

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: P480941

Luminaire Tested: **IFLD-S-SA6B-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480941
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

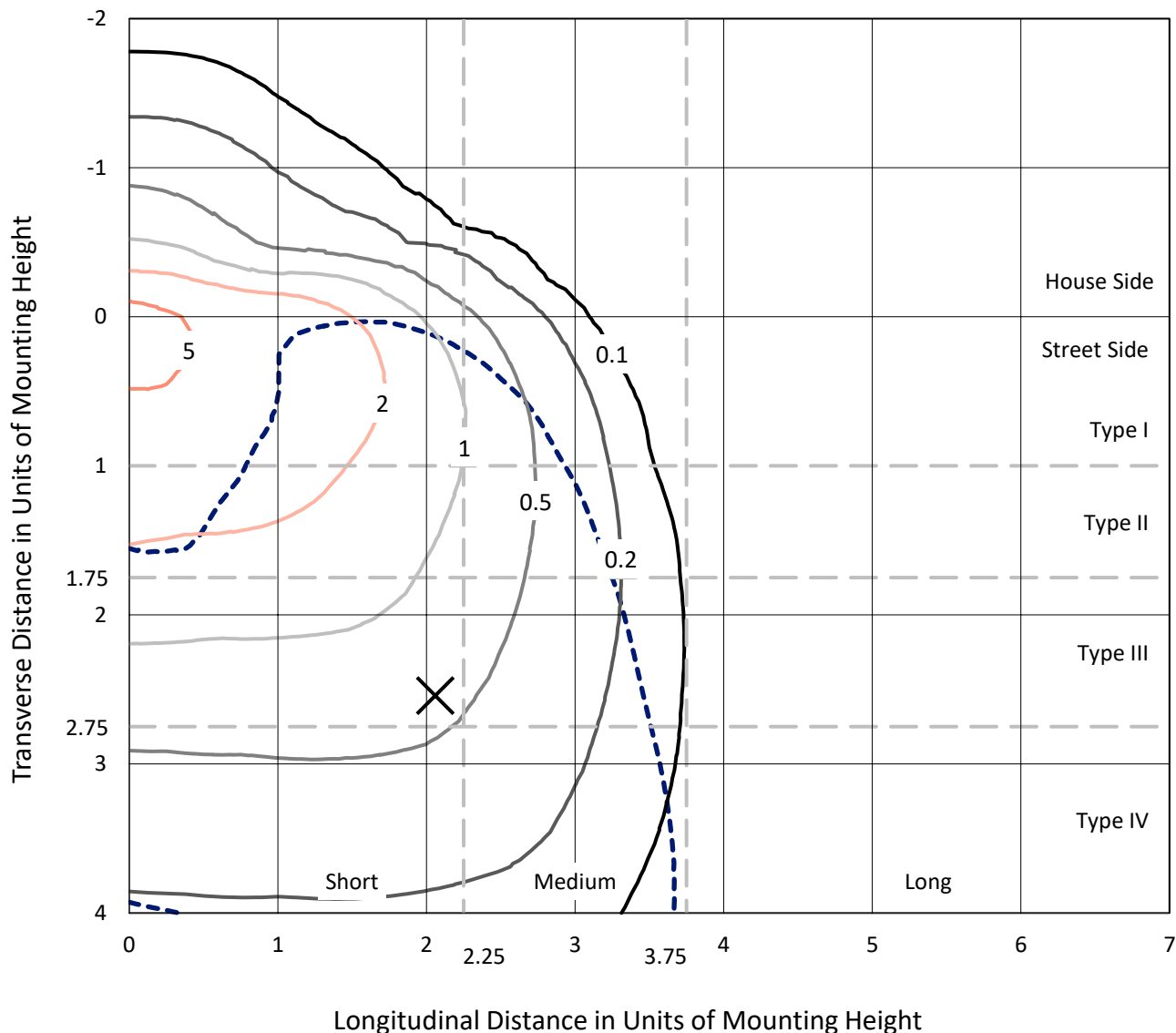
Lumens per Lamp: N/A
Luminaire Lumens: 33026.9 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

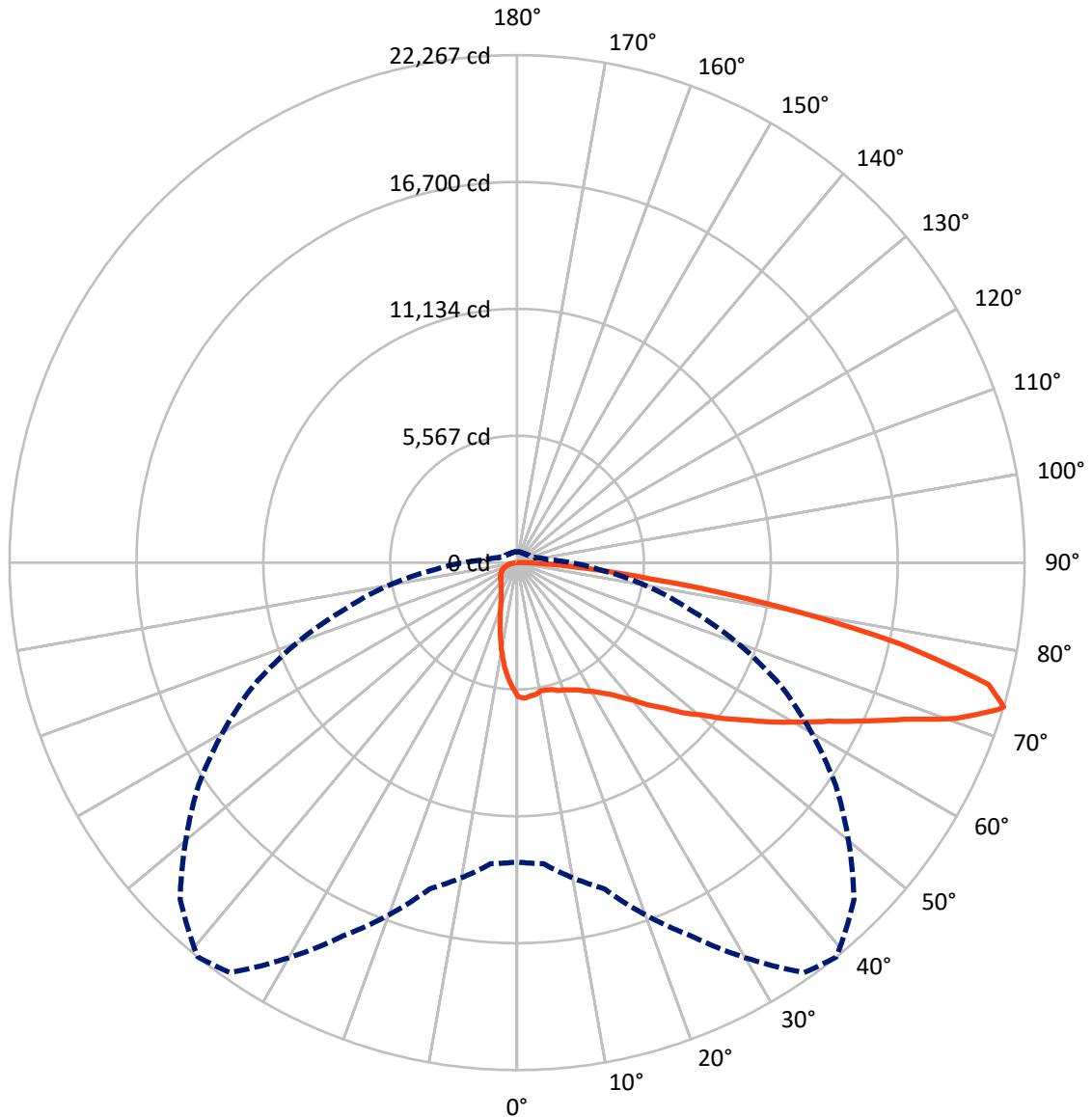
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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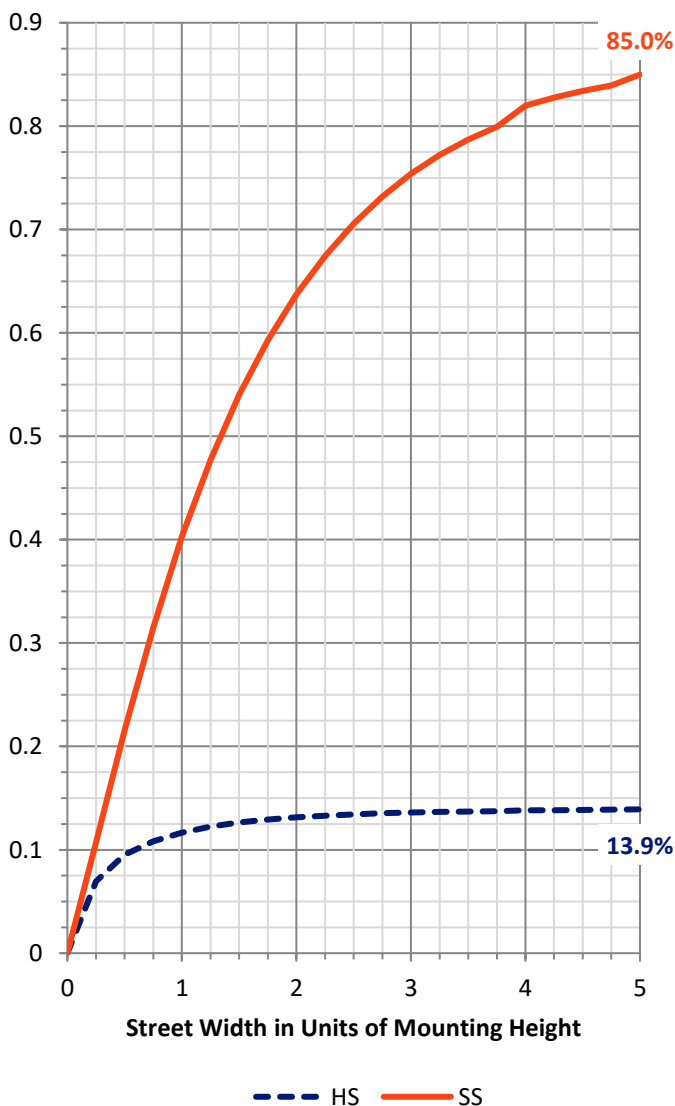
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4642.7	0.0	4642.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	28384.2	0.0	28384.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	33026.9	0.0	33026.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.3	1.5
