

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: P480916

Luminaire Tested: **IFLD-L-SA8A-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480916
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

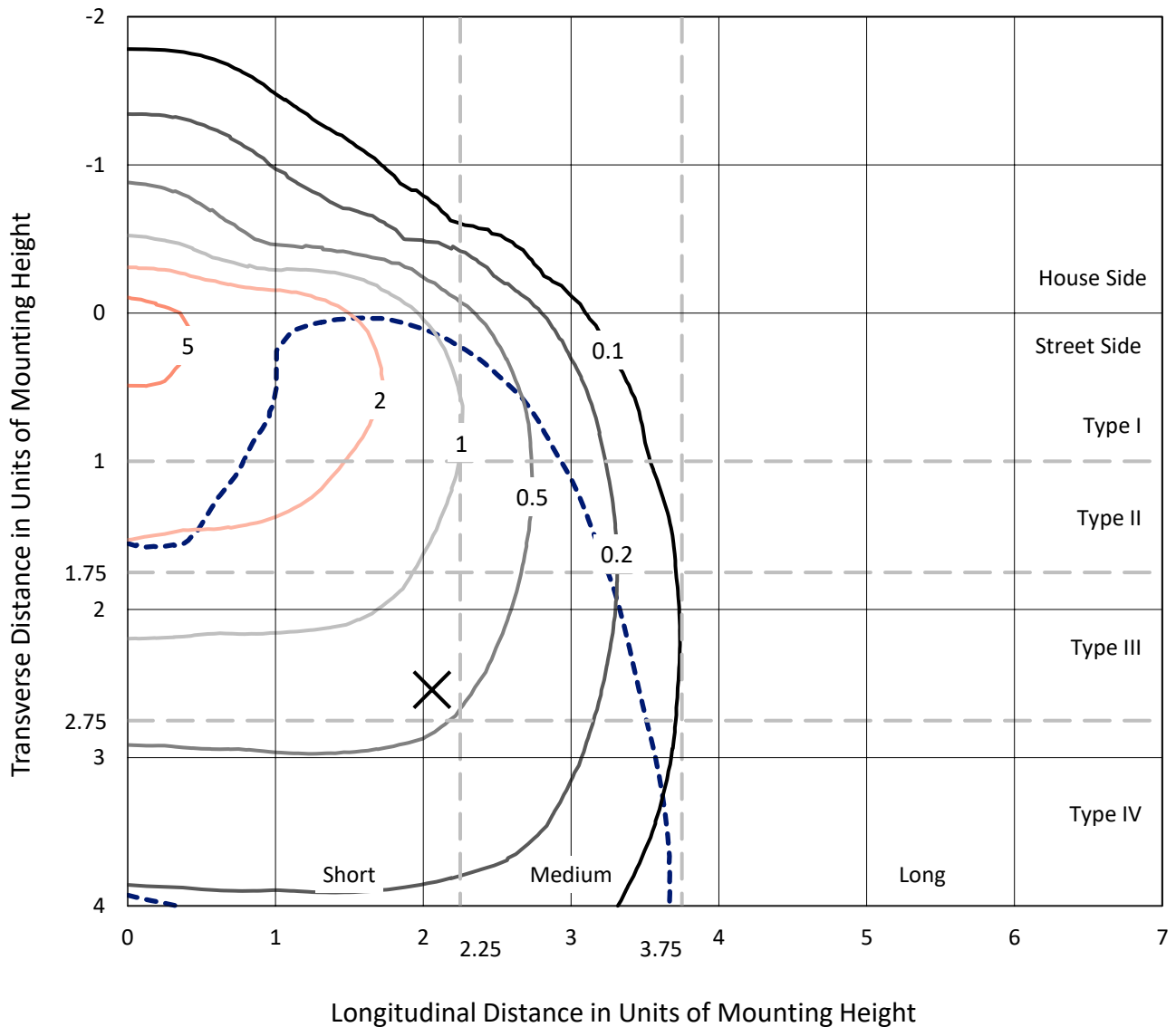
Lumens per Lamp: N/A
Luminaire Lumens: 33135.4 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

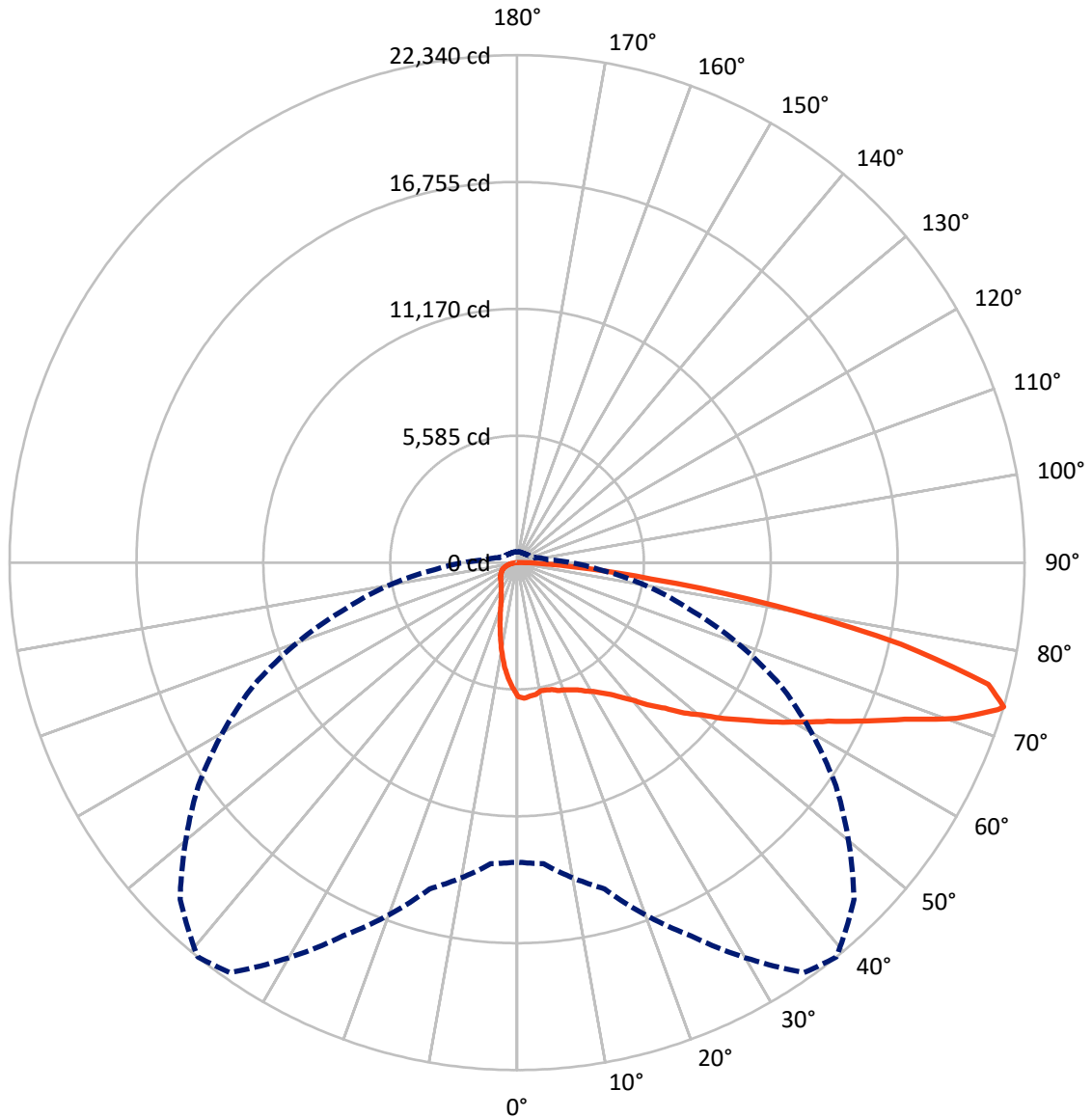
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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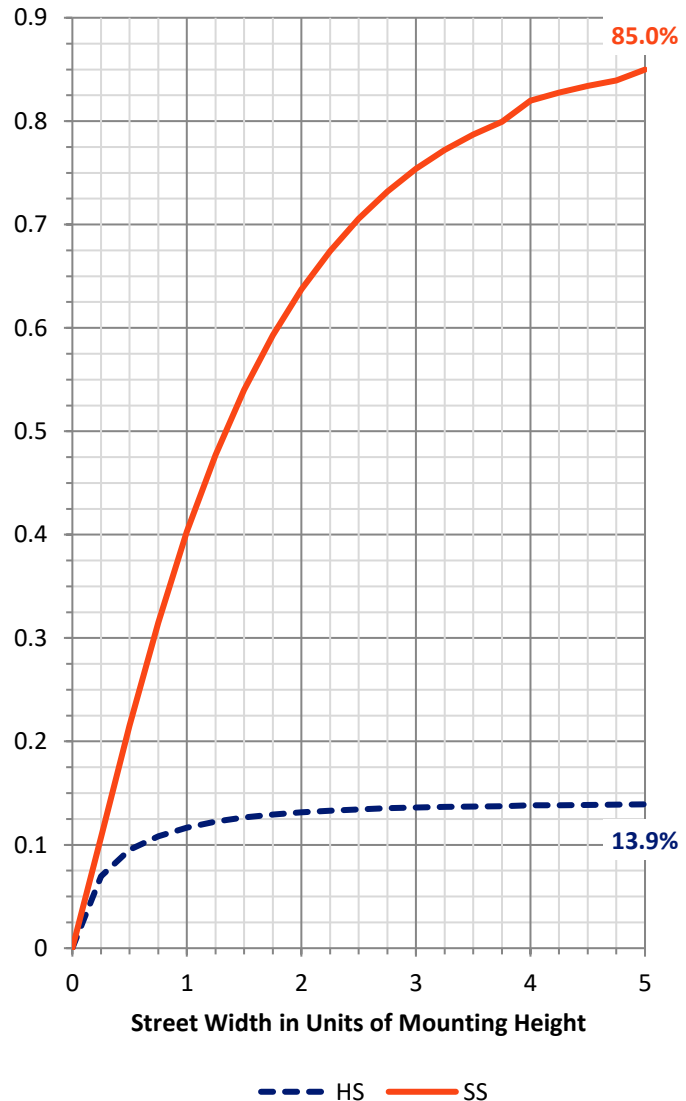
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4657.9	0.0	4657.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	28477.5	0.0	28477.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	33135.4	0.0	33135.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.0	1.5
10°-20°	1301.6	3.9
20°-30°	1989.0	6.0
30°-40°	2900.1	8.8
40°-50°	4382.3	13.2
50°-60°	6345.8	19.2
60°-70°	8062.7	24.3
70°-80°	6536.0	19.7
80°-90°	1105.9	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°	33135.4	100.0
0°-180°	33135.4	100.0

Coefficient of Utilization



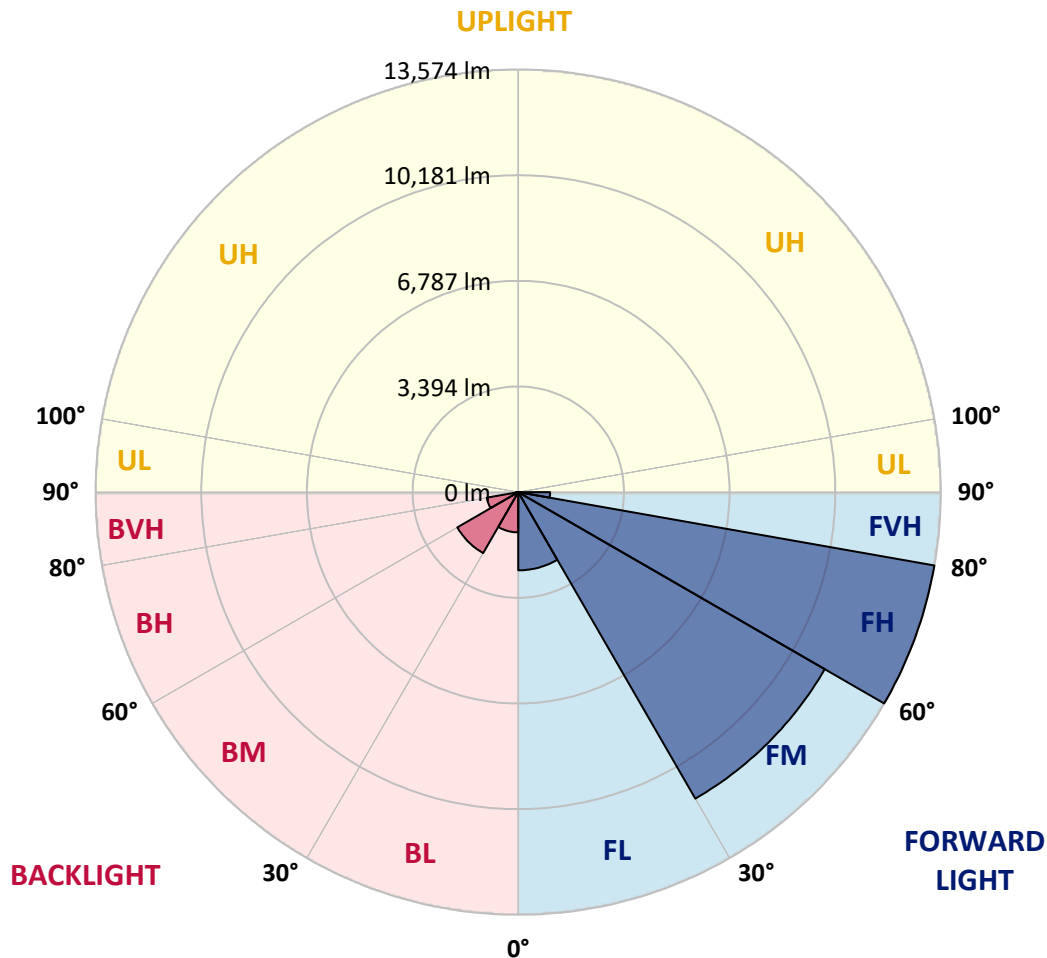
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2510.9	7.6			
FM (30°-60°)	11367.6	34.3			
FH (60°-80°)	13574.2	41.0			G5
