

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: P479980

Luminaire Tested: **IFLD-L-SA8A-722-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479980  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-722-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

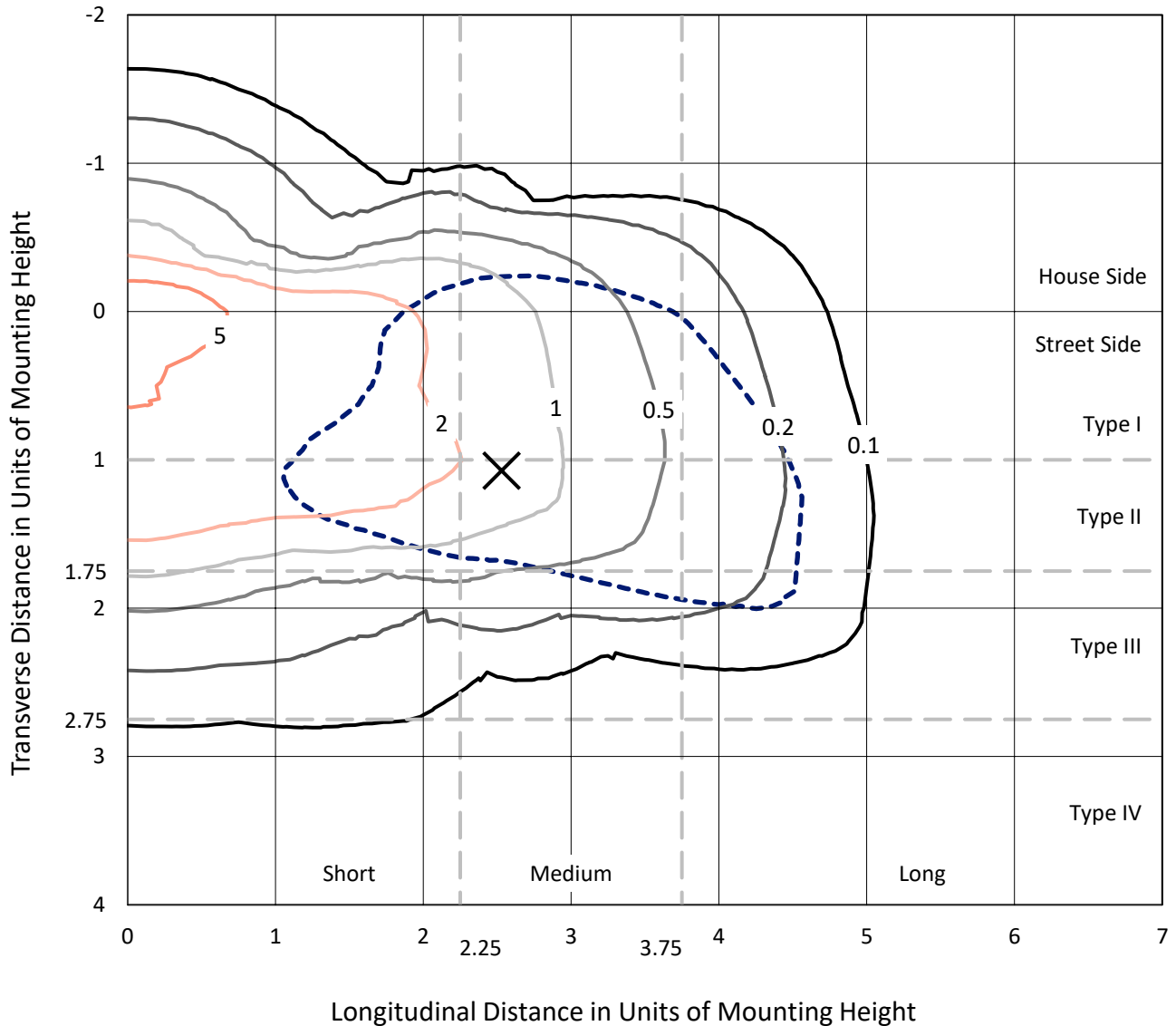
Lumens per Lamp: N/A  
Luminaire Lumens: 25158.9 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

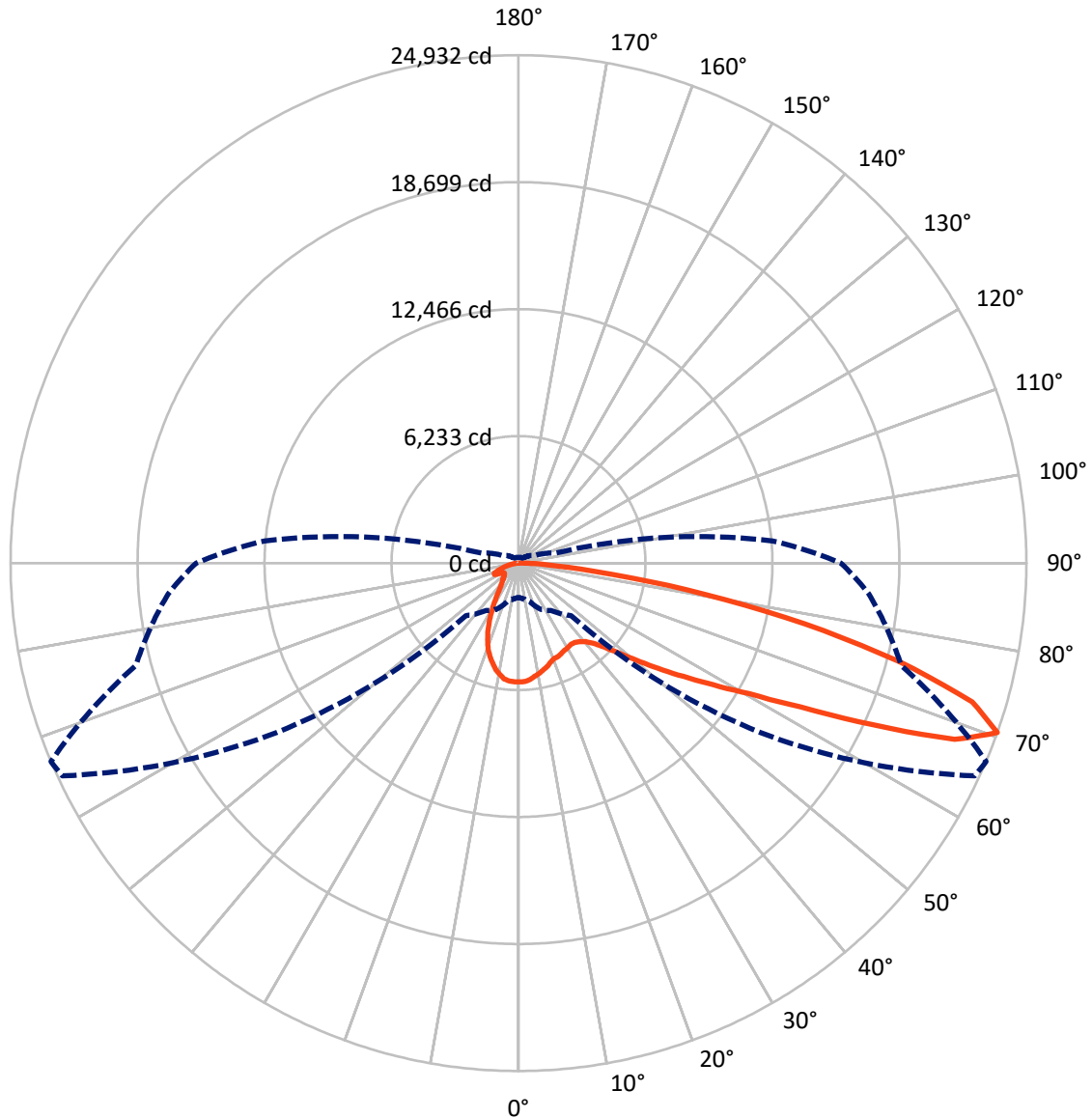
× Max cd  
 - - - 1/2 Max cd



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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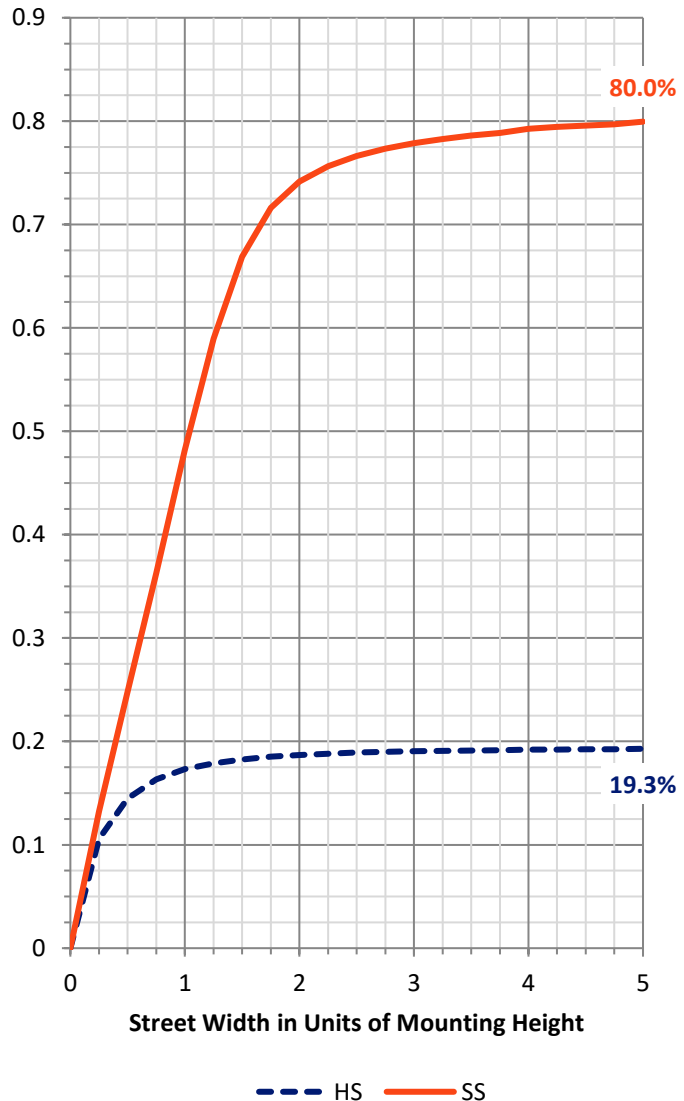
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4899.9	0.0	4899.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	20259.0	0.0	20259.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	25158.9	0.0	25158.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.2	2.0
10°-20°	1217.1	4.8
20°-30°	1643.5	6.5
30°-40°	2199.2	8.7
40°-50°	3233.9	12.9
50°-60°	5040.8	20.0
60°-70°	6209.5	24.7
70°-80°	4387.6	17.4
80°-90°	719.1	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°	25158.9	100.0
0°-180°	25158.9	100.0

**Coefficient of Utilization**

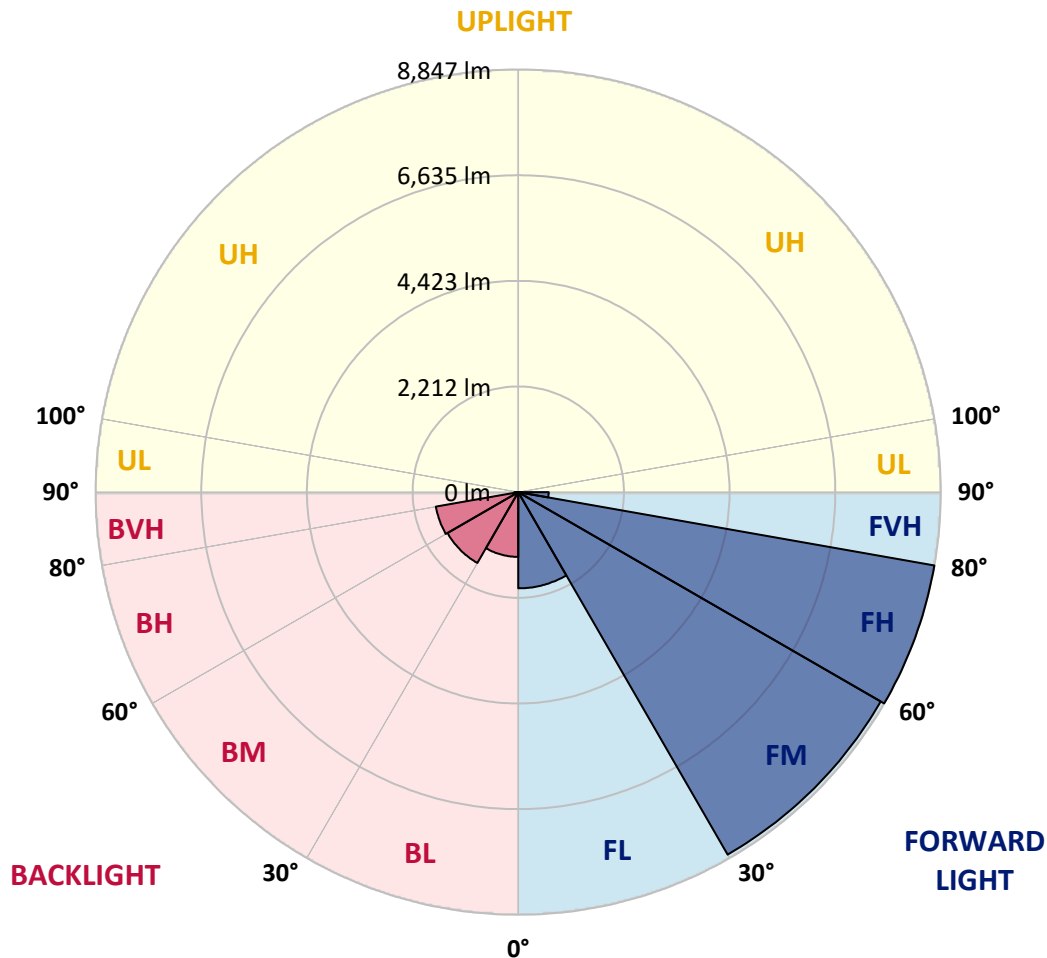