10°-20°	1297.4	3.9
20°-30°	1982.5	6.0
30°-40°	2890.6	8.8
40°-50°	4367.9	13.2
50°-60°	6325.0	19.2
60°-70°	8036.3	24.3
70°-80°	6514.6	19.7
80°-90°	1102.2	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°	33026.9	100.0
0°-180°	33026.9	100.0

Coefficient of Utilization



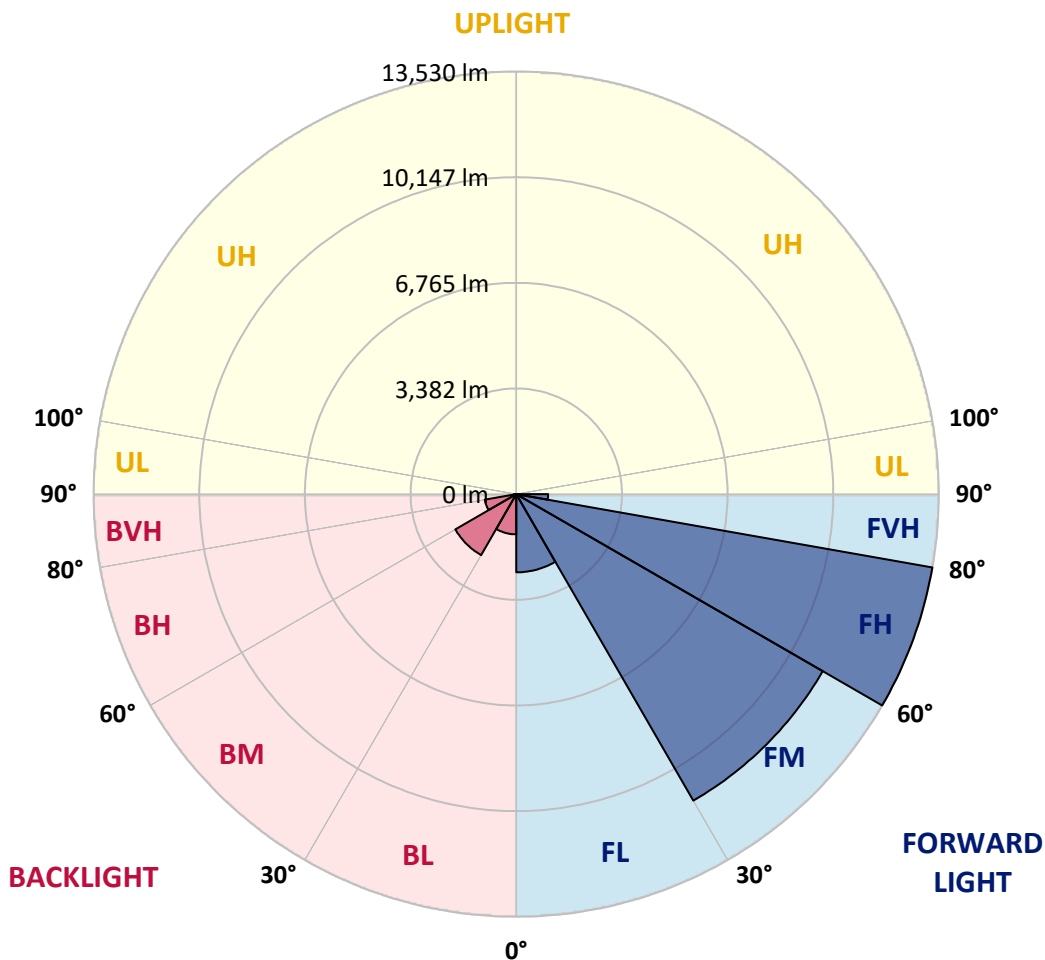
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2502.7	7.6			
FM (30°-60°)	11330.3	34.3			
FH (60°-80°)	13529.8	41.0			G5
FVH (80°-90°)	1021.4	3.1			G5
BL (0°-30°)	1287.5	3.9	B3/2500		
BM (30°-60°)	2253.2	6.8	B2/2500		
BH (60°-80°)	1021.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	80.9	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°	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0
