

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: P480088

Luminaire Tested: **IFLD-M-SA4B-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480088  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

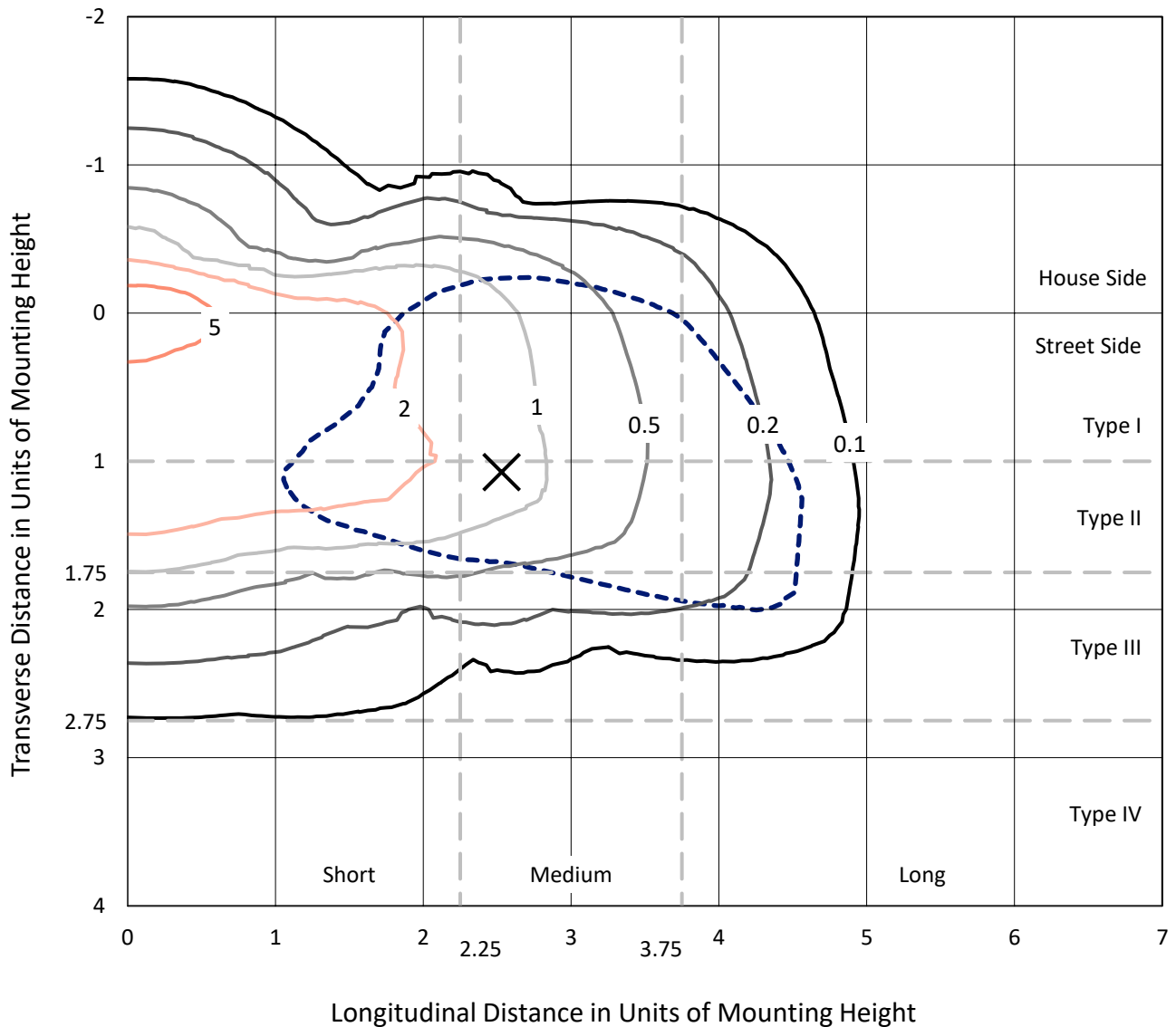
Lumens per Lamp: N/A  
Luminaire Lumens: 22460.3 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

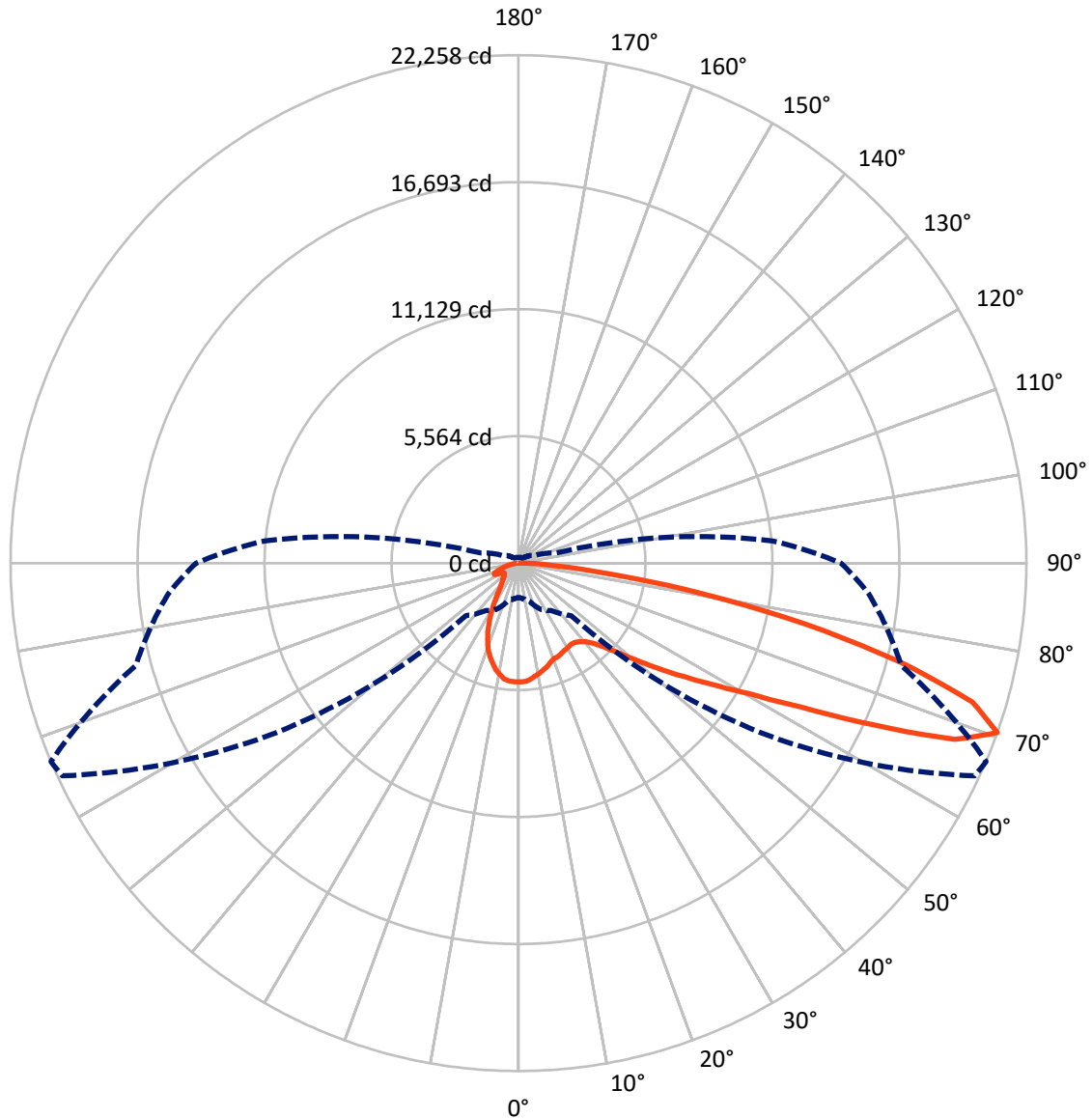
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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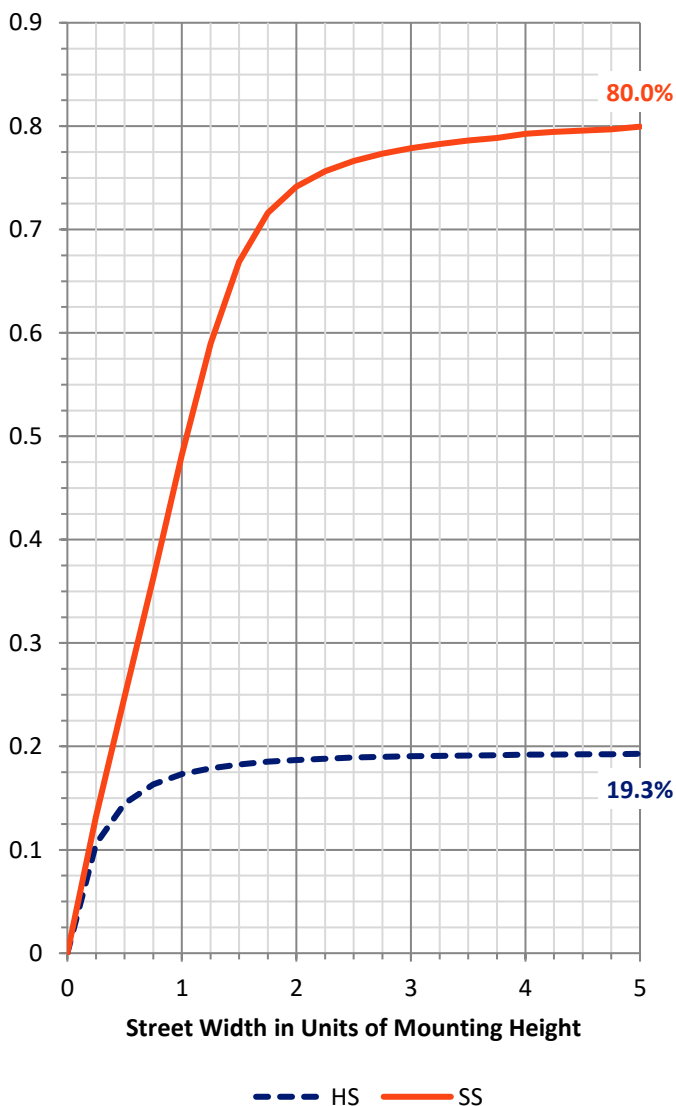
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4374.4	0.0	4374.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18085.9	0.0	18085.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22460.3	0.0	22460.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.7	2.0
10°-20°	1086.5	4.8
20°-30°	1467.3	6.5
30°-40°	1963.3	8.7
40°-50°	2887.0	12.9
50°-60°	4500.1	20.0
60°-70°	5543.4	24.7
70°-80°	3916.9	17.4
80°-90°	642.0	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°	22460.3	100.0
0°-180°	22460.3	100.0

**Coefficient of Utilization**



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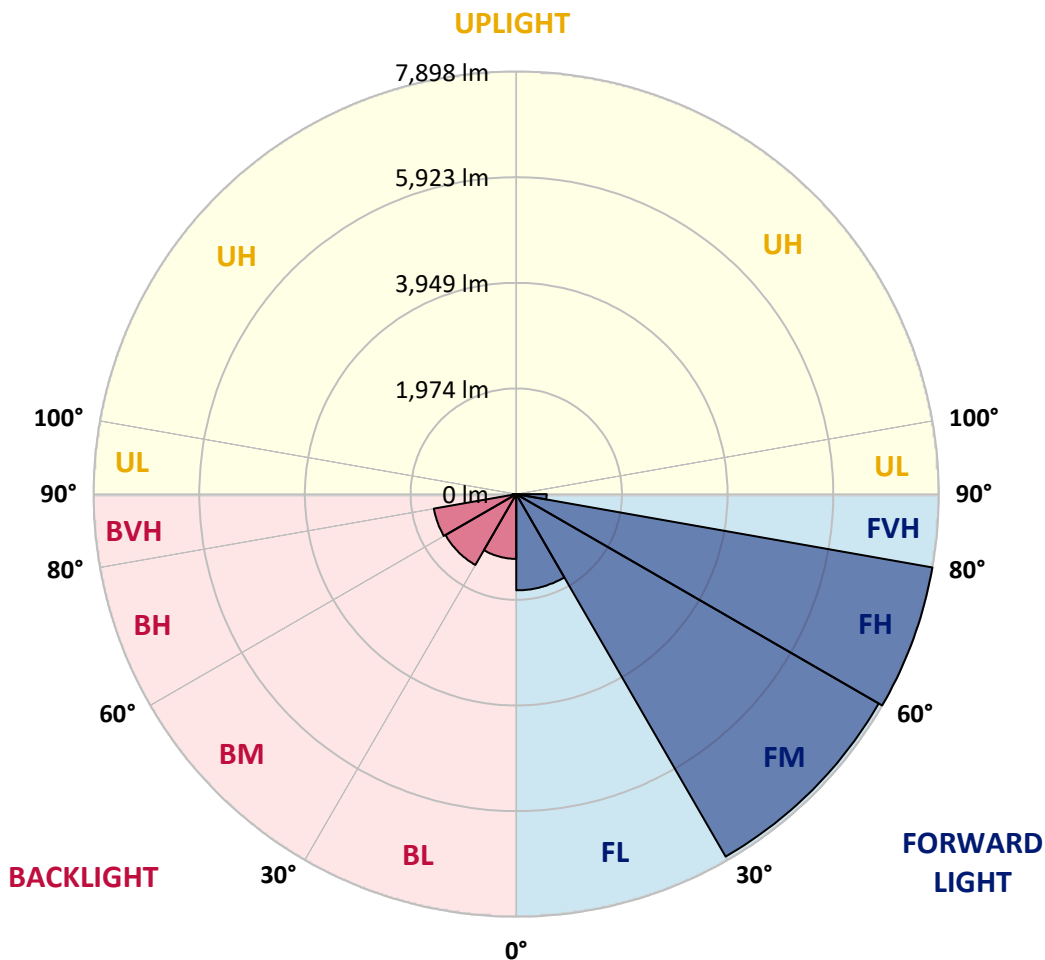