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.8	8.0			
FM (30°-60°)	8762.3	34.8			
FH (60°-80°)	8846.7	35.2			G4/12000
FVH (80°-90°)	636.2	2.5			G4/750
BL (0°-30°)	1355.0	5.4	B3/2500		
BM (30°-60°)	1711.7	6.8	B2/2500		
BH (60°-80°)	1750.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	83.0	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°	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2
2.5°	5423.1	5484.4	5506.7	5540.1	5626.4	5690.5	5729.5	5774.1	5827.0	5871.6	5899.4
5°	5044.3	5077.7	5130.6	5166.9	5275.5	5448.2	5565.2	5754.6	5749.0	5818.6	5924.5
7.5°	4676.6	4710.1	4735.1	4807.5	4963.5	5119.5	5334.0	5640.4	5618.1	5779.6	5944.0
10°	4448.2	4423.2	4431.5	4554.1	4676.6	4852.1	5122.3	5434.3	5515.0	5765.7	5999.7
12.5°	4233.8	4205.9	4272.8	4350.7	4501.2	4659.9	4983.0	5264.3	5386.9	5715.6	6024.8
15°	4100.1	4080.6	4164.1	4197.6	4375.8	4565.2	4793.6	5136.2	5269.9	5654.3	5985.8
17.5°	4024.9	4041.6	4072.2	4144.6	4258.8	4420.4	4671.1	5049.9	5108.4	5579.1	5977.4
20°	4038.8	4058.3	4061.1	4091.7	4169.7	4295.0	4551.3	4958.0	4997.0	5565.2	5999.7
22.5°	4150.2	4122.3	4133.5	4114.0	4136.3	4233.8	4459.4	4835.4	4985.8	5448.2	5952.3
25°	4317.3	4278.3	4272.8	4205.9	4164.1	4192.0	4442.7	4804.8	4902.2	5412.0	5949.5