2.5°	6019.4	5956.6	5967.7	5945.5	5967.7	5960.3	5949.2	5893.8	5949.2	5893.8	5879.0
5°	5938.1	5938.1	5975.1	5919.6	5927.0	5890.1	5927.0	5886.4	5849.4	5757.0	5731.2
7.5°	5912.2	5908.5	5912.2	5834.6	5871.6	5849.4	5812.5	5768.1	5694.2	5635.1	5550.1
10°	5734.9	5771.8	5731.2	5753.3	5782.9	5716.4	5712.7	5701.6	5668.4	5590.8	5539.0
12.5°	5638.8	5701.6	5723.8	5705.3	5731.2	5738.6	5716.4	5701.6	5661.0	5609.2	5461.4
15°	5679.4	5605.5	5668.4	5790.3	5764.4	5782.9	5786.6	5771.8	5753.3	5657.3	5561.2
17.5°	5690.5	5646.2	5779.2	5805.1	5838.3	5904.9	5860.5	5856.8	5786.6	5720.1	5579.7
20°	5716.4	5697.9	5805.1	5941.8	5945.5	5956.6	5978.8	5923.3	5886.4	5771.8	5557.5
22.5°	5812.5	5875.3	5975.1	6034.2	6067.4	6074.8	6074.8	5964.0	5923.3	5830.9	5661.0