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.8	8.0			
FM (30°-60°)	7822.4	34.8			
FH (60°-80°)	7897.8	35.2			G4/12000
FVH (80°-90°)	567.9	2.5			G4/750
BL (0°-30°)	1209.7	5.4	B3/2500		
BM (30°-60°)	1528.1	6.8	B2/2500		
BH (60°-80°)	1562.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.1	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°	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5
2.5°	4841.4	4896.1	4916.0	4945.8	5022.9	5080.1	5114.9	5154.7	5202.0	5241.8	5266.6
5°	4503.2	4533.1	4580.3	4612.6	4709.6	4863.8	4968.2	5137.3	5132.3	5194.5	5289.0
7.5°	4175.0	4204.8	4227.2	4291.9	4431.1	4570.4	4761.8	5035.4	5015.5	5159.7	5306.4
10°	3971.1	3948.7	3956.2	4065.6	4175.0	4331.7	4572.9	4851.4	4923.5	5147.3	5356.1
12.5°	3779.6	3754.8	3814.4	3884.1	4018.3	4160.1	4448.5	4699.7	4809.1	5102.5	5378.5
15°	3660.3	3642.9	3717.5	3747.3	3906.4	4075.5	4279.4	4585.3	4704.6	5047.8	5343.7
17.5°	3593.1	3608.1	3635.4	3700.1	3802.0	3946.2	4170.0	4508.2	4560.4	4980.7	5336.2
20°	3605.6	3623.0	3625.5	3652.8	3722.4	3834.3	4063.1	4426.1	4461.0	4968.2	5356.1
22.5°	3705.0	3680.2	3690.1	3672.7	3692.6	3779.6	3981.0	4316.7	4451.0	4863.8	5313.9
25°	3854.2	3819.4	3814.4	3754.8	3717.5	3742.3	3966.1	4289.4	4376.4	4831.5	5311.4
