

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: P480253

Luminaire Tested: **IFLD-L-SA8A-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480253  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

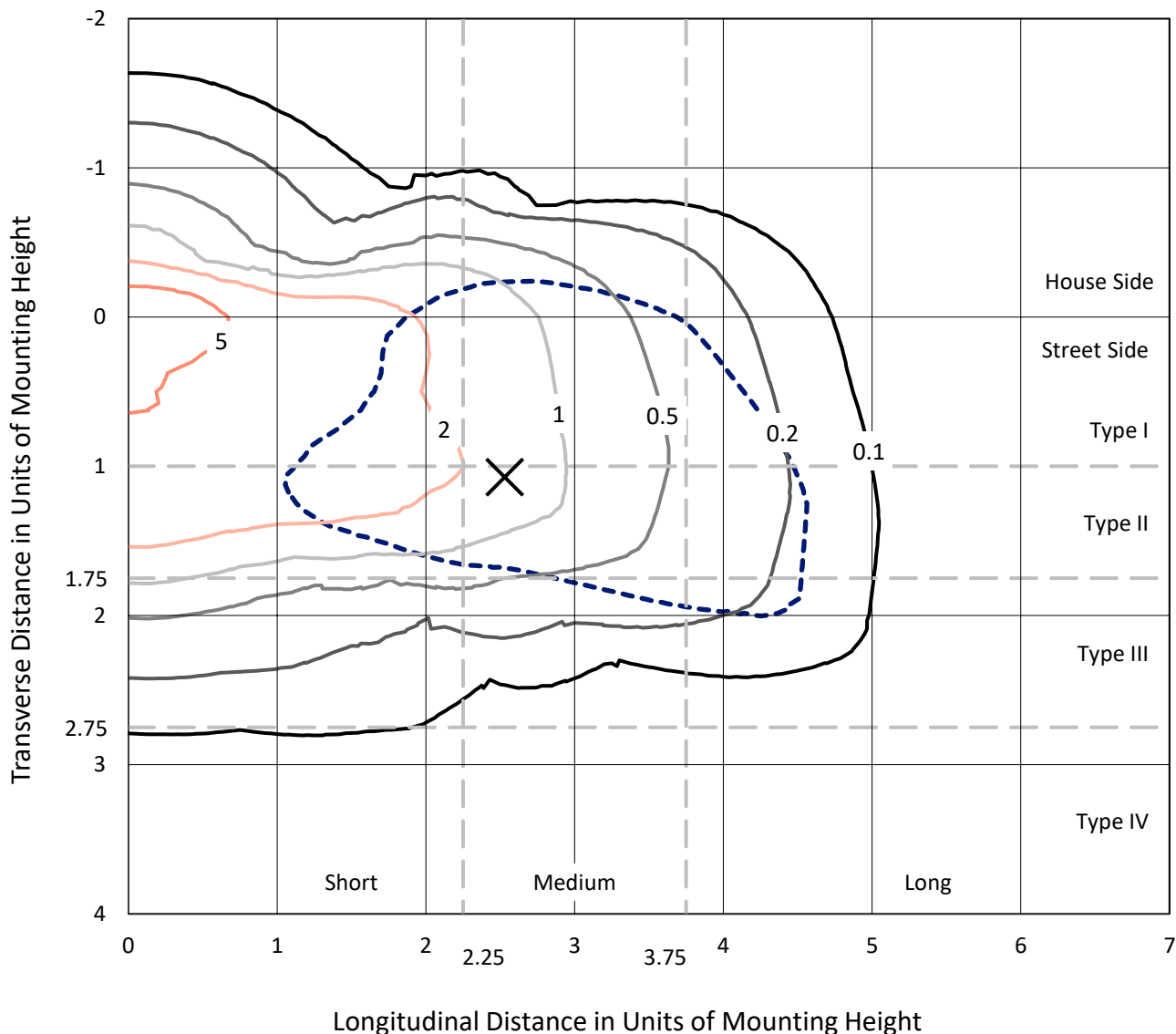
Lumens per Lamp: N/A  
Luminaire Lumens: 25107.7 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

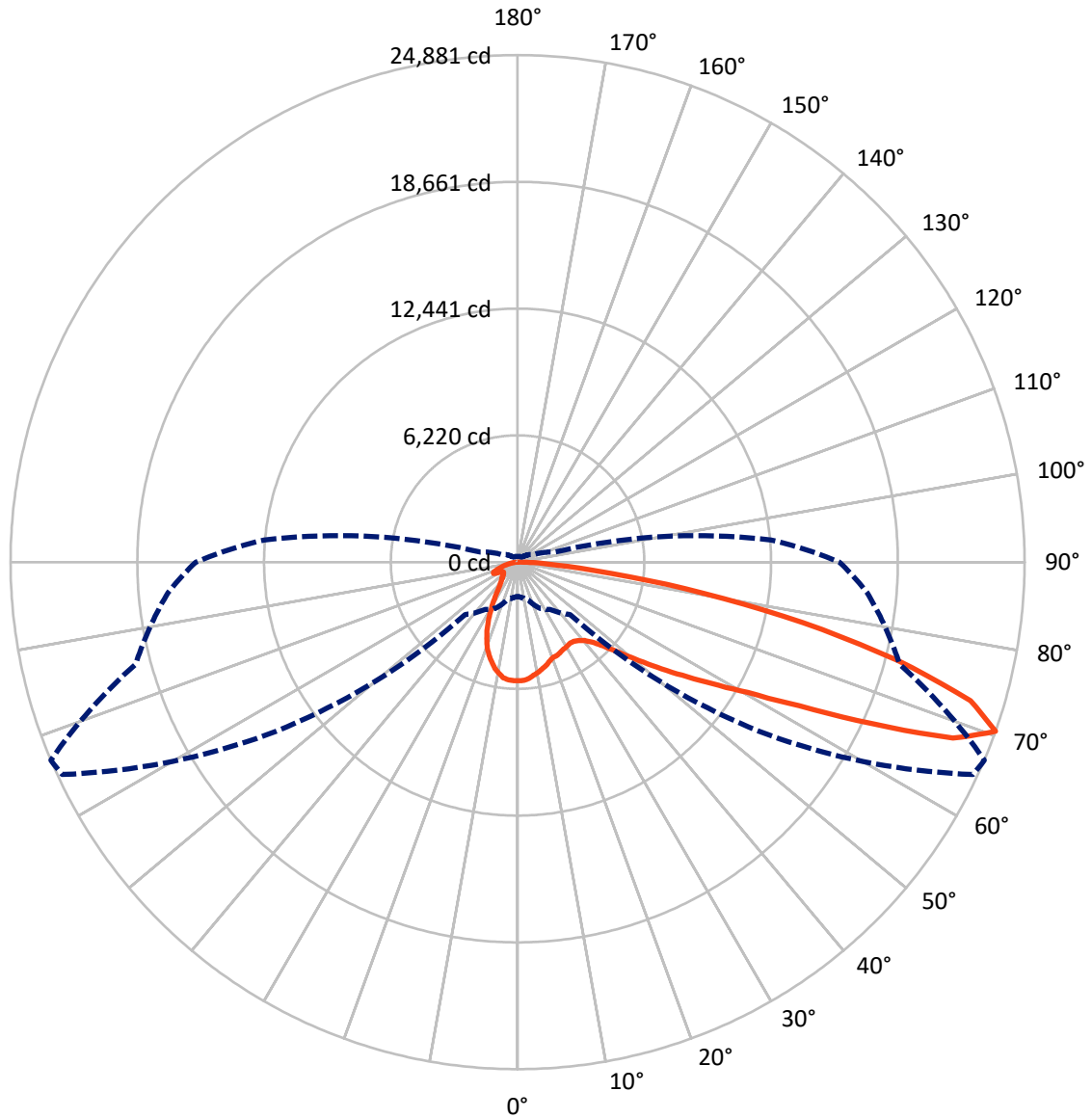
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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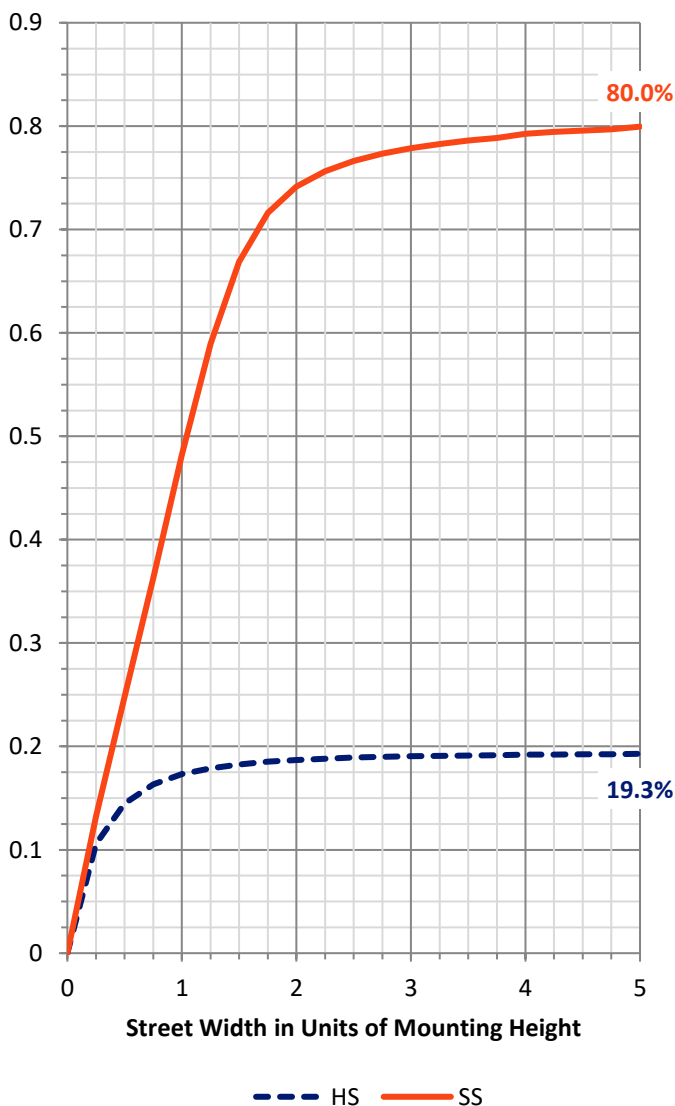
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4890.0	0.0	4890.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	20217.7	0.0	20217.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	25107.7	0.0	25107.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.1	2.0
10°-20°	1214.6	4.8
20°-30°	1640.2	6.5
30°-40°	2194.7	8.7
40°-50°	3227.3	12.9
50°-60°	5030.6	20.0
60°-70°	6196.8	24.7
70°-80°	4378.6	17.4
80°-90°	717.7	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°	25107.7	100.0
0°-180°	25107.7	100.0

**Coefficient of Utilization**

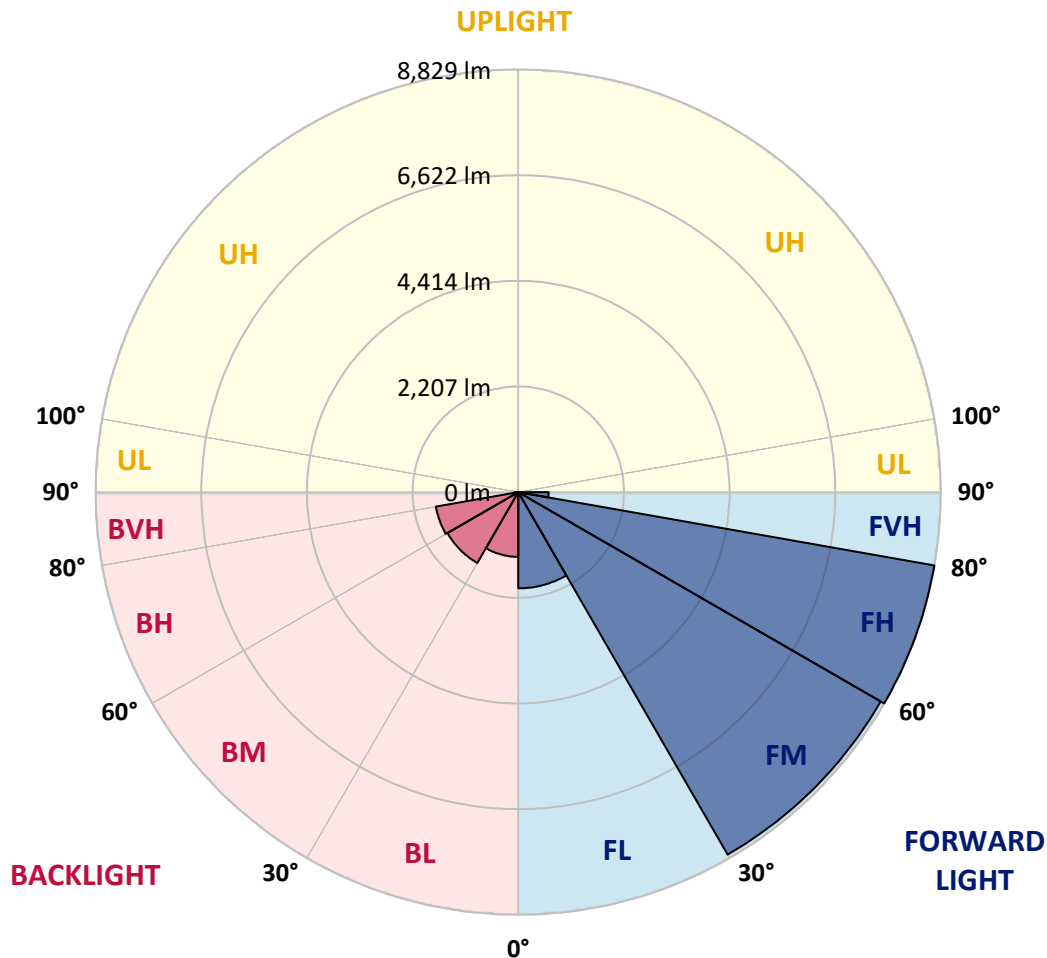


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.7	8.0			
