

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: P480793

Luminaire Tested: **IFLD-M-SA4E-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480793  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

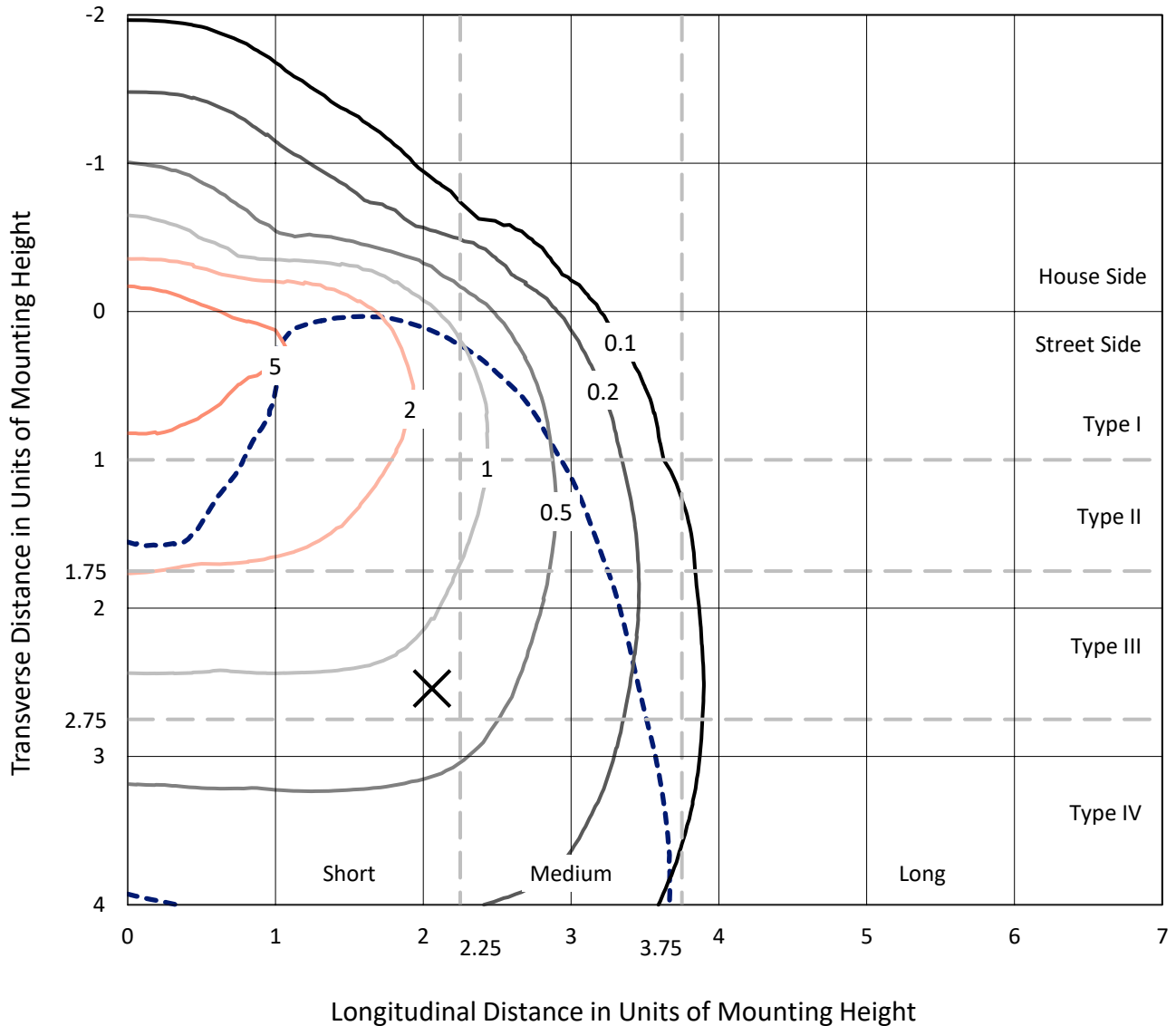
Lumens per Lamp: N/A  
Luminaire Lumens: 29287.2 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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

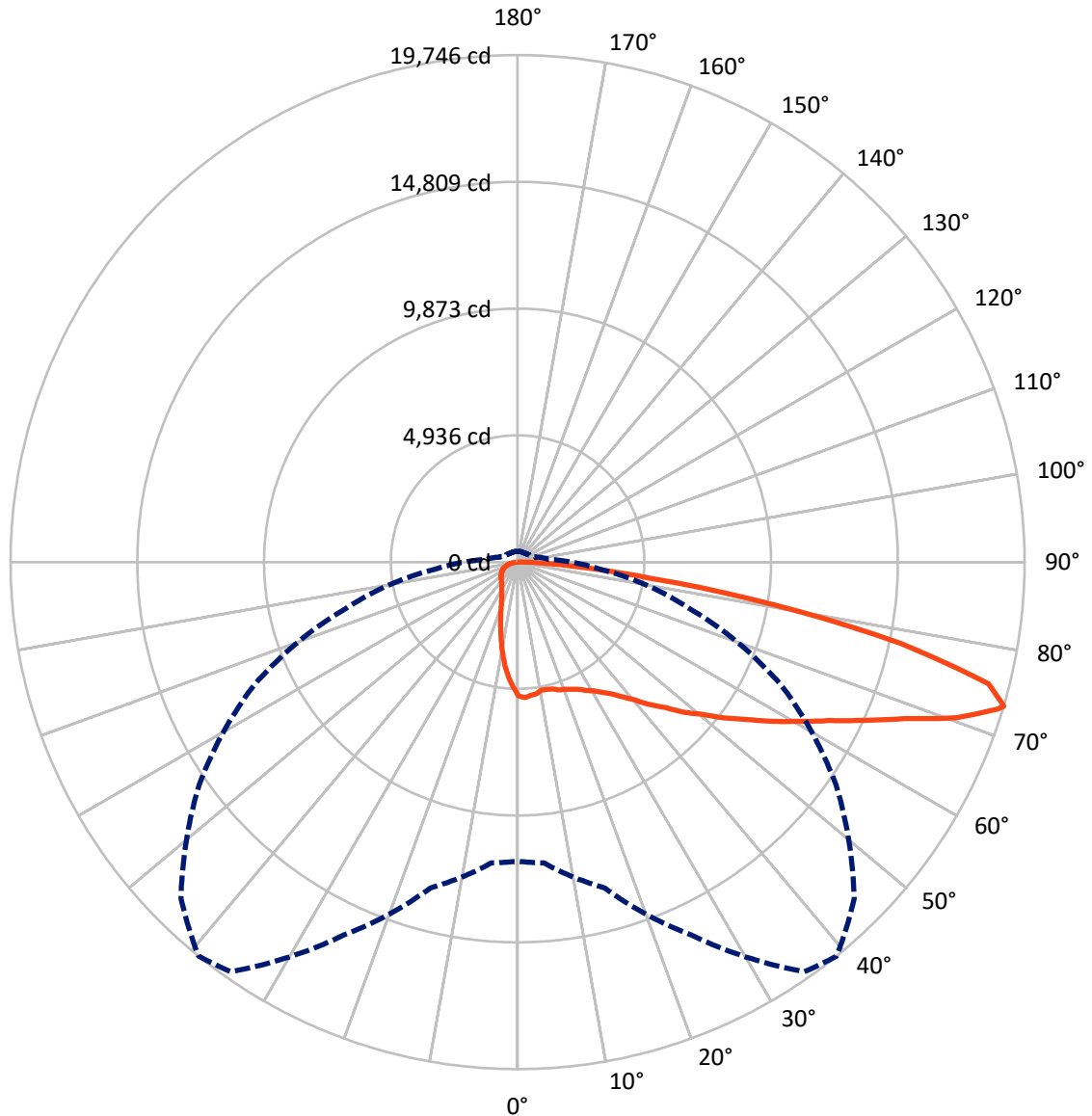
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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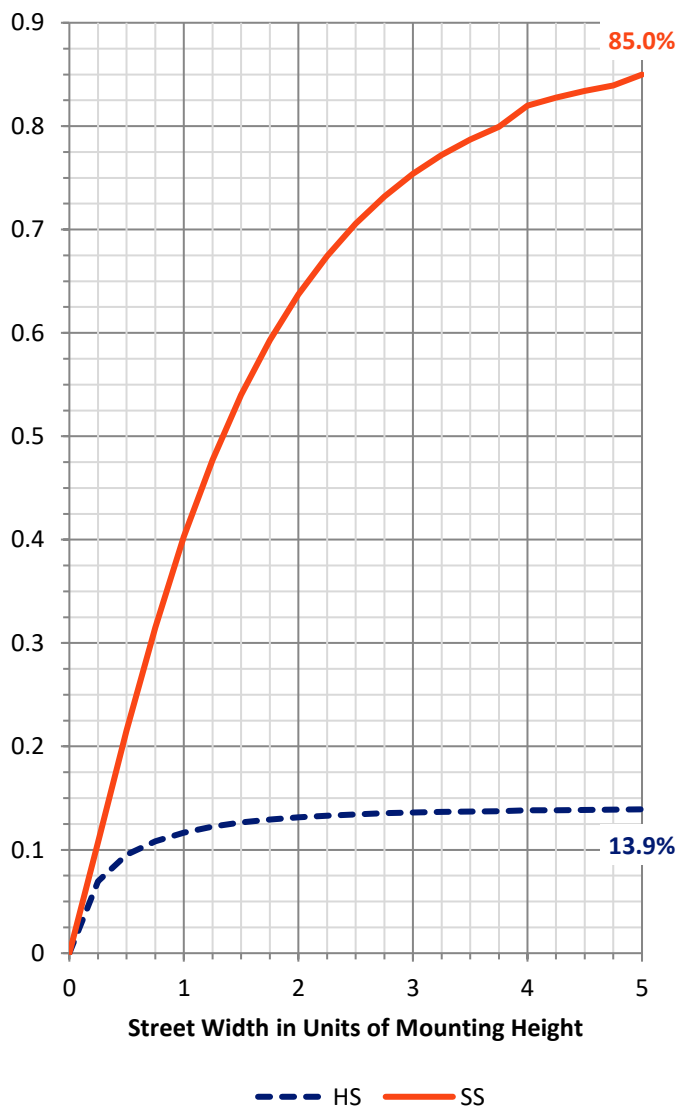
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4117.0	0.0	4117.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	25170.2	0.0	25170.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	29287.2	0.0	29287.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.6	1.5
10°-20°	1150.5	3.9
20°-30°	1758.0	6.0
30°-40°	2563.3	8.8
40°-50°	3873.4	13.2
50°-60°	5608.8	19.2
60°-70°	7126.3	24.3
70°-80°	5777.0	19.7
80°-90°	977.4	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°	29287.2	100.0
0°-180°	29287.2	100.0

**Coefficient of Utilization**



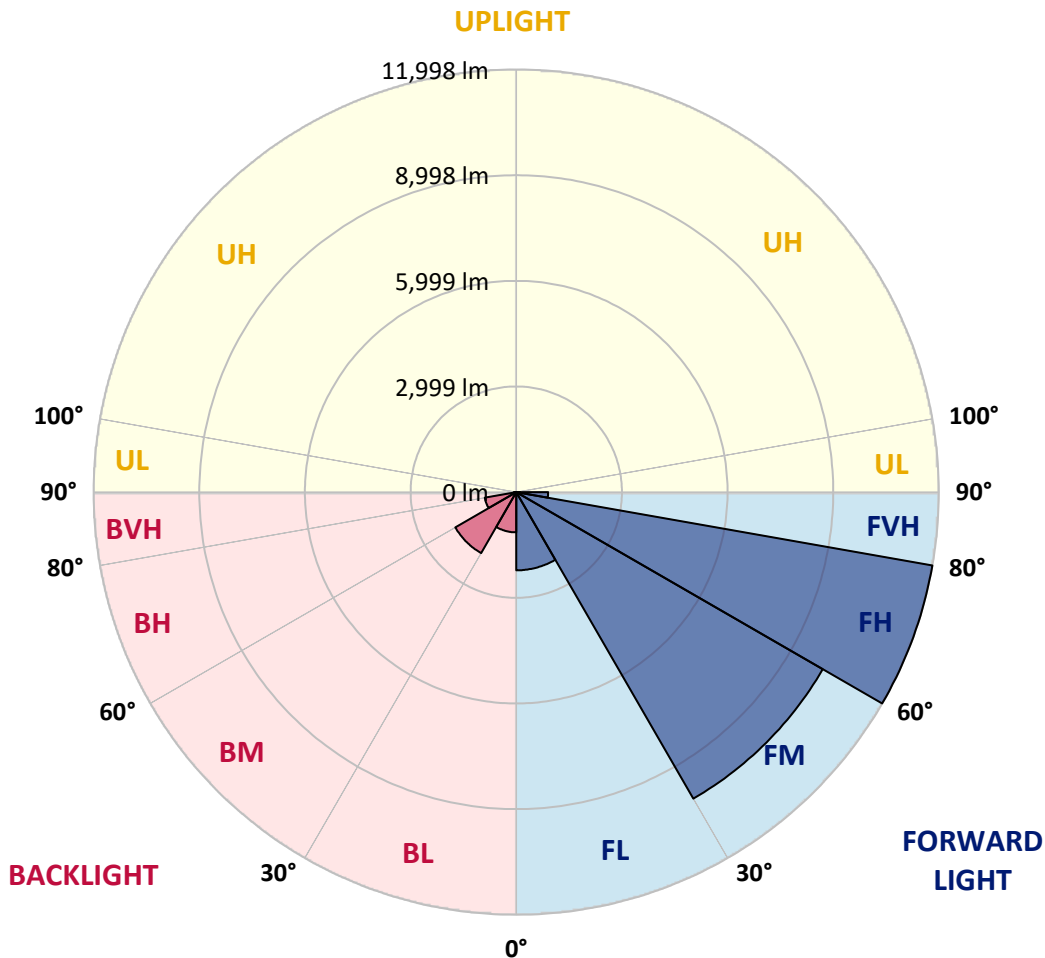
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.3	7.6			