27.5°	4117.8	4065.6	4065.6	3976.1	3824.4	3784.6	3923.9	4244.6	4321.7	4801.6	5254.2
30°	4371.4	4371.4	4373.9	4247.1	4078.0	3881.6	3941.3	4227.2	4277.0	4712.1	5177.1
32.5°	4679.8	4672.3	4659.9	4597.7	4336.6	4043.2	4025.8	4204.8	4229.7	4682.3	5154.7
35°	4980.7	4960.8	5057.7	5003.0	4737.0	4359.0	4112.8	4214.8	4269.5	4637.5	5085.1
37.5°	5206.9	5219.4	5420.8	5455.6	5226.8	4717.1	4359.0	4314.3	4366.5	4702.2	5085.1
40°	5500.4	5550.1	5739.1	5855.9	5716.7	5189.5	4749.4	4480.9	4518.2	4846.4	5194.5
42.5°	5885.8	5928.1	6169.3	6320.9	6281.2	5791.3	5134.8	4829.0	4799.1	5087.6	5358.6
45°	6395.5	6403.0	6646.7	6855.6	6937.6	6420.4	5746.5	5269.1	5244.2	5502.8	5659.5
47.5°	7002.3	6994.8	7146.5	7370.3	7591.6	7171.4	6450.2	5938.0	5848.5	6097.1	6159.3
50°	7589.1	7556.8	7591.6	7877.5	8302.8	8111.3	7305.6	6756.1	6666.6	6803.3	6910.3
52.5°	7912.4	7952.1	7857.7	8235.6	9058.7	9222.8	8439.5	7733.3	7656.2	7723.4	7909.9
55°	7686.1	7768.1	7706.0	8064.0	9389.4	10578.0	9906.6	8864.7	8765.3	8740.4	9046.3
57.5°	6723.8	6873.0	6885.4	7452.3	9275.0	11627.3	11970.5	10200.0	10050.8	9797.2	10113.0
60°	5162.2	5311.4	5425.8	6097.1	8295.3	12254.0	14362.6	12099.8	11607.4	10951.0	11140.0
62.5°	3618.0	3720.0	3834.3	4247.1	6395.5	11885.9	16431.5	14775.4	13867.8	12166.9	12403.2
