

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: P480630

Luminaire Tested: **IFLD-S-SA6C-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480630  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

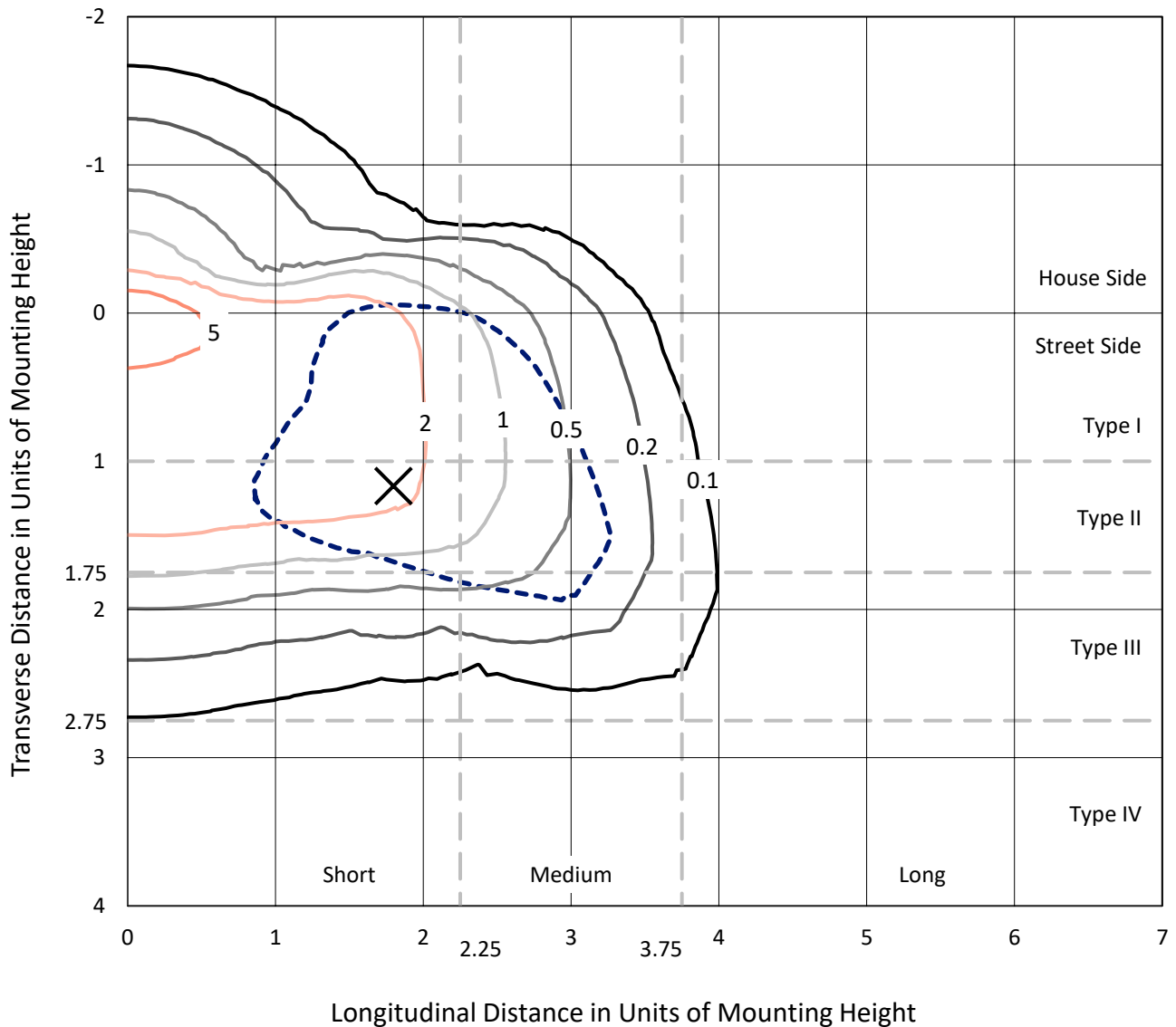
Lumens per Lamp: N/A  
Luminaire Lumens: 30139.3 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
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

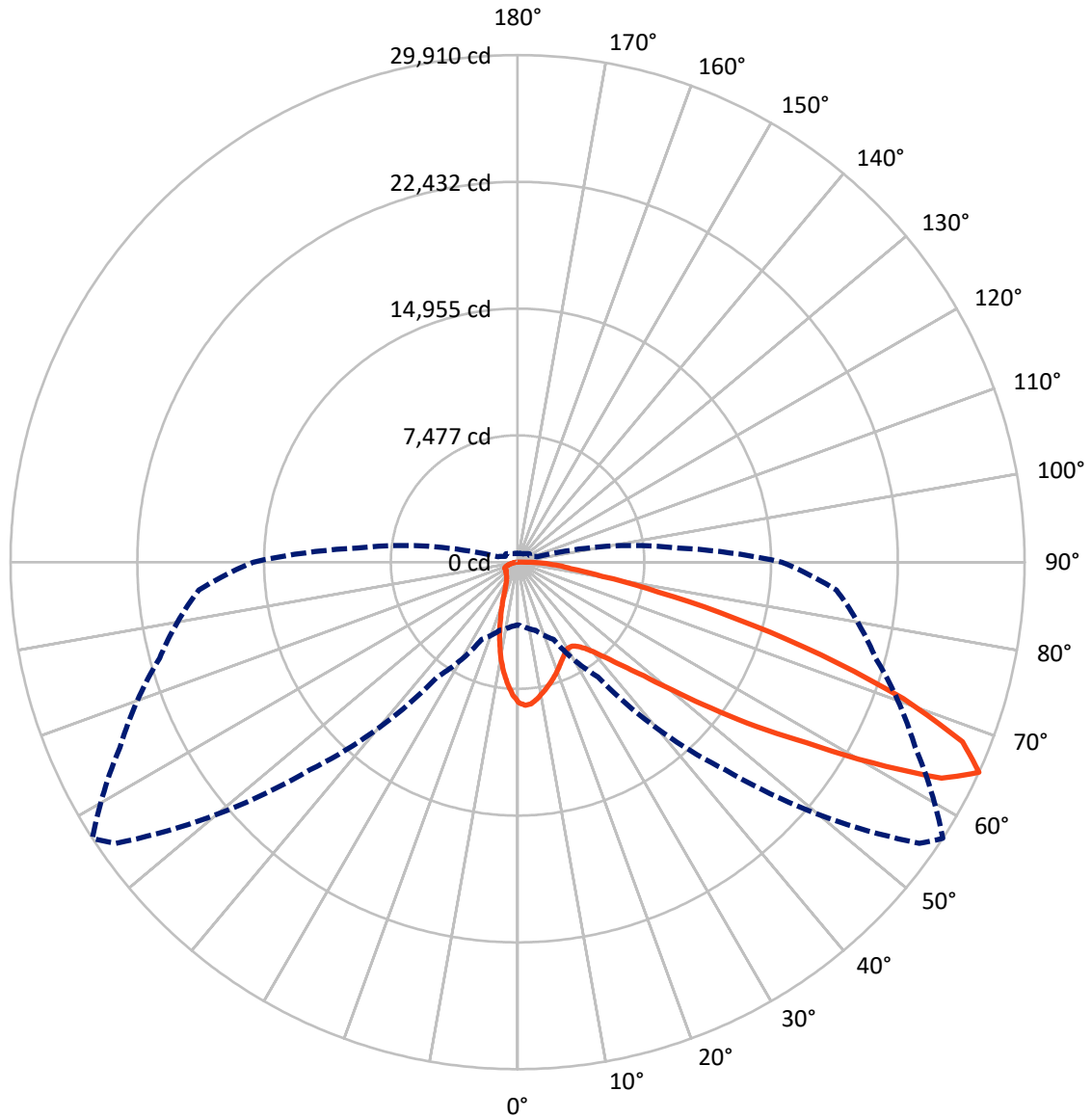
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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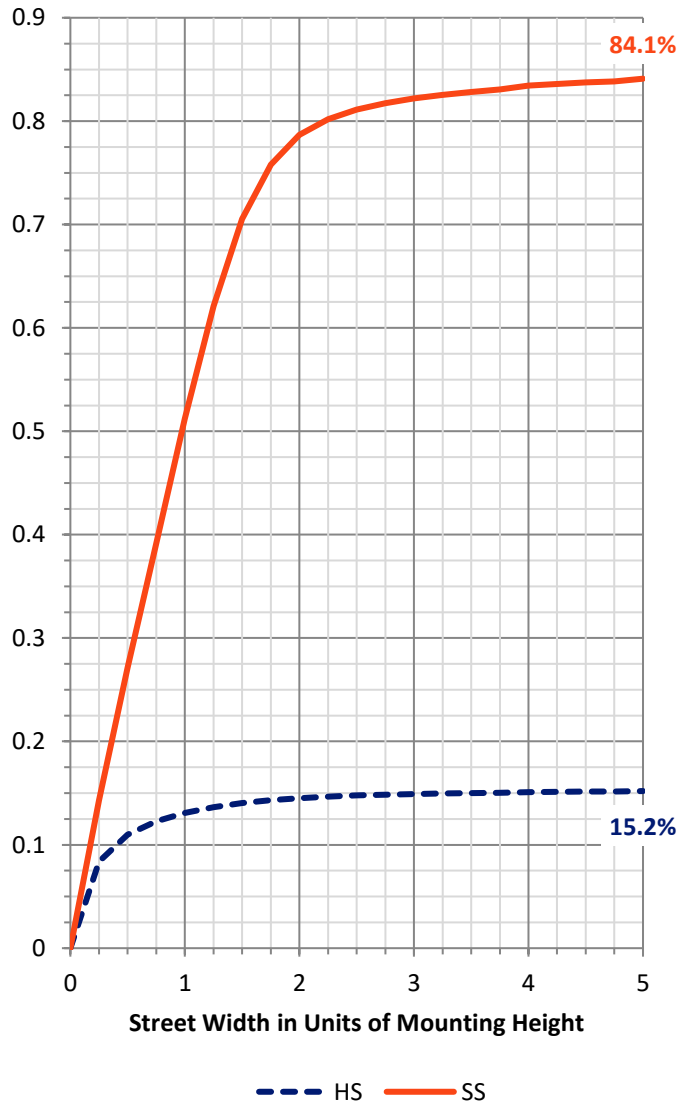
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4622.1	0.0	4622.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	25517.1	0.0	25517.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	30139.3	0.0	30139.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	694.0	2.3
10°-20°	1493.7	5.0
20°-30°	1931.2	6.4
30°-40°	2598.8	8.6
40°-50°	4143.9	13.7
50°-60°	7319.1	24.3
60°-70°	8052.0	26.7
70°-80°	3368.3	11.2
80°-90°	538.3	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°	30139.3	100.0
0°-180°	30139.3	100.0

**Coefficient of Utilization**



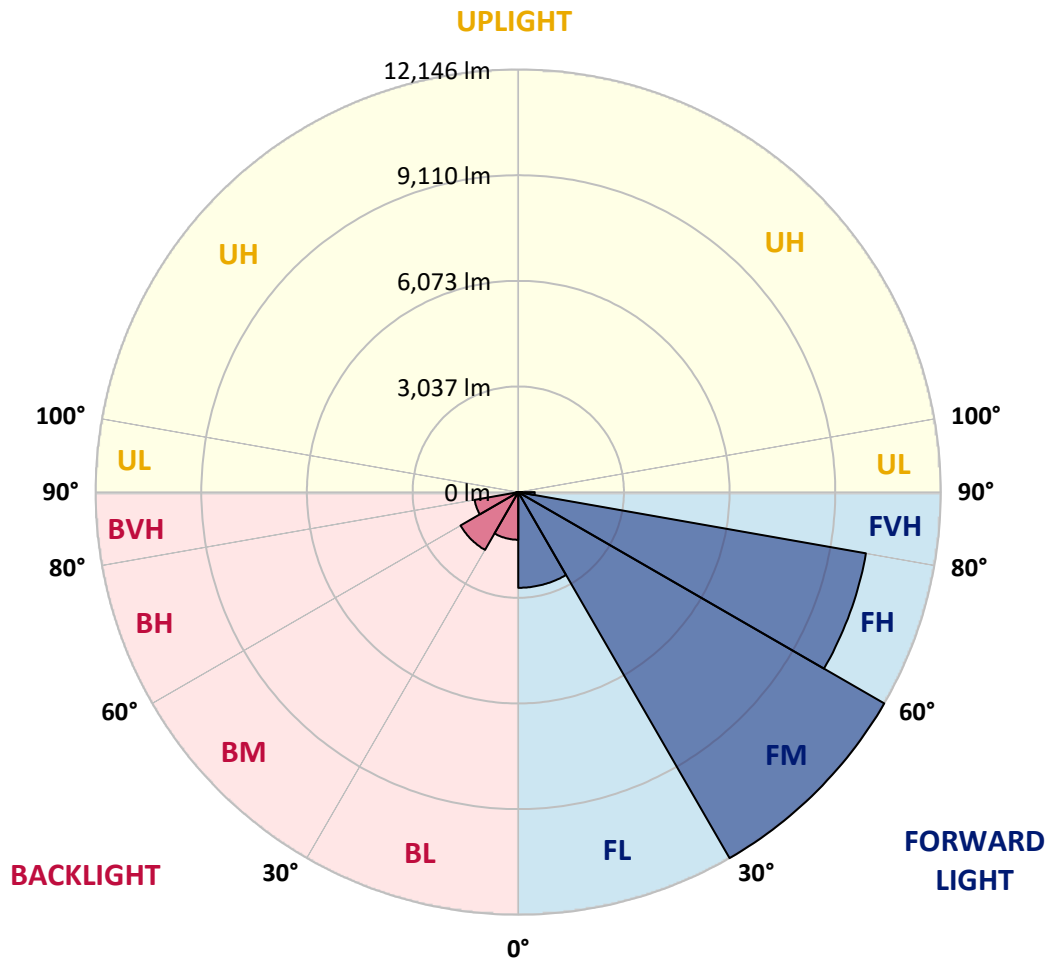