FM (30°-60°)	10047.4	34.3			
FH (60°-80°)	11997.8	41.0			G4/12000
FVH (80°-90°)	905.7	3.1			G5
BL (0°-30°)	1141.7	3.9	B3/2500		
BM (30°-60°)	1998.1	6.8	B2/2500		
BH (60°-80°)	905.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	71.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3
2.5°	5337.8	5282.1	5291.9	5272.3	5291.9	5285.4	5275.6	5226.4	5275.6	5226.4	5213.3
5°	5265.7	5265.7	5298.5	5249.3	5255.9	5223.1	5255.9	5219.9	5187.1	5105.2	5082.2
7.5°	5242.8	5239.5	5242.8	5174.0	5206.7	5187.1	5154.3	5115.0	5049.5	4997.0	4921.7
10°	5085.5	5118.3	5082.2	5101.9	5128.1	5069.1	5065.8	5056.0	5026.5	4957.7	4911.8
12.5°	5000.3	5056.0	5075.7	5059.3	5082.2	5088.8	5069.1	5056.0	5020.0	4974.1	4843.0
15°	5036.4	4970.8	5026.5	5134.7	5111.7	5128.1	5131.4	5118.3	5101.9	5016.7	4931.5
17.5°	5046.2	5006.9	5124.8	5147.8	5177.3	5236.2	5196.9	5193.6	5131.4	5072.4	4947.9
20°	5069.1	5052.7	5147.8	5269.0	5272.3	5282.1	5301.8	5252.6	5219.9	5118.3	4928.2
22.5°	5154.3	5210.0	5298.5	5350.9	5380.4	5387.0	5387.0	5288.7	5252.6	5170.7	5020.0
25°	5409.9	5350.9	5475.4	5537.7	5495.1	5485.3	5462.3	5373.9	5334.5	5262.5	5062.6
27.5°	5596.7	5593.4	5665.5	5750.7	5636.0	5658.9	5577.0	5550.8	5462.3	5423.0	5137.9
30°	5852.3	5924.4	5921.1	5947.3	5796.6	5822.8	5717.9	5668.8	5619.6	5642.6	5360.8
