

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: P480082

Luminaire Tested: **IFLD-S-SA6A-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480082  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

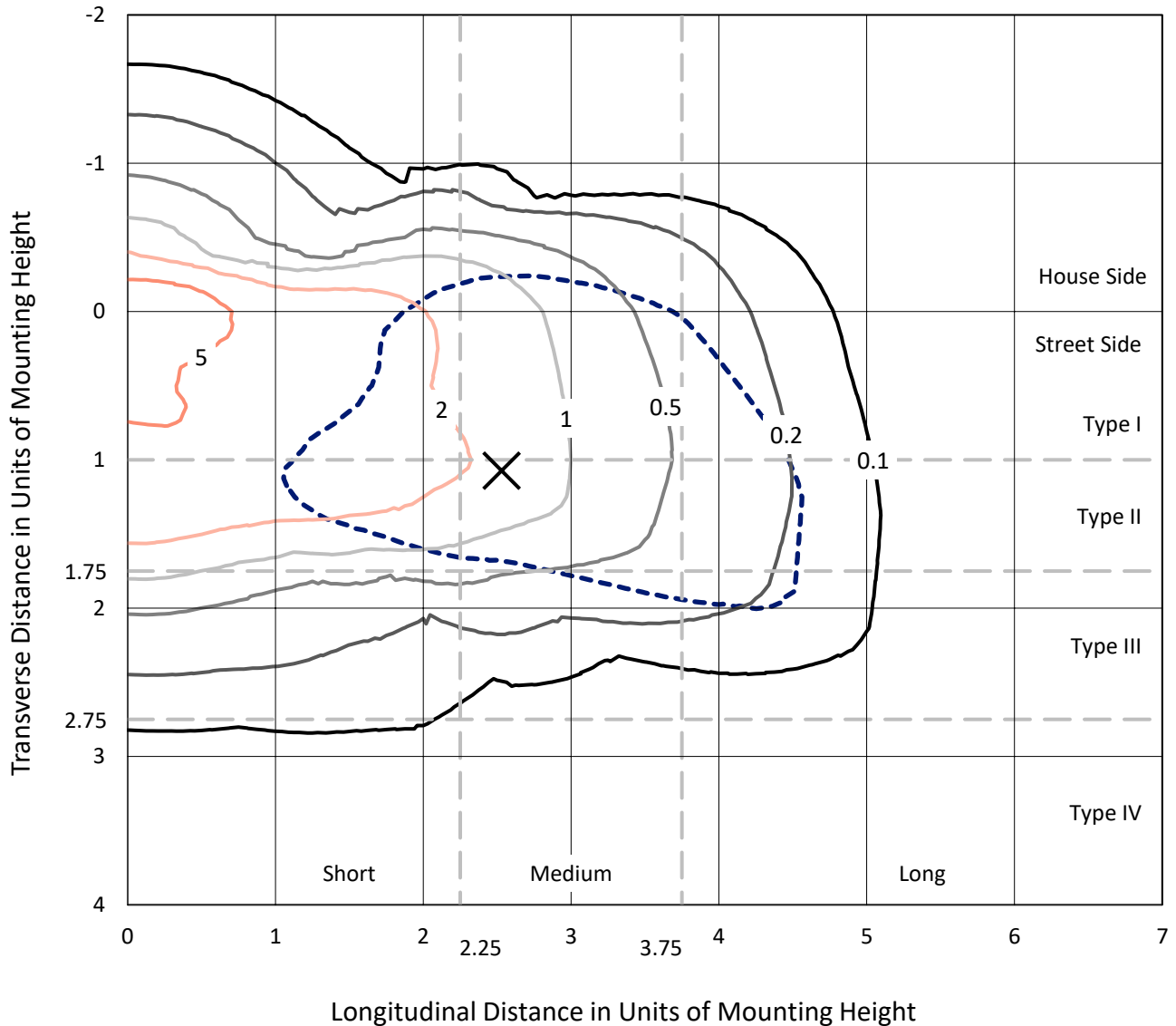
Lumens per Lamp: N/A  
Luminaire Lumens: 26541.9 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
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

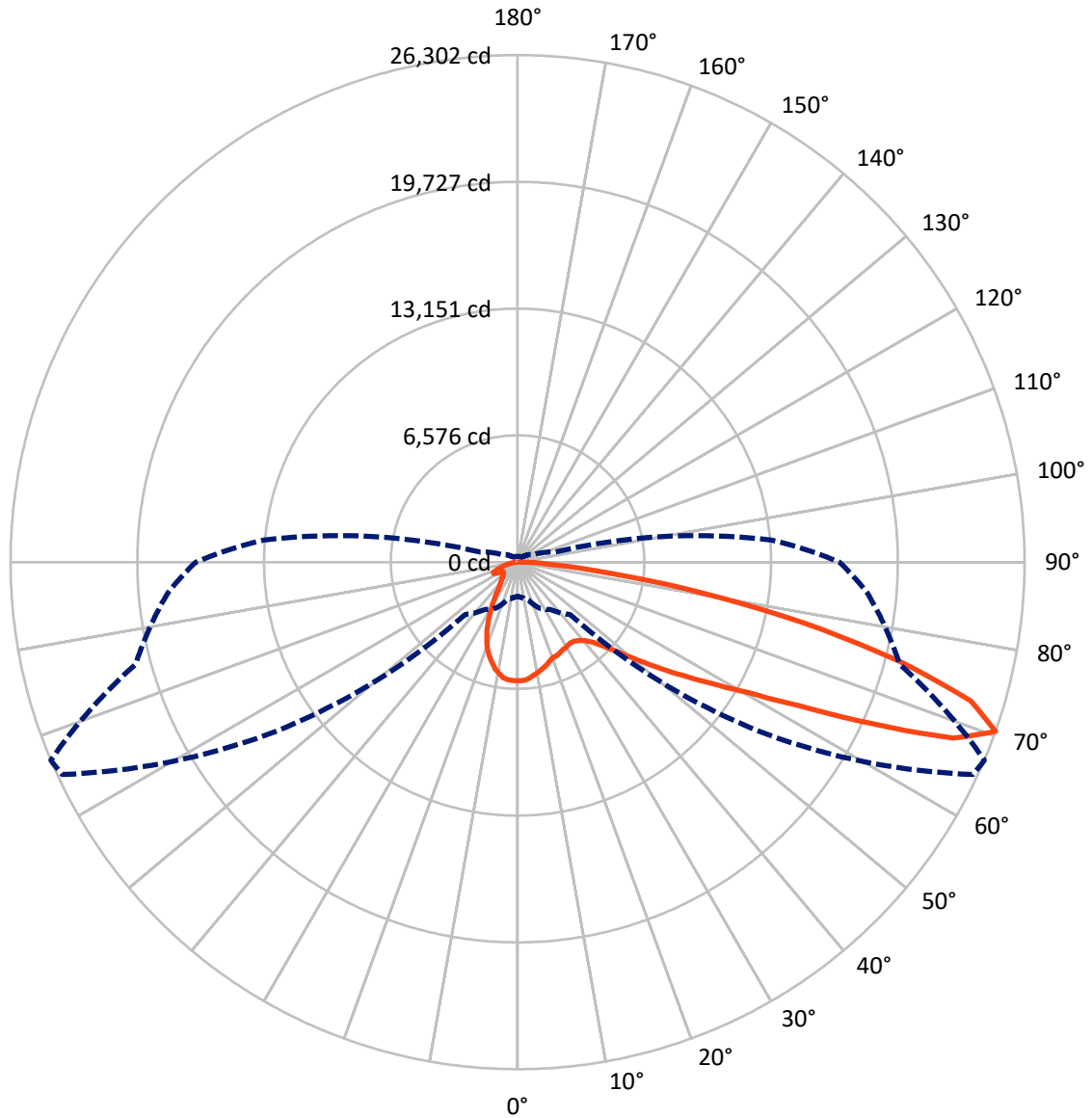
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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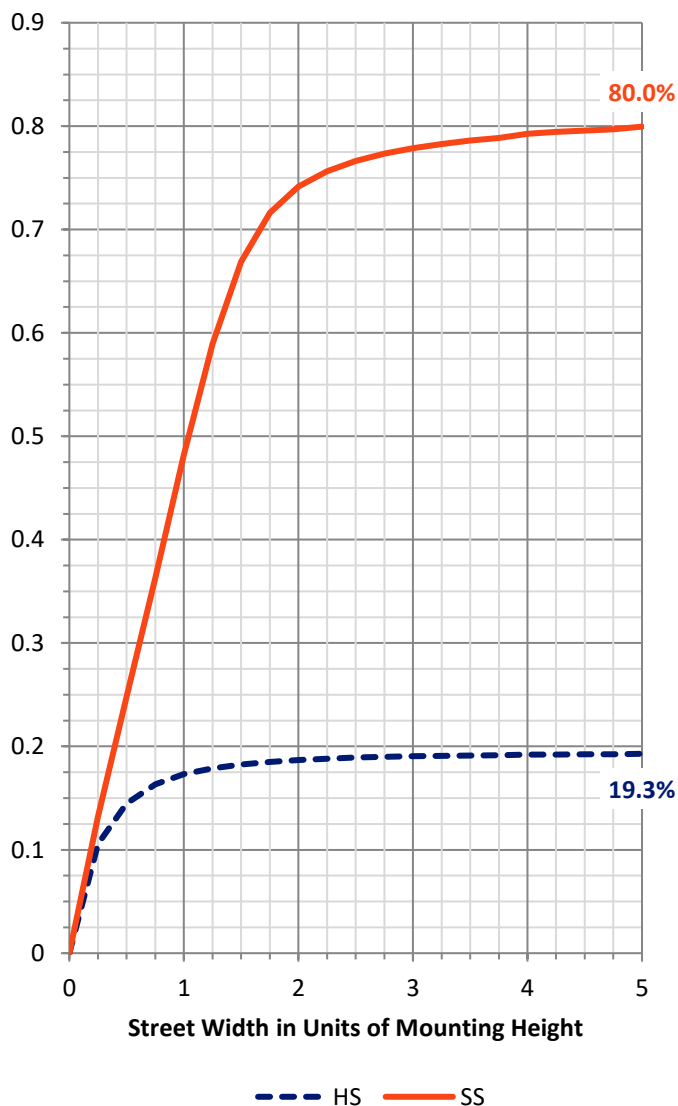
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5169.3	0.0	5169.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	21372.6	0.0	21372.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	26541.9	0.0	26541.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.1	2.0
10°-20°	1284.0	4.8
20°-30°	1733.9	6.5
30°-40°	2320.1	8.7
40°-50°	3411.7	12.9
50°-60°	5317.9	20.0
60°-70°	6550.8	24.7
70°-80°	4628.7	17.4
80°-90°	758.7	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°	26541.9	100.0
0°-180°	26541.9	100.0

**Coefficient of Utilization**

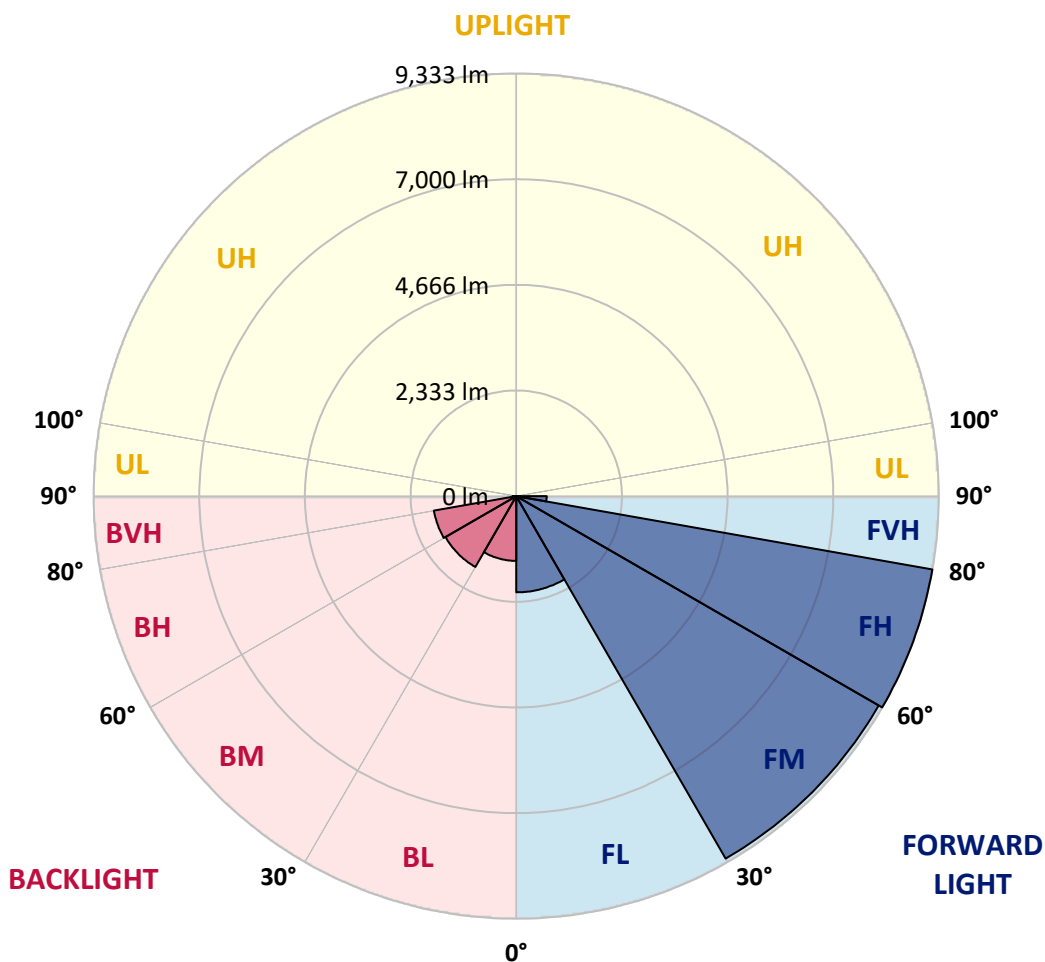