FVH (80°-90°)	1024.7	3.1			G5
BL (0°-30°)	1291.7	3.9	B3/2500		
BM (30°-60°)	2260.6	6.8	B2/2500		
BH (60°-80°)	1024.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	81.1	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°	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3
2.5°	6039.2	5976.2	5987.3	5965.0	5987.3	5979.9	5968.7	5913.1	5968.7	5913.1	5898.3
5°	5957.6	5957.6	5994.7	5939.1	5946.5	5909.4	5946.5	5905.7	5868.6	5776.0	5750.0
7.5°	5931.7	5928.0	5931.7	5853.8	5890.9	5868.6	5831.6	5787.1	5712.9	5653.6	5568.3
10°	5753.7	5790.8	5750.0	5772.2	5801.9	5735.2	5731.5	5720.3	5687.0	5609.1	5557.2
12.5°	5657.3	5720.3	5742.6	5724.1	5750.0	5757.4	5735.2	5720.3	5679.6	5627.7	5479.4
15°	5698.1	5624.0	5687.0	5809.3	5783.4	5801.9	5805.6	5790.8	5772.2	5675.9	5579.5
17.5°	5709.2	5664.7	5798.2	5824.2	5857.5	5924.2	5879.8	5876.1	5805.6	5738.9	5598.0
20°	5735.2	5716.6	5824.2	5961.3	5965.0	5976.2	5998.4	5942.8	5905.7	5790.8	5575.8
22.5°	5831.6	5894.6	5994.7	6054.0	6087.4	6094.8	6094.8	5983.6	5942.8	5850.1	5679.6
25°	6120.7	6054.0	6194.9	6265.3	6217.1	6206.0	6180.1	6080.0	6035.5	5953.9	5727.8
27.5°	6332.1	6328.3	6409.9	6506.3	6376.5	6402.5	6309.8	6280.1	6180.1	6135.6	5813.0
30°	6621.2	6702.8	6699.1	6728.7	6558.2	6587.9	6469.2	6413.6	6358.0	6384.0	6065.1