32.5°	6179.9	6153.7	6196.3	6176.7	6025.9	6048.9	5924.4	5849.0	5865.4	5934.2	5665.5
35°	6389.7	6363.4	6379.8	6379.8	6333.9	6307.7	6255.3	6157.0	6235.6	6363.4	6006.3
37.5°	6615.7	6648.5	6743.5	6723.9	6664.9	6664.9	6658.3	6589.5	6691.1	7005.7	6550.2
40°	6815.6	6904.1	6963.1	7002.4	7071.2	7071.2	7126.9	7087.6	7271.1	7775.7	7215.4
42.5°	7025.3	7028.6	7349.7	7379.2	7533.2	7598.8	7641.4	7674.1	8018.2	8581.8	7926.4
45°	7294.0	7310.4	7592.2	7818.3	8057.5	8080.5	8241.0	8349.1	8771.8	9463.2	8699.8
47.5°	7647.9	7628.3	7929.7	8290.2	8588.3	8745.6	8939.0	9056.9	9577.9	10420.0	9545.2
50°	8113.2	8054.2	8227.9	8794.8	9145.4	9319.1	9663.1	9859.7	10469.2	11334.3	10125.1
52.5°	8680.1	8581.8	8719.4	9338.7	9731.9	10082.5	10410.2	10629.8	11265.4	12042.0	10554.4
55°	9279.7	9076.6	9115.9	9915.4	10482.3	10813.3	11262.2	11491.5	12140.3	12677.7	10983.6
57.5°	9872.8	9745.0	9666.4	10469.2	11376.9	11694.7	12107.6	12405.8	12956.2	13241.3	11347.4
60°	10370.9	10338.1	10210.3	11327.7	12323.8	12595.8	13028.3	13211.8	13628.0	13762.3	11353.9
62.5°	10780.5	10669.1	10872.2	12019.1	13287.2	13595.2	14070.3	14086.7	14381.6	14086.7	11019.7
65°	11101.6	11108.2	11432.6	12854.7	14401.3	14856.8	15240.1	15197.5	15007.5	13893.4	10230.0