27.5°	4612.6	4554.1	4554.1	4453.8	4283.9	4239.3	4395.3	4754.6	4841.0	5378.5	5885.5
30°	4896.7	4896.7	4899.5	4757.4	4568.0	4348.0	4414.8	4735.1	4790.8	5278.3	5799.1
32.5°	5242.1	5233.7	5219.8	5150.1	4857.7	4529.0	4509.5	4710.1	4737.9	5244.9	5774.1
35°	5579.1	5556.8	5665.4	5604.2	5306.1	4882.8	4607.0	4721.2	4782.5	5194.7	5696.1
37.5°	5832.6	5846.5	6072.1	6111.1	5854.8	5283.8	4882.8	4832.6	4891.1	5267.1	5696.1
40°	6161.2	6216.9	6428.6	6559.5	6403.6	5813.1	5320.1	5019.2	5061.0	5428.7	5818.6
42.5°	6593.0	6640.3	6910.5	7080.4	7035.8	6487.1	5751.8	5409.2	5375.8	5698.9	6002.5
45°	7164.0	7172.3	7445.3	7679.3	7771.2	7191.8	6437.0	5902.2	5874.3	6164.0	6339.5
47.5°	7843.6	7835.2	8005.2	8255.8	8503.7	8033.0	7225.2	6651.5	6551.2	6829.7	6899.4
50°	8500.9	8464.7	8503.7	8824.0	9300.3	9085.9	8183.4	7567.8	7467.6	7620.8	7740.5
52.5°	8863.0	8907.6	8801.8	9225.1	10147.1	10330.9	9453.5	8662.5	8576.2	8651.4	8860.3
55°	8609.6	8701.5	8631.9	9033.0	10517.6	11849.0	11096.9	9929.8	9818.4	9790.6	10133.2
57.5°	7531.6	7698.8	7712.7	8347.8	10389.4	13024.4	13408.8	11425.6	11258.5	10974.4	11328.1
60°	5782.4	5949.5	6077.7	6829.7	9292.0	13726.3	16088.3	13553.6	13002.1	12266.8	12478.5