FM (30°-60°)	8744.5	34.8			
FH (60°-80°)	8828.7	35.2			G4/12000
FVH (80°-90°)	634.9	2.5			G4/750
BL (0°-30°)	1352.2	5.4	B3/2500		
BM (30°-60°)	1708.2	6.8	B2/2500		
BH (60°-80°)	1746.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	82.8	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3
2.5°	5412.1	5473.2	5495.5	5528.8	5615.0	5678.9	5717.8	5762.3	5815.1	5859.6	5887.4
5°	5034.0	5067.4	5120.2	5156.3	5264.7	5437.1	5553.8	5742.9	5737.3	5806.8	5912.4
7.5°	4667.1	4700.5	4725.5	4797.8	4953.4	5109.1	5323.1	5628.9	5606.6	5767.9	5931.9
10°	4439.2	4414.2	4422.5	4544.8	4667.1	4842.2	5111.9	5423.2	5503.8	5754.0	5987.5
12.5°	4225.1	4197.3	4264.1	4341.9	4492.0	4650.4	4972.9	5253.6	5375.9	5703.9	6012.5
15°	4091.7	4072.3	4155.6	4189.0	4366.9	4555.9	4783.9	5125.8	5259.2	5642.8	5973.6
17.5°	4016.7	4033.3	4063.9	4136.2	4250.2	4411.4	4661.6	5039.6	5098.0	5567.7	5965.2
20°	4030.6	4050.0	4052.8	4083.4	4161.2	4286.3	4542.0	4947.9	4986.8	5553.8	5987.5
22.5°	4141.7	4114.0	4125.1	4105.6	4127.9	4225.1	4450.3	4825.6	4975.7	5437.1	5940.2
25°	4308.5	4269.6	4264.1	4197.3	4155.6	4183.4	4433.6	4795.0	4892.3	5401.0	5937.4
27.5°	4603.2	4544.8	4544.8	4444.7	4275.2	4230.7	4386.4	4744.9	4831.1	5367.6	5873.5