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2750.1	9.1			
FM (30°-60°)	12146.1	40.3			
FH (60°-80°)	10145.8	33.7			G4/12000
FVH (80°-90°)	475.2	1.6			G3/500
BL (0°-30°)	1368.9	4.5	B3/2500		
BM (30°-60°)	1915.7	6.4	B2/2500		
BH (60°-80°)	1274.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	63.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9
2.5°	8511.7	8525.3	8525.3	8552.4	8460.8	8504.9	8498.1	8457.4	8471.0	8399.8	8328.6
5°	8270.9	8260.7	8315.0	8321.8	8393.0	8413.3	8430.3	8403.2	8410.0	8254.0	8186.1
7.5°	7653.7	7650.3	7741.9	7819.9	7969.1	8108.1	8199.7	8172.6	8209.9	8111.5	7952.2
10°	6921.3	6999.3	7094.2	7172.2	7446.9	7623.2	7860.6	7884.3	8026.8	8003.0	7714.8
12.5°	6371.9	6405.8	6477.0	6700.8	6951.8	7243.4	7582.5	7613.0	7752.1	7819.9	7569.0
15°	5920.9	5951.4	6043.0	6209.1	6490.6	6836.5	7267.2	7345.1	7623.2	7647.0	7379.1
17.5°	5591.9	5615.7	5676.7	5842.9	6073.5	6517.7	6924.7	7063.7	7429.9	7545.2	7182.4
20°	5463.1	5412.2	5446.1	5551.2	5781.8	6124.3	6650.0	6772.1	7240.0	7467.2	6995.9
22.5°	5405.4	5361.3	5381.7	5374.9	5558.0	5802.2	6354.9	6483.8	7060.3	7375.7	6829.7
25°	5449.5	5449.5	5429.2	5412.2	5432.6	5591.9	6036.2	6236.3	6819.5	7297.7	6660.1
27.5°	5686.9	5595.3	5605.5	5534.3	5513.9	5513.9	5893.8	6012.4	6741.5	7253.6	6521.1
