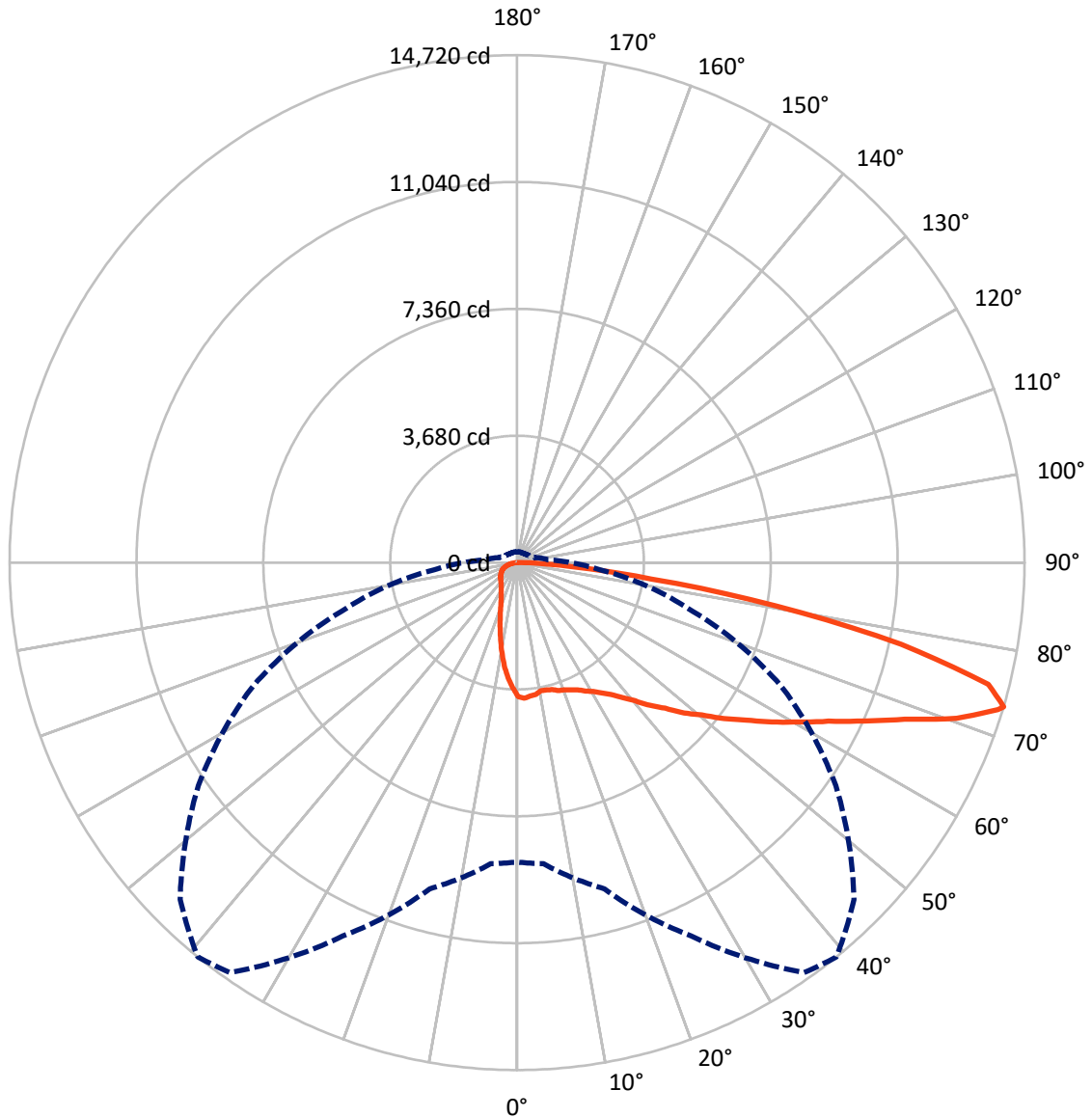
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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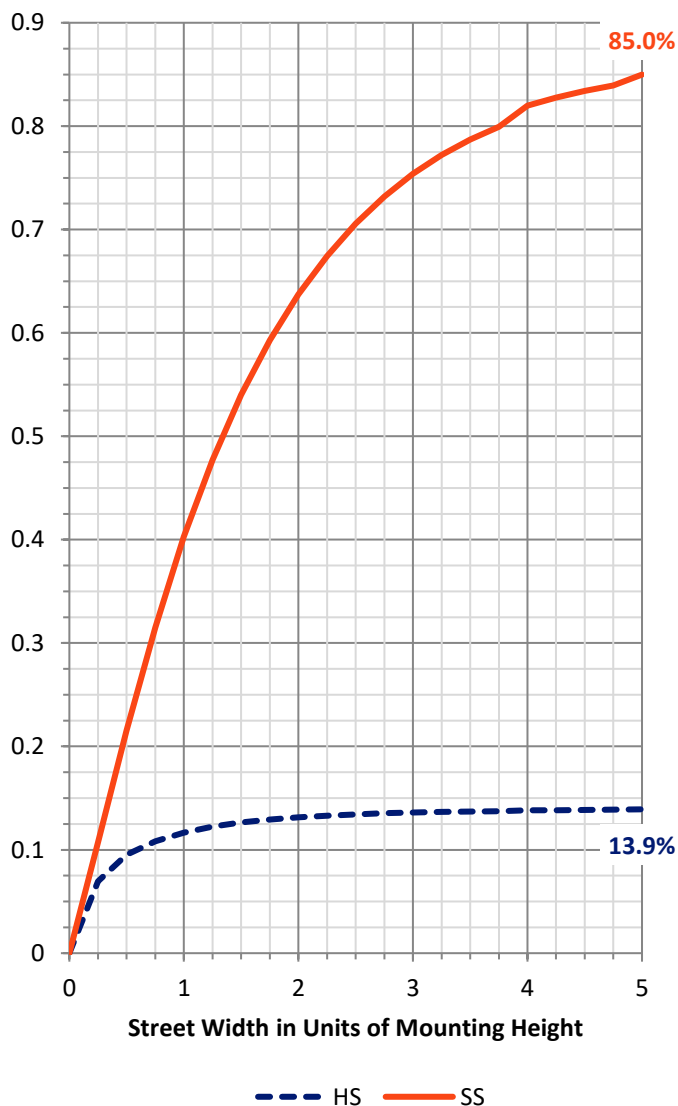
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3069.1	0.0	3069.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	18764.0	0.0	18764.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	21833.1	0.0	21833.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.4	1.5
10°-20°	857.6	3.9
20°-30°	1310.6	6.0
30°-40°	1910.9	8.8
40°-50°	2887.5	13.2
50°-60°	4181.3	19.2
60°-70°	5312.5	24.3
70°-80°	4306.6	19.7
80°-90°	728.7	3.3
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°	21833.1	100.0
0°-180°	21833.1	100.0

**Coefficient of Utilization**



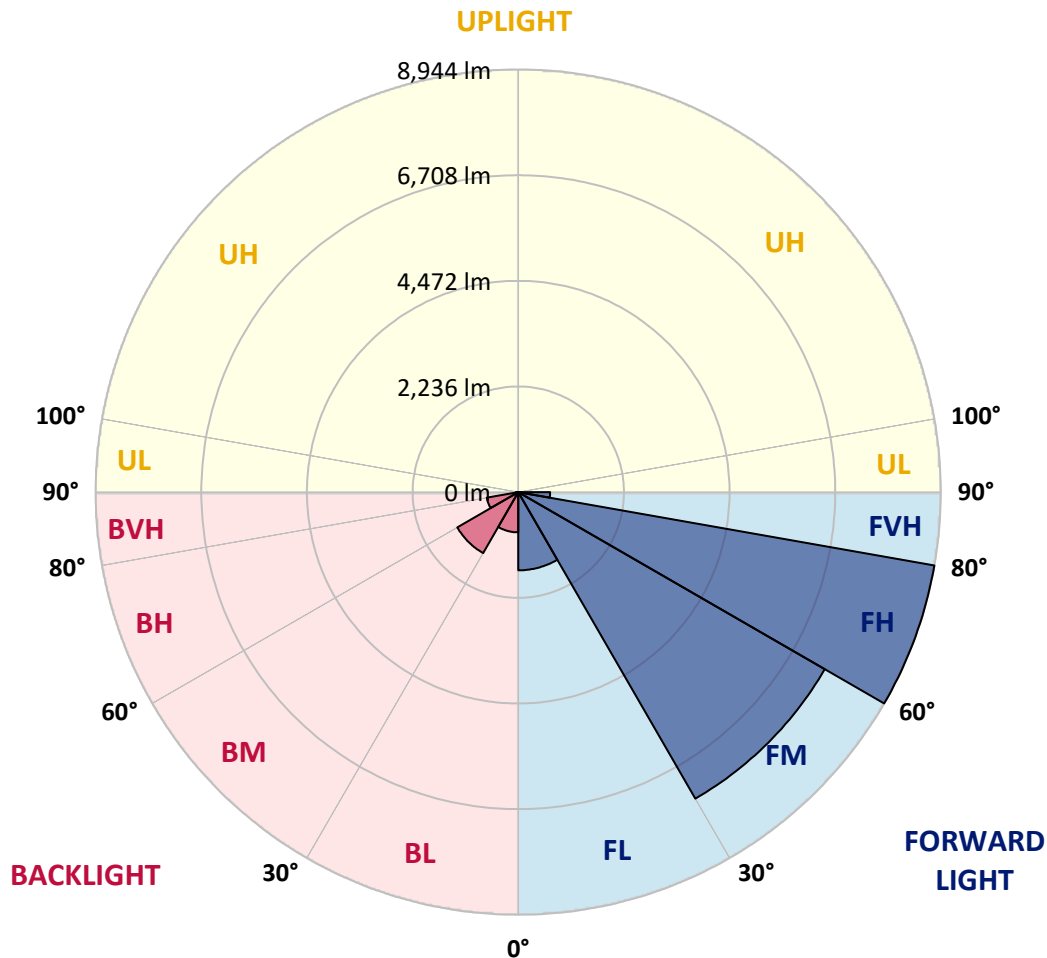
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.5	7.6			
FM (30°-60°)	7490.2	34.3			
FH (60°-80°)	8944.2	41.0			G4/12000
FVH (80°-90°)	675.2	3.1			G4/750
BL (0°-30°)	851.1	3.9	B2/1000		
BM (30°-60°)	1489.5	6.8	B2/2500		
BH (60°-80°)	675.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	53.5	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4
2.5°	3979.3	3937.7	3945.1	3930.4	3945.1	3940.2	3932.8	3896.2	3932.8	3896.2	3886.4
5°	3925.5	3925.5	3949.9	3913.3	3918.2	3893.8	3918.2	3891.3	3866.9	3805.8	3788.7
7.5°	3908.4	3906.0	3908.4	3857.1	3881.5	3866.9	3842.5	3813.1	3764.3	3725.2	3669.0