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.5	8.0			
FM (30°-60°)	9244.0	34.8			
FH (60°-80°)	9333.0	35.2			G4/12000
FVH (80°-90°)	671.2	2.5			G4/750
BL (0°-30°)	1429.5	5.4	B3/2500		
BM (30°-60°)	1805.7	6.8	B2/2500		
BH (60°-80°)	1846.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	87.5	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°	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4
2.5°	5721.2	5785.9	5809.4	5844.6	5935.7	6003.3	6044.4	6091.5	6147.3	6194.3	6223.7
5°	5321.6	5356.8	5412.7	5450.9	5565.5	5747.7	5871.1	6070.9	6065.0	6138.5	6250.1
7.5°	4933.7	4969.0	4995.4	5071.8	5236.4	5400.9	5627.2	5950.4	5926.9	6097.3	6270.7
10°	4692.7	4666.3	4675.1	4804.4	4933.7	5118.8	5403.9	5733.0	5818.2	6082.6	6329.5
12.5°	4466.5	4437.1	4507.6	4589.9	4748.6	4916.1	5256.9	5553.7	5683.0	6029.8	6355.9
15°	4325.4	4304.9	4393.0	4428.3	4616.3	4816.2	5057.1	5418.6	5559.6	5965.1	6314.8
17.5°	4246.1	4263.7	4296.1	4372.5	4492.9	4663.4	4927.8	5327.5	5389.2	5885.8	6306.0
20°	4260.8	4281.4	4284.3	4316.6	4398.9	4531.1	4801.5	5230.5	5271.6	5871.1	6329.5
22.5°	4378.3	4348.9	4360.7	4340.1	4363.6	4466.5	4704.5	5101.2	5259.9	5747.7	6279.5
25°	4554.6	4513.5	4507.6	4437.1	4393.0	4422.4	4686.9	5068.9	5171.7	5709.5	6276.6