30°	5839.5	5883.6	5887.0	5781.8	5676.7	5486.8	5761.5	5876.8	6677.1	7307.8	6439.7
32.5°	6229.5	6209.1	6151.5	6131.1	5975.1	5761.5	5825.9	5903.9	6639.8	7429.9	6463.5
35°	6619.5	6609.3	6612.7	6602.5	6439.7	6124.3	5998.9	6104.0	6707.6	7643.6	6544.8
37.5°	7023.0	7050.1	7165.4	7165.4	6992.5	6650.0	6483.8	6453.3	6955.2	7992.9	6738.1
40°	7426.5	7494.4	7640.2	7870.8	7626.6	7307.8	7039.9	6992.5	7253.6	8460.8	7202.7
42.5°	7813.1	7925.0	8213.3	8555.8	8474.4	8155.6	7799.6	7745.3	7867.4	9156.0	7850.4
45°	8308.2	8403.2	8857.6	9383.2	9495.1	9213.7	8796.5	8752.5	8745.7	10173.3	8742.3
47.5°	9061.1	9162.8	9617.2	10146.2	10492.1	10536.2	10068.2	10020.7	9858.0	11546.7	10047.9
50°	10003.8	10169.9	10553.1	11170.3	11672.2	12143.6	12011.3	11872.3	11553.5	13143.9	11702.7
52.5°	10692.2	10895.6	11414.5	12204.6	13089.7	13839.1	14313.9	14313.9	13581.4	14897.2	13693.3
55°	10875.3	10997.4	11651.9	12794.7	14310.5	16206.1	17199.7	17125.1	15995.9	16741.9	16009.4
57.5°	10146.2	10305.6	11099.1	12296.2	14951.4	18420.5	20065.2	20082.2	18634.2	18885.1	18295.0
60°	8138.7	8189.5	9125.5	10726.1	14334.2	20204.2	23978.6	24043.0	21635.3	20794.3	19458.2
62.5°	5625.9	5788.6	6494.0	7897.9	11875.7	20004.2	27752.9	28071.6	24039.6	21801.5	19641.3