30°	4886.7	4886.7	4889.5	4747.7	4558.7	4339.1	4405.8	4725.5	4781.1	5267.5	5787.3
32.5°	5231.4	5223.1	5209.2	5139.7	4847.8	4519.8	4500.3	4700.5	4728.3	5234.2	5762.3
35°	5567.7	5545.5	5653.9	5592.8	5295.3	4872.8	4597.6	4711.6	4772.7	5184.1	5684.5
37.5°	5820.7	5834.6	6059.7	6098.7	5842.9	5273.1	4872.8	4822.8	4881.1	5256.4	5684.5
40°	6148.7	6204.3	6415.5	6546.2	6390.5	5801.2	5309.2	5009.0	5050.7	5417.6	5806.8
42.5°	6579.5	6626.8	6896.4	7066.0	7021.5	6473.9	5740.1	5398.2	5364.8	5687.3	5990.2
45°	7149.4	7157.7	7430.1	7663.6	7755.4	7177.2	6423.9	5890.2	5862.4	6151.5	6326.6
47.5°	7827.6	7819.3	7988.8	8239.0	8486.4	8016.6	7210.5	6637.9	6537.8	6815.8	6885.3
50°	8483.6	8447.5	8486.4	8806.1	9281.4	9067.4	8166.7	7552.4	7452.4	7605.3	7724.8
52.5°	8845.0	8889.5	8783.8	9206.4	10126.4	10309.9	9434.3	8644.9	8558.7	8633.7	8842.2
55°	8592.0	8683.8	8614.3	9014.6	10496.1	11824.8	11074.3	9909.6	9798.4	9770.6	10112.5
57.5°	7516.3	7683.1	7697.0	8330.8	10368.3	12997.9	13381.5	11402.3	11235.5	10952.0	11305.0
60°	5770.7	5937.4	6065.3	6815.8	9273.1	13698.3	16055.5	13526.0	12975.6	12241.8	12453.0
62.5°	4044.5	4158.4	4286.3	4747.7	7149.4	13287.0	18368.2	16517.0	15502.4	13601.1	13865.1