32.5°	6991.9	6962.3	7010.5	6988.2	6817.7	6843.7	6702.8	6617.5	6636.0	6713.9	6409.9
35°	7229.2	7199.6	7218.1	7218.1	7166.2	7136.5	7077.2	6966.0	7055.0	7199.6	6795.5
37.5°	7485.0	7522.1	7629.6	7607.4	7540.6	7540.6	7533.2	7455.4	7570.3	7926.2	7410.9
40°	7711.2	7811.3	7878.0	7922.5	8000.3	8000.3	8063.4	8018.9	8226.5	8797.4	8163.5
42.5°	7948.4	7952.1	8315.5	8348.8	8523.1	8597.2	8645.4	8682.5	9071.7	9709.4	8967.9
45°	8252.4	8271.0	8589.8	8845.6	9116.2	9142.2	9323.8	9446.2	9924.4	10706.7	9842.9
47.5°	8652.8	8630.6	8971.6	9379.4	9716.8	9894.8	10113.5	10246.9	10836.4	11789.2	10799.3
50°	9179.2	9112.5	9309.0	9950.4	10347.0	10543.5	10932.8	11155.2	11844.8	12823.5	11455.5
52.5°	9820.6	9709.4	9865.1	10565.8	11010.7	11407.3	11778.1	12026.4	12745.7	13624.3	11941.2
55°	10499.0	10269.2	10313.7	11218.3	11859.6	12234.1	12742.0	13001.5	13735.5	14343.5	12426.8
57.5°	11170.1	11025.5	10936.5	11844.8	12871.7	13231.3	13698.4	14035.8	14658.6	14981.2	12838.3
60°	11733.6	11696.5	11551.9	12816.1	13943.1	14250.8	14740.2	14947.8	15418.6	15570.6	12845.8
62.5°	12197.0	12070.9	12300.8	13598.3	15033.1	15381.5	15919.1	15937.6	16271.3	15937.6	12467.6
65°	12560.3	12567.7	12934.7	14543.7	16293.5	16808.9	17242.6	17194.4	16979.4	15718.9	11574.2