65°	3703.1	3801.4	4177.8	5032.4	8267.5	17338.8	28926.2	29909.6	25877.6	21859.1	18874.9
67.5°	2685.8	2702.7	2814.6	3255.5	4968.0	12469.1	26922.0	28309.0	26566.0	21377.6	17077.6
70°	2170.3	2183.9	2224.6	2506.0	3208.0	7802.9	21957.4	24131.2	24500.8	19095.4	13754.3
72.5°	1763.4	1780.3	1831.2	2095.7	2645.1	4340.6	16056.9	18705.4	19929.6	14127.4	9142.4
75°	1387.0	1400.5	1522.6	1783.7	2485.7	2980.8	10651.5	13245.7	13411.8	8257.4	4279.6
77.5°	949.5	973.2	1122.5	1512.4	2339.9	2607.8	6639.8	8484.6	7613.0	3231.7	1471.7
80°	603.6	637.5	725.7	1146.2	2068.6	2489.1	4130.4	5066.3	3333.5	1105.5	708.7
82.5°	356.1	390.0	478.1	742.7	1624.3	2309.3	2909.6	3170.7	1563.3	566.3	427.3
85°	196.7	220.4	288.2	447.6	952.9	2051.6	2329.7	2275.4	895.3	301.8	267.9
87.5°	64.4	74.6	105.1	179.7	393.4	966.5	1397.1	1312.4	464.6	139.0	105.1
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°	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9	8287.9
2.5°	8281.1	8270.9	8118.3	8003.0	7806.3	7643.6	7579.1	7491.0	7487.6	7423.1	7406.2
5°	8081.0	7975.9	7741.9	7518.1	7168.8	6934.8	6721.2	6572.0	6510.9	6378.7	6348.2
7.5°	7823.3	7684.3	7324.8	6904.3	6494.0	6127.7	5795.4	5463.1	5276.6	5212.1	5140.9