27.5°	4866.1	4804.4	4804.4	4698.6	4519.4	4472.4	4636.9	5016.0	5107.1	5674.2	6209.0
30°	5165.8	5165.8	5168.8	5018.9	4819.1	4587.0	4657.5	4995.4	5054.2	5568.4	6117.9
32.5°	5530.2	5521.4	5506.7	5433.2	5124.7	4778.0	4757.4	4969.0	4998.3	5533.2	6091.5
35°	5885.8	5862.3	5976.9	5912.2	5597.8	5151.2	4860.2	4980.7	5045.4	5480.3	6009.2
37.5°	6153.2	6167.9	6405.9	6447.0	6176.7	5574.3	5151.2	5098.3	5160.0	5556.7	6009.2
40°	6499.9	6558.7	6782.0	6920.1	6755.6	6132.6	5612.5	5295.1	5339.2	5727.1	6138.5
42.5°	6955.4	7005.3	7290.4	7469.6	7422.6	6843.7	6068.0	5706.5	5671.3	6012.1	6332.4
45°	7557.8	7566.6	7854.5	8101.4	8198.4	7587.1	6790.8	6226.6	6197.2	6502.9	6688.0
47.5°	8274.8	8265.9	8445.2	8709.6	8971.2	8474.6	7622.4	7017.1	6911.3	7205.1	7278.6
50°	8968.2	8930.0	8971.2	9309.1	9811.6	9585.3	8633.2	7983.8	7878.1	8039.7	8166.0
52.5°	9350.2	9397.3	9285.6	9732.2	10704.9	10898.8	9973.2	9138.7	9047.6	9126.9	9347.3
55°	9082.8	9179.8	9106.3	9529.5	11095.7	12500.3	11706.9	10475.7	10358.1	10328.7	10690.2
57.5°	7945.6	8122.0	8136.6	8806.6	10960.5	13740.3	14145.8	12053.6	11877.3	11577.6	11950.8
60°	6100.3	6276.6	6411.8	7205.1	9802.8	14480.8	16972.6	14298.6	13716.8	12941.1	13164.4
62.5°	4275.5	4396.0	4531.1	5018.9	7557.8	14045.9	19417.5	17460.4	16387.9	14378.0	14657.1