65°	2946.5	3035.4	3166.1	3438.5	4391.9	10993.7	19441.2	20069.4	19107.6	15330.0	15296.7
67.5°	2218.2	2273.8	2446.1	2882.5	3043.8	6790.8	18329.3	23822.0	23043.7	17250.8	16447.5
70°	1678.9	1726.2	1887.4	2485.0	2843.6	3641.4	14460.0	24658.7	24881.1	19405.1	17220.2
72.5°	1156.4	1209.2	1389.8	2070.9	2707.4	2888.1	9075.7	22401.6	23243.8	20291.8	16391.9
75°	708.8	745.0	850.6	1570.5	2688.0	2824.2	4995.1	18357.1	19249.4	18749.1	14340.5
77.5°	500.3	497.6	517.0	920.1	2329.4	2840.9	3079.9	13451.0	14318.2	13817.9	9731.7
80°	364.1	366.9	386.4	550.4	1581.6	2888.1	2426.7	9009.0	9267.5	7205.0	3838.8
82.5°	219.6	230.7	278.0	372.5	950.7	2607.4	2243.2	5006.2	4683.8	2312.7	1056.3
85°	116.7	116.7	164.0	236.3	505.9	1945.8	2159.8	2382.2	1995.8	717.2	391.9
87.5°	27.8	27.8	47.3	94.5	202.9	931.2	1473.2	947.9	758.9	241.8	161.2
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°	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3
2.5°	5876.3	5842.9	5884.6	5801.2	5734.5	5737.3	5634.4	5628.9	5615.0	5542.7	5567.7
5°	5943.0	5915.2	5867.9	5776.2	5628.9	5481.6	5392.6	5278.6	5231.4	5206.4	5217.5
7.5°	6006.9	5956.9	5820.7	5692.8	5464.9	5186.9	5025.7	4872.8	4678.2	4656.0	4617.1
10°	6023.6	5918.0	5742.9	5470.4	5167.5	4858.9	4492.0	4208.5	4058.4	3941.6	3897.1