10°	7555.4	7311.2	6778.8	6307.5	5734.4	5171.4	4649.2	4181.2	3926.9	3747.2	3669.2
12.5°	7341.8	7016.2	6338.0	5632.6	4876.4	4123.6	3516.6	3024.9	2736.6	2601.0	2539.9
15°	7101.0	6670.3	5856.4	4964.6	4021.9	3167.3	2573.9	2187.3	2072.0	2007.5	1997.4
17.5°	6846.7	6348.2	5334.2	4306.7	3187.6	2384.0	2000.8	1844.8	1793.9	1766.8	1753.2
20°	6609.3	6059.9	4798.4	3574.2	2495.9	1912.6	1732.9	1651.5	1648.1	1661.6	1658.3
22.5°	6273.6	5683.5	4269.4	2896.0	1994.0	1665.0	1549.7	1529.4	1549.7	1566.7	1573.5
25°	6083.7	5374.9	3679.4	2299.2	1648.1	1478.5	1441.2	1434.4	1465.0	1485.3	1481.9
27.5°	5887.0	5056.1	3130.0	1841.4	1444.6	1346.3	1339.5	1346.3	1376.8	1407.3	1403.9
30°	5734.4	4801.8	2614.5	1539.6	1288.6	1251.3	1244.5	1251.3	1268.3	1271.7	1271.7
32.5°	5608.9	4500.0	2177.1	1336.1	1193.7	1163.2	1169.9	1166.5	1169.9	1173.3	1176.7
35°	5534.3	4320.3	1817.6	1210.6	1115.7	1091.9	1088.5	1078.4	1081.8	1085.2	1081.8
37.5°	5693.7	4232.1	1532.8	1122.5	1061.4	1041.1	1034.3	1027.5	1017.3	1017.3	1017.3
40°	5934.4	4184.6	1359.8	1064.8	1020.7	997.0	976.6	969.9	969.9	973.2	976.6
42.5°	6412.6	4262.6	1241.1	1020.7	969.9	942.7	922.4	925.8	935.9	946.1	939.3
45°	7104.4	4500.0	1186.9	986.8	939.3	902.0	888.5	885.1	895.3	912.2	925.8
47.5°	8009.8	4869.6	1166.5	956.3	919.0	868.1	851.2	861.3	874.9	898.6	888.5