62.5°	4052.7	4166.9	4295.0	4757.4	7164.0	13314.1	18405.7	16550.7	15534.0	13628.8	13893.4
65°	2952.5	3041.6	3172.5	3445.5	4400.9	11016.1	19480.9	20110.4	19146.6	15361.3	15327.9
67.5°	2222.7	2278.4	2451.1	2888.4	3050.0	6804.7	18366.7	23870.6	23090.7	17286.0	16481.0
70°	1682.4	1729.7	1891.3	2490.1	2849.4	3648.8	14489.5	24709.0	24931.8	19444.7	17255.4
72.5°	1158.7	1211.6	1392.7	2075.1	2712.9	2894.0	9094.2	22447.3	23291.3	20333.2	16425.3
75°	710.3	746.5	852.3	1573.7	2693.5	2829.9	5005.3	18394.6	19288.7	18787.3	14369.7
77.5°	501.4	498.6	518.1	922.0	2334.1	2846.6	3086.2	13478.4	14347.4	13846.1	9751.6
80°	364.9	367.7	387.2	551.5	1584.9	2894.0	2431.6	9027.4	9286.4	7219.7	3846.6
82.5°	220.0	231.2	278.5	373.2	952.6	2612.7	2247.8	5016.4	4693.3	2317.4	1058.4
85°	117.0	117.0	164.3	236.8	506.9	1949.8	2164.2	2387.1	1999.9	718.6	392.7
87.5°	27.9	27.9	47.4	94.7	203.3	933.1	1476.2	949.8	760.4	242.3	161.6
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°	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2
2.5°	5888.3	5854.8	5896.6	5813.1	5746.2	5749.0	5645.9	5640.4	5626.4	5554.0	5579.1
5°	5955.1	5927.3	5879.9	5788.0	5640.4	5492.7	5403.6	5289.4	5242.1	5217.0	5228.1
7.5°	6019.2	5969.0	5832.6	5704.4	5476.0	5197.5	5035.9	4882.8	4687.8	4665.5	4626.5