12.5°	5998.6	5954.1	5617.8	5267.5	4808.9	4325.2	3897.1	3496.9	3218.9	3074.3	3035.4
15°	5995.8	5918.0	5478.8	4959.0	4372.5	3741.5	3132.7	2651.8	2360.0	2240.4	2240.4
17.5°	5998.6	5812.3	5314.8	4647.7	3858.2	3004.9	2334.9	1940.2	1779.0	1762.3	1776.2
20°	5943.0	5734.5	5142.4	4280.7	3213.3	2257.1	1695.6	1534.4	1534.4	1556.6	1565.0
22.5°	5893.0	5617.8	4870.0	3827.6	2557.3	1634.5	1378.7	1331.5	1384.3	1423.2	1439.9
25°	5823.5	5520.5	4592.1	3357.9	1945.8	1317.6	1198.0	1209.2	1259.2	1328.7	1323.1
27.5°	5723.4	5350.9	4261.3	2813.1	1448.2	1136.9	1106.3	1111.9	1164.7	1195.3	1189.7
30°	5609.4	5178.6	3955.5	2271.0	1148.0	1042.4	1039.6	1053.5	1061.8	1078.5	1075.7
32.5°	5464.9	4950.6	3630.3	1765.1	1034.0	989.6	978.5	970.1	978.5	975.7	967.3
35°	5362.0	4828.3	3299.5	1345.4	970.1	942.3	934.0	920.1	909.0	892.3	889.5
37.5°	5334.2	4706.0	2952.0	1098.0	920.1	906.2	878.4	853.4	839.5	831.1	825.6
40°	5317.6	4625.4	2612.9	964.6	878.4	864.5	831.1	797.8	783.9	775.5	778.3
42.5°	5375.9	4580.9	2268.2	897.8	842.2	817.2	781.1	742.2	739.4	733.8	742.2
45°	5581.6	4636.5	1948.6	850.6	806.1	764.4	717.2	697.7	694.9	689.4	694.9
47.5°	6048.6	4775.5	1676.2	820.0	767.2	731.1	681.0	653.2	650.4	647.7	647.7