65°	3114.8	3208.8	3346.9	3634.9	4642.8	11621.7	20551.7	21215.8	20199.1	16205.7	16170.4
67.5°	2344.9	2403.7	2585.9	3047.2	3217.6	7178.7	19376.3	25182.8	24360.0	18236.2	17387.0
70°	1774.8	1824.8	1995.2	2627.0	3006.1	3849.4	15286.0	26067.2	26302.3	20513.5	18203.9
72.5°	1222.4	1278.2	1469.2	2189.2	2862.1	3053.1	9594.1	23681.2	24571.5	21450.9	17328.2
75°	749.3	787.5	899.2	1660.2	2841.5	2985.5	5280.4	19405.7	20349.0	19820.0	15159.6
77.5°	528.9	526.0	546.6	972.6	2462.4	3003.1	3255.8	14219.3	15136.1	14607.2	10287.6
80°	384.9	387.9	408.4	581.8	1672.0	3053.1	2565.3	9523.6	9796.9	7616.5	4058.0
82.5°	232.1	243.9	293.8	393.8	1005.0	2756.3	2371.4	5292.2	4951.3	2444.8	1116.6
85°	123.4	123.4	173.4	249.8	534.8	2056.9	2283.2	2518.3	2109.8	758.1	414.3
87.5°	29.4	29.4	50.0	99.9	214.5	984.4	1557.4	1002.0	802.2	255.6	170.4
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°	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4	6144.4
2.5°	6211.9	6176.7	6220.8	6132.6	6062.1	6065.0	5956.3	5950.4	5935.7	5859.3	5885.8
5°	6282.5	6253.1	6203.1	6106.2	5950.4	5794.7	5700.6	5580.2	5530.2	5503.8	5515.5
7.5°	6350.0	6297.2	6153.2	6018.0	5777.0	5483.2	5312.8	5151.2	4945.5	4921.9	4880.8