67.5°	12890.2	13031.1	13568.7	15581.7	17913.6	18399.3	18881.2	18243.6	17172.2	14695.7	9828.0
70°	13149.8	13290.6	14425.1	16845.9	19822.9	20534.7	20642.2	18658.8	16286.1	12449.1	7414.6
72.5°	13120.1	13375.9	14910.7	17854.3	21517.1	22132.5	21265.0	17491.0	13568.7	8678.8	4326.4
73°	13183.1	13309.2	14869.9	18136.1	22032.4	22340.1	20975.8	17124.0	12797.6	7785.3	3659.1
75°	11967.1	12393.5	14132.2	17676.4	21480.0	21424.4	19315.0	14269.4	9097.7	4089.1	1772.1
77.5°	8853.0	9123.6	11136.7	14536.3	17631.9	17276.0	14569.6	9119.9	4319.0	1516.3	956.5
80°	4326.4	4537.7	5902.0	8393.3	11529.7	11559.3	9042.1	4745.3	1849.9	856.4	652.5
82.5°	2161.3	2287.4	2836.1	3688.8	5672.2	5942.8	4585.9	2698.9	1145.6	485.7	370.7
85°	1412.5	1501.5	1746.1	1805.5	2406.0	2539.5	2135.4	2105.7	745.2	263.2	300.3
87.5°	937.9	952.8	1071.4	912.0	963.9	926.8	1030.6	1327.2	218.7	111.2	81.6
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°	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3	5898.3
2.5°	5879.8	5827.9	5772.2	5694.4	5638.8	5553.5	5475.7	5442.3	5434.9	5438.6	5401.5
5°	5727.8	5653.6	5542.4	5383.0	5290.3	5149.4	5030.8	4967.8	4901.0	4912.2	4882.5
7.5°	5516.4	5434.9	5264.4	5079.0	4849.1	4648.9	4537.7	4382.0	4293.0	4226.3	4263.4
10°	5449.7	5308.8	5053.0	4797.2	4441.3	4178.1	3922.3	3744.4	3622.0	3503.4	3555.3