65°	2635.8	2715.4	2832.2	3075.9	3928.8	9834.5	17391.3	17953.3	17092.9	13713.6	13683.8
67.5°	1984.3	2034.0	2188.2	2578.6	2722.8	6074.8	16396.6	21310.2	20613.9	15431.8	14713.2
70°	1501.9	1544.2	1688.4	2223.0	2543.8	3257.4	12935.3	22058.6	22257.6	17359.0	15404.5
72.5°	1034.4	1081.7	1243.3	1852.5	2421.9	2583.6	8118.7	20039.5	20792.9	18152.2	14663.5
75°	634.1	666.4	760.9	1404.9	2404.5	2526.4	4468.4	16421.5	17219.7	16772.1	12828.4
77.5°	447.6	445.1	462.5	823.1	2083.8	2541.3	2755.2	12032.7	12808.5	12360.9	8705.6
80°	325.7	328.2	345.6	492.3	1414.9	2583.6	2170.8	8059.1	8290.3	6445.3	3434.0
82.5°	196.4	206.4	248.7	333.2	850.4	2332.4	2006.7	4478.4	4189.9	2068.9	944.9
85°	104.4	104.4	146.7	211.4	452.6	1740.6	1932.1	2131.0	1785.4	641.5	350.6
87.5°	24.9	24.9	42.3	84.5	181.5	833.0	1317.9	847.9	678.8	216.3	144.2
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°	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5	5199.5
2.5°	5256.7	5226.8	5264.1	5189.5	5129.9	5132.3	5040.3	5035.4	5022.9	4958.3	4980.7
5°	5316.4	5291.5	5249.2	5167.2	5035.4	4903.6	4824.0	4722.1	4679.8	4657.4	4667.3
7.5°	5373.5	5328.8	5206.9	5092.6	4888.7	4640.0	4495.8	4359.0	4184.9	4165.1	4130.2