10°	3791.2	3815.6	3788.7	3803.4	3822.9	3779.0	3776.5	3769.2	3747.2	3695.9	3661.7
12.5°	3727.7	3769.2	3783.8	3771.6	3788.7	3793.6	3779.0	3769.2	3742.3	3708.1	3610.4
15°	3754.5	3705.7	3747.2	3827.8	3810.7	3822.9	3825.4	3815.6	3803.4	3739.9	3676.4
17.5°	3761.9	3732.5	3820.5	3837.6	3859.6	3903.5	3874.2	3871.8	3825.4	3781.4	3688.6
20°	3779.0	3766.7	3837.6	3928.0	3930.4	3937.7	3952.4	3915.7	3891.3	3815.6	3673.9
22.5°	3842.5	3884.0	3949.9	3989.0	4011.0	4015.9	4015.9	3942.6	3915.7	3854.7	3742.3
25°	4033.0	3989.0	4081.9	4128.3	4096.5	4089.2	4072.1	4006.1	3976.8	3923.1	3774.1
27.5°	4172.2	4169.8	4223.5	4287.0	4201.5	4218.6	4157.6	4138.0	4072.1	4042.8	3830.2
30°	4362.8	4416.5	4414.1	4433.6	4321.2	4340.8	4262.6	4226.0	4189.3	4206.4	3996.4
32.5°	4607.0	4587.5	4619.3	4604.6	4492.2	4509.3	4416.5	4360.3	4372.5	4423.8	4223.5
35°	4763.4	4743.8	4756.1	4756.1	4721.9	4702.3	4663.2	4589.9	4648.6	4743.8	4477.6
37.5°	4931.9	4956.4	5027.2	5012.5	4968.6	4968.6	4963.7	4912.4	4988.1	5222.6	4883.1
40°	5080.9	5146.9	5190.9	5220.2	5271.5	5271.5	5313.0	5283.7	5420.5	5796.7	5379.0
42.5°	5237.3	5239.7	5479.1	5501.1	5615.9	5664.8	5696.5	5720.9	5977.4	6397.6	5909.0
45°	5437.6	5449.8	5659.9	5828.4	6006.7	6023.8	6143.5	6224.2	6539.3	7054.7	6485.5
47.5°	5701.4	5686.7	5911.5	6180.2	6402.5	6519.7	6663.9	6751.8	7140.2	7768.0	7115.8
50°	6048.3	6004.3	6133.8	6556.4	6817.7	6947.2	7203.7	7350.3	7804.6	8449.5	7548.1