50°	9491.7	5700.5	1183.5	929.2	888.5	851.2	830.8	820.6	830.8	847.8	854.6
52.5°	11428.0	7209.5	1247.9	915.6	868.1	837.6	803.7	786.7	796.9	810.5	810.5
55°	13744.2	9271.3	1427.7	898.6	834.2	817.3	780.0	746.0	752.8	752.8	749.4
57.5°	15785.6	10827.8	1641.3	874.9	813.9	790.1	742.7	702.0	695.2	698.6	702.0
60°	16701.2	11241.5	1743.0	868.1	813.9	756.2	691.8	651.1	640.9	634.1	634.1
62.5°	16541.8	10526.0	1536.2	837.6	834.2	729.1	644.3	600.2	586.7	573.1	576.5
65°	15578.8	9505.3	1210.6	796.9	837.6	712.1	596.8	552.8	529.0	512.1	508.7
67.5°	13818.8	8114.9	959.7	766.4	803.7	681.6	556.1	505.3	484.9	468.0	461.2
70°	10810.9	6361.7	834.2	725.7	722.3	607.0	508.7	464.6	434.1	413.7	413.7
72.5°	7009.4	4021.9	715.5	644.3	624.0	508.7	440.8	413.7	390.0	373.0	373.0
75°	3174.1	1868.5	576.5	539.2	508.7	406.9	373.0	359.5	339.1	322.2	322.2
77.5°	1139.4	796.9	430.7	423.9	379.8	315.4	301.8	291.6	278.1	261.1	261.1
80°	637.5	505.3	322.2	308.6	264.5	234.0	217.0	217.0	210.2	200.1	196.7
82.5°	403.5	328.9	237.4	206.9	172.9	156.0	149.2	145.8	142.4	128.9	125.5
85°	254.3	223.8	156.0	122.1	101.7	78.0	74.6	71.2	64.4	57.6	57.6
87.5°	115.3	128.9	61.0	37.3	27.1	17.0	10.2	3.4	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)