10°	6035.9	5930.1	5754.6	5481.6	5178.0	4868.8	4501.2	4217.0	4066.6	3949.7	3905.1
12.5°	6010.8	5966.3	5629.2	5278.3	4818.7	4334.0	3905.1	3504.0	3225.5	3080.6	3041.6
15°	6008.0	5930.1	5490.0	4969.1	4381.4	3749.1	3139.1	2657.2	2364.8	2245.0	2245.0
17.5°	6010.8	5824.2	5325.6	4657.1	3866.1	3011.0	2339.7	1944.2	1782.6	1765.9	1779.9
20°	5955.1	5746.2	5152.9	4289.5	3219.9	2261.7	1699.1	1537.5	1537.5	1559.8	1568.2
22.5°	5905.0	5629.2	4880.0	3835.5	2562.5	1637.8	1381.5	1334.2	1387.1	1426.1	1442.8
25°	5835.3	5531.7	4601.4	3364.7	1949.8	1320.3	1200.5	1211.6	1261.8	1331.4	1325.8
27.5°	5735.1	5361.8	4270.0	2818.8	1451.2	1139.2	1108.6	1114.1	1167.1	1197.7	1192.1
30°	5620.9	5189.1	3963.6	2275.6	1150.4	1044.5	1041.7	1055.7	1064.0	1080.7	1077.9
32.5°	5476.0	4960.7	3637.7	1768.7	1036.2	991.6	980.4	972.1	980.4	977.7	969.3
35°	5373.0	4838.2	3306.2	1348.1	972.1	944.2	935.9	922.0	910.8	894.1	891.3
37.5°	5345.1	4715.6	2958.1	1100.2	922.0	908.0	880.2	855.1	841.2	832.8	827.3
40°	5328.4	4634.9	2618.2	966.5	880.2	866.2	832.8	799.4	785.5	777.1	779.9
42.5°	5386.9	4590.3	2272.9	899.7	844.0	818.9	782.7	743.7	740.9	735.3	743.7
45°	5593.0	4646.0	1952.5	852.3	807.8	766.0	718.6	699.1	696.3	690.8	696.3
47.5°	6061.0	4785.3	1679.6	821.7	768.8	732.6	682.4	654.6	651.8	649.0	649.0