52.5°	6470.9	6397.6	6500.2	6961.9	7255.0	7516.4	7760.6	7924.3	8398.2	8977.1	7868.1
55°	6917.9	6766.4	6795.8	7391.8	7814.4	8061.1	8395.8	8566.8	9050.4	9451.0	8188.1
57.5°	7360.0	7264.8	7206.1	7804.6	8481.3	8718.2	9026.0	9248.3	9658.7	9871.2	8459.3
60°	7731.3	7706.9	7611.6	8444.6	9187.2	9390.0	9712.4	9849.2	10159.4	10259.6	8464.2
62.5°	8036.7	7953.6	8105.1	8960.0	9905.4	10135.0	10489.2	10501.4	10721.3	10501.4	8215.0
65°	8276.1	8281.0	8522.8	9582.9	10735.9	11075.5	11361.3	11329.5	11187.8	10357.3	7626.3
67.5°	8493.5	8586.3	8940.5	10266.9	11803.4	12123.4	12441.0	12020.8	11314.9	9683.1	6475.8
70°	8664.5	8757.3	9504.8	11099.9	13061.4	13530.5	13601.3	12294.4	10731.0	8202.8	4885.5
72.5°	8644.9	8813.5	9824.8	11764.3	14177.8	14583.3	14011.7	11524.9	8940.5	5718.5	2850.7
73°	8686.5	8769.5	9797.9	11950.0	14517.3	14720.1	13821.1	11283.1	8432.4	5129.8	2411.0
75°	7885.2	8166.1	9311.8	11647.1	14153.4	14116.7	12726.8	9402.2	5994.5	2694.4	1167.6
77.5°	5833.3	6011.6	7338.1	9578.1	11617.8	11383.3	9600.0	6009.2	2845.8	999.1	630.2
80°	2850.7	2989.9	3888.9	5530.4	7597.0	7616.5	5957.9	3126.7	1218.9	564.3	429.9
82.5°	1424.1	1507.2	1868.7	2430.5	3737.4	3915.7	3021.7	1778.3	754.8	320.0	244.3
85°	930.7	989.3	1150.5	1189.6	1585.4	1673.3	1407.0	1387.5	491.0	173.4	197.9
87.5°	618.0	627.8	706.0	600.9	635.1	610.7	679.1	874.5	144.1	73.3	53.7
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°	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4	3886.4