67.5°	11393.2	11517.8	11992.9	13772.2	15833.2	16262.5	16688.5	16124.9	15177.9	12989.0	8686.6
70°	11622.6	11747.1	12749.8	14889.5	17520.8	18149.9	18244.9	16491.9	14394.7	11003.3	6553.5
72.5°	11596.4	11822.5	13179.1	15780.8	19018.2	19562.2	18795.4	15459.7	11992.9	7670.9	3824.0
73°	11652.1	11763.5	13143.0	16029.8	19473.7	19745.7	18539.8	15135.3	11311.3	6881.2	3234.1
75°	10577.3	10954.2	12490.9	15623.5	18985.5	18936.3	17071.8	12612.2	8041.1	3614.2	1566.3
77.5°	7824.9	8064.1	9843.3	12848.1	15584.2	15269.6	12877.6	8060.8	3817.4	1340.2	845.4
80°	3824.0	4010.7	5216.6	7418.5	10190.7	10216.9	7992.0	4194.2	1635.1	756.9	576.7
82.5°	1910.3	2021.8	2506.7	3260.4	5013.4	5252.6	4053.3	2385.5	1012.5	429.3	327.7
85°	1248.4	1327.1	1543.3	1595.8	2126.6	2244.6	1887.4	1861.2	658.6	232.6	265.4
87.5°	829.0	842.1	947.0	806.1	852.0	819.2	910.9	1173.1	193.3	98.3	72.1
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°	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3
2.5°	5196.9	5151.0	5101.9	5033.1	4983.9	4908.6	4839.8	4810.3	4803.7	4807.0	4774.2
5°	5062.6	4997.0	4898.7	4757.8	4675.9	4551.4	4446.5	4390.8	4331.9	4341.7	4315.5
7.5°	4875.8	4803.7	4653.0	4489.1	4286.0	4109.0	4010.7	3873.1	3794.5	3735.5	3768.3
10°	4816.8	4692.3	4466.2	4240.1	3925.5	3692.9	3466.8	3309.5	3201.4	3096.5	3142.4