12.5°	5416.4	5275.5	4919.6	4541.4	4081.7	3681.3	3321.7	3103.0	2928.8	2825.0	2865.7
15°	5386.7	5212.4	4793.5	4259.7	3744.4	3217.9	2813.8	2524.7	2357.8	2257.7	2268.9
17.5°	5427.5	5179.1	4608.2	3985.3	3373.6	2810.1	2361.5	2061.3	1890.7	1827.7	1812.9
20°	5386.7	5142.0	4426.5	3711.0	3002.9	2420.9	1990.8	1742.4	1623.8	1571.9	1560.8
22.5°	5401.5	5053.0	4237.4	3407.0	2658.1	2094.6	1742.4	1553.4	1460.7	1434.7	1442.1
25°	5472.0	5001.1	4048.4	3073.3	2317.1	1853.6	1583.0	1438.4	1371.7	1345.7	1353.2
27.5°	5523.9	5045.6	3877.8	2758.2	2027.9	1638.6	1449.6	1353.2	1308.7	1290.1	1286.4
30°	5653.6	5071.6	3711.0	2476.5	1790.6	1497.7	1356.9	1279.0	1249.4	1238.2	1234.5
32.5°	5846.4	5119.8	3518.2	2217.0	1616.4	1364.3	1282.7	1216.0	1208.6	1197.5	1201.2
35°	6161.5	5286.6	3303.2	1994.5	1449.6	1275.3	1204.9	1160.4	1160.4	1160.4	1171.5
37.5°	6613.8	5520.2	3110.4	1783.2	1342.0	1197.5	1138.1	1123.3	1115.9	1127.0	1134.4
40°	7195.8	5801.9	2954.7	1616.4	1249.4	1145.6	1093.7	1086.2	1082.5	1078.8	1086.2
42.5°	7833.5	6161.5	2821.2	1486.6	1182.6	1089.9	1052.9	1045.5	1030.6	1038.0	1049.2
45°	8467.4	6606.4	2702.6	1382.8	1138.1	1060.3	1008.4	1004.7	997.3	993.6	1012.1
47.5°	9171.8	7043.9	2665.5	1319.8	1104.8	1015.8	978.7	975.0	952.8	949.1	963.9