50°	6707.2	5214.2	1451.2	785.5	743.7	693.6	646.2	615.6	610.0	598.9	598.9
52.5°	7721.0	5935.6	1314.7	766.0	699.1	657.3	607.2	573.8	559.9	548.7	548.7
55°	8863.0	6829.7	1289.6	732.6	651.8	612.8	568.2	534.8	520.9	506.9	501.4
57.5°	10163.8	8013.5	1467.9	710.3	618.4	568.2	518.1	487.4	476.3	462.4	456.8
60°	11375.4	9194.5	2022.2	676.8	587.7	526.4	476.3	445.7	431.7	417.8	417.8
62.5°	12776.5	10656.8	2960.8	676.8	559.9	481.9	431.7	409.4	401.1	387.2	384.4
65°	14433.8	12169.3	3646.0	718.6	551.5	442.9	390.0	367.7	359.3	351.0	348.2
67.5°	15695.6	13038.3	3136.3	830.0	587.7	409.4	348.2	334.2	328.7	320.3	314.7
70°	15829.3	12509.1	1891.3	896.9	623.9	376.0	312.0	298.0	298.0	289.7	284.1
72.5°	14628.8	11099.7	1272.9	799.4	565.4	337.0	275.8	264.6	259.0	253.5	250.7
75°	12241.7	9414.5	1005.5	637.8	434.5	278.5	239.5	228.4	220.0	217.3	211.7
77.5°	8222.4	6119.5	743.7	498.6	320.3	225.6	200.5	189.4	181.0	178.3	169.9
80°	3158.6	2331.4	479.1	362.1	225.6	178.3	158.8	147.6	142.1	133.7	128.1
82.5°	930.3	754.8	267.4	222.8	144.8	122.6	114.2	105.8	97.5	89.1	86.3
85°	384.4	345.4	164.3	117.0	89.1	72.4	66.8	58.5	50.1	44.6	39.0
87.5°	178.3	147.6	75.2	44.6	30.6	16.7	8.4	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)