12.5°	4787.3	4662.8	4348.2	4014.0	3607.7	3253.8	2936.0	2742.6	2588.6	2496.9	2532.9
15°	4761.1	4607.1	4236.8	3765.0	3309.5	2844.2	2487.0	2231.5	2084.0	1995.5	2005.4
17.5°	4797.2	4577.6	4073.0	3522.5	2981.8	2483.8	2087.3	1821.9	1671.1	1615.4	1602.3
20°	4761.1	4544.8	3912.4	3280.0	2654.2	2139.7	1759.6	1540.1	1435.2	1389.3	1379.5
22.5°	4774.2	4466.2	3745.3	3011.3	2349.4	1851.4	1540.1	1373.0	1291.0	1268.1	1274.7
25°	4836.5	4420.3	3578.2	2716.4	2048.0	1638.4	1399.2	1271.4	1212.4	1189.5	1196.0
27.5°	4882.3	4459.6	3427.5	2437.9	1792.4	1448.3	1281.2	1196.0	1156.7	1140.3	1137.0
30°	4997.0	4482.6	3280.0	2188.9	1582.7	1323.8	1199.3	1130.5	1104.3	1094.4	1091.2
32.5°	5167.4	4525.2	3109.6	1959.5	1428.7	1205.8	1133.8	1074.8	1068.2	1058.4	1061.7
35°	5445.9	4672.6	2919.6	1762.9	1281.2	1127.2	1064.9	1025.6	1025.6	1025.6	1035.5
37.5°	5845.7	4879.1	2749.2	1576.1	1186.2	1058.4	1006.0	992.9	986.3	996.1	1002.7
40°	6360.2	5128.1	2611.6	1428.7	1104.3	1012.5	966.6	960.1	956.8	953.5	960.1
42.5°	6923.8	5445.9	2493.6	1314.0	1045.3	963.4	930.6	924.0	910.9	917.5	927.3
45°	7484.1	5839.2	2388.7	1222.2	1006.0	937.1	891.3	888.0	881.4	878.2	894.6
47.5°	8106.7	6225.8	2356.0	1166.5	976.5	897.8	865.1	861.8	842.1	838.8	852.0