2.5°	3874.2	3840.0	3803.4	3752.1	3715.4	3659.3	3608.0	3586.0	3581.1	3583.5	3559.1
5°	3774.1	3725.2	3651.9	3546.9	3485.8	3393.0	3314.8	3273.3	3229.3	3236.7	3217.1
7.5°	3634.8	3581.1	3468.7	3346.6	3195.1	3063.2	2989.9	2887.3	2828.7	2784.7	2809.2
10°	3590.9	3498.0	3329.5	3160.9	2926.4	2753.0	2584.4	2467.2	2386.6	2308.4	2342.6
12.5°	3568.9	3476.0	3241.5	2992.4	2689.5	2425.7	2188.7	2044.6	1929.8	1861.4	1888.3
15°	3549.3	3434.5	3158.5	2806.7	2467.2	2120.3	1854.1	1663.5	1553.6	1487.6	1495.0
17.5°	3576.2	3412.5	3036.4	2626.0	2222.9	1851.6	1556.0	1358.2	1245.8	1204.3	1194.5
20°	3549.3	3388.1	2916.7	2445.2	1978.6	1595.1	1311.8	1148.1	1069.9	1035.7	1028.4
22.5°	3559.1	3329.5	2792.1	2244.9	1751.5	1380.2	1148.1	1023.5	962.4	945.3	950.2
25°	3605.5	3295.3	2667.5	2025.0	1526.7	1221.4	1043.1	947.8	903.8	886.7	891.6
27.5°	3639.7	3324.6	2555.1	1817.4	1336.2	1079.7	955.1	891.6	862.3	850.1	847.6
30°	3725.2	3341.7	2445.2	1631.8	1179.9	986.9	894.1	842.8	823.2	815.9	813.4
32.5°	3852.2	3373.5	2318.2	1460.8	1065.0	898.9	845.2	801.2	796.3	789.0	791.5
35°	4059.9	3483.4	2176.5	1314.2	955.1	840.3	793.9	764.6	764.6	764.6	771.9
37.5°	4357.9	3637.3	2049.5	1175.0	884.3	789.0	749.9	740.2	735.3	742.6	747.5
40°	4741.4	3822.9	1946.9	1065.0	823.2	754.8	720.6	715.7	713.3	710.8	715.7
42.5°	5161.6	4059.9	1858.9	979.5	779.2	718.2	693.7	688.9	679.1	684.0	691.3