10°	5388.5	5294.0	5137.3	4893.6	4622.6	4346.6	4018.3	3764.7	3630.4	3526.0	3486.2
12.5°	5366.1	5326.3	5025.4	4712.1	4301.8	3869.1	3486.2	3128.1	2879.5	2750.2	2715.4
15°	5363.6	5294.0	4901.1	4436.1	3911.4	3347.0	2802.4	2372.2	2111.1	2004.2	2004.2
17.5°	5366.1	5199.5	4754.4	4157.6	3451.4	2688.0	2088.7	1735.6	1591.4	1576.5	1588.9
20°	5316.4	5129.9	4600.2	3829.4	2874.5	2019.1	1516.8	1372.6	1372.6	1392.5	1400.0
22.5°	5271.6	5025.4	4356.5	3424.0	2287.7	1462.1	1233.4	1191.1	1238.3	1273.1	1288.1
25°	5209.4	4938.4	4107.9	3003.8	1740.6	1178.6	1071.7	1081.7	1126.4	1188.6	1183.6
27.5°	5119.9	4786.7	3812.0	2516.4	1295.5	1017.0	989.7	994.6	1041.9	1069.2	1064.3
30°	5018.0	4632.5	3538.4	2031.6	1027.0	932.5	930.0	942.4	949.9	964.8	962.3
32.5°	4888.7	4428.6	3247.5	1579.0	925.0	885.2	875.3	867.8	875.3	872.8	865.3
35°	4796.7	4319.2	2951.6	1203.5	867.8	843.0	835.5	823.1	813.1	798.2	795.7
37.5°	4771.8	4209.8	2640.8	982.2	823.1	810.6	785.8	763.4	751.0	743.5	738.5
40°	4756.9	4137.7	2337.4	862.9	785.8	773.3	743.5	713.7	701.2	693.8	696.2
42.5°	4809.1	4097.9	2029.1	803.2	753.4	731.1	698.7	663.9	661.4	656.5	663.9
45°	4993.1	4147.6	1743.1	760.9	721.1	683.8	641.5	624.1	621.7	616.7	621.7
47.5°	5410.8	4272.0	1499.4	733.5	686.3	654.0	609.2	584.4	581.9	579.4	579.4