50°	9720.5	7366.4	2706.3	1290.1	1056.6	982.4	956.5	937.9	919.4	900.9	900.9
52.5°	10098.7	7588.8	2736.0	1267.9	1030.6	937.9	904.6	897.2	878.6	860.1	852.7
55°	10439.7	7722.3	2743.4	1271.6	1004.7	886.0	863.8	860.1	849.0	819.3	811.9
57.5°	10554.7	7666.7	2595.1	1238.2	989.8	852.7	823.0	830.4	815.6	789.7	785.9
60°	10543.5	7281.1	2257.7	1193.7	956.5	815.6	778.5	800.8	800.8	771.1	767.4
62.5°	9902.2	6391.4	1846.2	1108.5	919.4	778.5	737.8	771.1	782.2	763.7	760.0
65°	8571.3	5205.0	1542.2	1023.2	863.8	737.8	697.0	734.0	752.6	745.2	741.5
67.5°	7092.0	3981.6	1282.7	912.0	793.4	682.1	648.8	674.7	685.8	689.6	693.3
70°	5012.3	2650.7	1071.4	789.7	697.0	622.8	585.8	589.5	585.8	596.9	596.9
72.5°	2724.9	1527.4	871.2	671.0	600.6	541.3	515.3	496.8	496.8	493.1	493.1
73°	2331.9	1371.7	830.4	652.5	574.6	526.4	496.8	481.9	481.9	478.2	474.5
75°	1308.7	1004.7	711.8	559.8	496.8	459.7	437.5	415.2	411.5	411.5	411.5
77.5°	860.1	782.2	567.2	448.6	400.4	367.0	359.6	337.4	337.4	337.4	333.7
80°	645.1	615.4	437.5	341.1	307.7	281.8	274.3	259.5	255.8	241.0	244.7
82.5°	430.0	485.7	318.8	241.0	207.6	192.8	192.8	189.1	177.9	159.4	159.4
85°	341.1	396.7	229.9	148.3	122.3	103.8	107.5	103.8	100.1	81.6	77.9
87.5°	63.0	159.4	66.7	40.8	29.7	18.5	18.5	11.1	7.4	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)