45°	5579.3	4353.0	1780.8	911.1	749.9	698.6	664.4	662.0	657.1	654.7	666.9
47.5°	6043.4	4641.2	1756.3	869.6	727.9	669.3	644.9	642.4	627.8	625.3	635.1
50°	6404.9	4853.8	1783.2	850.1	696.2	647.3	630.2	618.0	605.8	593.6	593.6
52.5°	6654.1	5000.3	1802.8	835.4	679.1	618.0	596.0	591.1	578.9	566.7	561.8
55°	6878.8	5088.3	1807.6	837.9	662.0	583.8	569.2	566.7	559.4	539.9	535.0
57.5°	6954.5	5051.6	1709.9	815.9	652.2	561.8	542.3	547.2	537.4	520.3	517.9
60°	6947.2	4797.6	1487.6	786.6	630.2	537.4	513.0	527.6	527.6	508.1	505.7
62.5°	6524.6	4211.3	1216.5	730.4	605.8	513.0	486.1	508.1	515.4	503.2	500.8
65°	5647.7	3429.6	1016.2	674.2	569.2	486.1	459.2	483.7	495.9	491.0	488.6
67.5°	4673.0	2623.5	845.2	600.9	522.8	449.5	427.5	444.6	451.9	454.4	456.8
70°	3302.6	1746.6	706.0	520.3	459.2	410.4	386.0	388.4	386.0	393.3	393.3
72.5°	1795.4	1006.4	574.0	442.1	395.7	356.6	339.5	327.3	327.3	324.9	324.9
73°	1536.5	903.8	547.2	429.9	378.6	346.9	327.3	317.6	317.6	315.1	312.7
75°	862.3	662.0	469.0	368.9	327.3	302.9	288.2	273.6	271.1	271.1	271.1
77.5°	566.7	515.4	373.7	295.6	263.8	241.8	236.9	222.3	222.3	222.3	219.8
80°	425.0	405.5	288.2	224.7	202.7	185.6	180.8	171.0	168.6	158.8	161.2
82.5°	283.4	320.0	210.1	158.8	136.8	127.0	127.0	124.6	117.3	105.0	105.0
85°	224.7	261.4	151.5	97.7	80.6	68.4	70.8	68.4	66.0	53.7	51.3
87.5°	41.5	105.0	44.0	26.9	19.5	12.2	12.2	7.3	4.9	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)