10°	6367.7	6256.0	6070.9	5782.9	5462.6	5136.5	4748.6	4448.9	4290.2	4166.8	4119.7
12.5°	6341.2	6294.2	5938.7	5568.4	5083.6	4572.3	4119.7	3696.6	3402.8	3250.0	3208.8
15°	6338.3	6256.0	5791.7	5242.2	4622.2	3955.2	3311.7	2803.3	2494.8	2368.4	2368.4
17.5°	6341.2	6144.4	5618.4	4913.1	4078.6	3176.5	2468.3	2051.1	1880.6	1863.0	1877.7
20°	6282.5	6062.1	5436.2	4525.3	3396.9	2386.0	1792.5	1622.0	1622.0	1645.5	1654.4
22.5°	6229.6	5938.7	5148.2	4046.3	2703.4	1727.8	1457.5	1407.5	1463.4	1504.5	1522.1
25°	6156.1	5835.8	4854.4	3549.7	2056.9	1392.8	1266.5	1278.2	1331.1	1404.6	1398.7
27.5°	6050.3	5656.6	4504.7	2973.7	1530.9	1201.8	1169.5	1175.4	1231.2	1263.5	1257.7
30°	5929.8	5474.4	4181.5	2400.7	1213.6	1101.9	1099.0	1113.7	1122.5	1140.1	1137.2
32.5°	5777.0	5233.4	3837.7	1865.9	1093.1	1046.1	1034.3	1025.5	1034.3	1031.4	1022.6
35°	5668.3	5104.1	3488.0	1422.2	1025.5	996.1	987.3	972.6	960.9	943.3	940.3
37.5°	5638.9	4974.8	3120.7	1160.7	972.6	957.9	928.6	902.1	887.4	878.6	872.7
40°	5621.3	4889.6	2762.2	1019.7	928.6	913.9	878.6	843.3	828.7	819.8	822.8
42.5°	5683.0	4842.6	2397.8	949.1	890.4	863.9	825.7	784.6	781.6	775.8	784.6
45°	5900.5	4901.4	2059.9	899.2	852.2	808.1	758.1	737.6	734.6	728.7	734.6
47.5°	6394.1	5048.3	1771.9	866.9	811.0	772.8	719.9	690.5	687.6	684.7	684.7