50°	6693.5	5203.6	1448.2	783.9	742.2	692.1	644.9	614.3	608.8	597.6	597.6
52.5°	7705.3	5923.5	1312.0	764.4	697.7	656.0	606.0	572.6	558.7	547.6	547.6
55°	8845.0	6815.8	1287.0	731.1	650.4	611.5	567.1	533.7	519.8	505.9	500.3
57.5°	10143.1	7997.2	1464.9	708.8	617.1	567.1	517.0	486.4	475.3	461.4	455.9
60°	11352.3	9175.8	2018.1	675.5	586.5	525.4	475.3	444.8	430.9	417.0	417.0
62.5°	12750.5	10635.1	2954.8	675.5	558.7	480.9	430.9	408.6	400.3	386.4	383.6
65°	14404.4	12144.5	3638.6	717.2	550.4	442.0	389.2	366.9	358.6	350.2	347.5
67.5°	15663.6	13011.8	3129.9	828.3	586.5	408.6	347.5	333.6	328.0	319.7	314.1
70°	15797.0	12483.6	1887.4	895.1	622.7	375.3	311.3	297.4	297.4	289.1	283.5
72.5°	14599.0	11077.1	1270.3	797.8	564.3	336.3	275.2	264.1	258.5	253.0	250.2
75°	12216.8	9395.4	1003.5	636.6	433.6	278.0	239.1	227.9	219.6	216.8	211.3
77.5°	8205.7	6107.0	742.2	497.6	319.7	225.2	200.1	189.0	180.7	177.9	169.6
80°	3152.2	2326.6	478.1	361.4	225.2	177.9	158.4	147.3	141.8	133.4	127.9
82.5°	928.4	753.3	266.9	222.4	144.5	122.3	114.0	105.6	97.3	89.0	86.2
85°	383.6	344.7	164.0	116.7	89.0	72.3	66.7	58.4	50.0	44.5	38.9
87.5°	177.9	147.3	75.1	44.5	30.6	16.7	8.3	2.8	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)