50°	8591.6	6510.9	2392.0	1140.3	933.9	868.3	845.4	829.0	812.6	796.2	796.2
52.5°	8925.9	6707.5	2418.2	1120.6	910.9	829.0	799.5	793.0	776.6	760.2	753.7
55°	9227.3	6825.5	2424.8	1123.9	888.0	783.1	763.5	760.2	750.4	724.2	717.6
57.5°	9328.9	6776.3	2293.7	1094.4	874.9	753.7	727.4	734.0	720.9	697.9	694.7
60°	9319.1	6435.5	1995.5	1055.1	845.4	720.9	688.1	707.8	707.8	681.6	678.3
62.5°	8752.2	5649.1	1631.8	979.7	812.6	688.1	652.1	681.6	691.4	675.0	671.7
65°	7575.8	4600.5	1363.1	904.4	763.5	652.1	616.0	648.8	665.2	658.6	655.3
67.5°	6268.4	3519.2	1133.8	806.1	701.2	602.9	573.4	596.4	606.2	609.5	612.8
70°	4430.2	2342.9	947.0	697.9	616.0	550.5	517.7	521.0	517.7	527.6	527.6
72.5°	2408.4	1350.0	770.0	593.1	530.8	478.4	455.5	439.1	439.1	435.8	435.8
73°	2061.1	1212.4	734.0	576.7	507.9	465.3	439.1	426.0	426.0	422.7	419.4
75°	1156.7	888.0	629.1	494.8	439.1	406.3	386.7	367.0	363.7	363.7	363.7
77.5°	760.2	691.4	501.3	396.5	353.9	324.4	317.8	298.2	298.2	298.2	294.9
80°	570.2	543.9	386.7	301.5	272.0	249.0	242.5	229.4	226.1	213.0	216.3
82.5°	380.1	429.3	281.8	213.0	183.5	170.4	170.4	167.1	157.3	140.9	140.9
85°	301.5	350.6	203.2	131.1	108.1	91.7	95.0	91.7	88.5	72.1	68.8
87.5°	55.7	140.9	59.0	36.0	26.2	16.4	16.4	9.8	6.6	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)