50°	7075.9	5500.8	1530.9	828.7	784.6	731.7	681.7	649.4	643.5	631.8	631.8
52.5°	8145.5	6261.9	1387.0	808.1	737.6	693.5	640.6	605.3	590.6	578.9	578.9
55°	9350.2	7205.1	1360.5	772.8	687.6	646.5	599.4	564.2	549.5	534.8	528.9
57.5°	10722.5	8454.0	1548.6	749.3	652.3	599.4	546.6	514.2	502.5	487.8	481.9
60°	12000.7	9699.9	2133.3	714.0	620.0	555.4	502.5	470.2	455.5	440.8	440.8
62.5°	13478.8	11242.6	3123.6	714.0	590.6	508.4	455.5	432.0	423.1	408.4	405.5
65°	15227.2	12838.2	3846.5	758.1	581.8	467.2	411.4	387.9	379.1	370.2	367.3
67.5°	16558.3	13755.0	3308.7	875.7	620.0	432.0	367.3	352.6	346.7	337.9	332.0
70°	16699.4	13196.7	1995.2	946.2	658.2	396.7	329.1	314.4	314.4	305.6	299.7
72.5°	15432.9	11709.8	1342.9	843.3	596.5	355.6	290.9	279.2	273.3	267.4	264.5
75°	12914.6	9932.1	1060.8	672.9	458.4	293.8	252.7	241.0	232.1	229.2	223.3
77.5°	8674.4	6455.8	784.6	526.0	337.9	238.0	211.6	199.8	191.0	188.1	179.2
80°	3332.2	2459.5	505.4	382.0	238.0	188.1	167.5	155.7	149.9	141.0	135.2
82.5°	981.5	796.3	282.1	235.1	152.8	129.3	120.5	111.7	102.8	94.0	91.1
85°	405.5	364.4	173.4	123.4	94.0	76.4	70.5	61.7	52.9	47.0	41.1
87.5°	188.1	155.7	79.3	47.0	32.3	17.6	8.8	2.9	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)