50°	5987.7	4654.9	1295.5	701.2	663.9	619.2	576.9	549.5	544.6	534.6	534.6
52.5°	6892.9	5298.9	1173.7	683.8	624.1	586.8	542.1	512.2	499.8	489.9	489.9
55°	7912.4	6097.1	1151.3	654.0	581.9	547.1	507.3	477.4	465.0	452.6	447.6
57.5°	9073.6	7153.9	1310.4	634.1	552.0	507.3	462.5	435.2	425.2	412.8	407.8
60°	10155.3	8208.3	1805.3	604.2	524.7	470.0	425.2	397.9	385.4	373.0	373.0
62.5°	11406.0	9513.7	2643.3	604.2	499.8	430.2	385.4	365.5	358.1	345.6	343.2
65°	12885.6	10864.0	3255.0	641.5	492.3	395.4	348.1	328.2	320.8	313.3	310.8
67.5°	14012.0	11639.8	2799.9	741.0	524.7	365.5	310.8	298.4	293.4	286.0	281.0
70°	14131.3	11167.3	1688.4	800.7	557.0	335.7	278.5	266.1	266.1	258.6	253.6
72.5°	13059.6	9909.1	1136.4	713.7	504.8	300.9	246.2	236.2	231.3	226.3	223.8
75°	10928.6	8404.7	897.7	569.4	387.9	248.7	213.8	203.9	196.4	194.0	189.0
77.5°	7340.4	5463.1	663.9	445.1	286.0	201.4	179.0	169.1	161.6	159.1	151.7
80°	2819.8	2081.3	427.7	323.3	201.4	159.1	141.7	131.8	126.8	119.4	114.4
82.5°	830.5	673.9	238.7	198.9	129.3	109.4	102.0	94.5	87.0	79.6	77.1
85°	343.2	308.3	146.7	104.4	79.6	64.7	59.7	52.2	44.8	39.8	34.8
87.5°	159.1	131.8	67.1	39.8	27.4	14.9	7.5	2.5	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)