25°	6100.7	6034.2	6174.6	6244.8	6196.8	6185.7	6159.8	6060.0	6015.7	5934.4	5709.0
27.5°	6311.3	6307.6	6388.9	6485.0	6355.7	6381.5	6289.1	6259.6	6159.8	6115.5	5794.0
30°	6599.5	6680.8	6677.1	6706.7	6536.7	6566.3	6448.0	6392.6	6337.2	6363.0	6045.3
32.5°	6969.1	6939.5	6987.5	6965.4	6795.4	6821.2	6680.8	6595.8	6614.3	6691.9	6388.9
35°	7205.5	7176.0	7194.5	7194.5	7142.7	7113.2	7054.0	6943.2	7031.9	7176.0	6773.2
37.5°	7460.5	7497.5	7604.6	7582.4	7515.9	7515.9	7508.5	7430.9	7545.5	7900.2	7386.6
40°	7685.9	7785.7	7852.2	7896.5	7974.1	7974.1	8037.0	7992.6	8199.5	8768.6	8136.7
42.5°	7922.4	7926.1	8288.2	8321.5	8495.2	8569.1	8617.1	8654.0	9042.0	9677.6	8938.6
45°	8225.4	8243.9	8561.7	8816.6	9086.4	9112.2	9293.3	9415.2	9891.9	10671.6	9810.6
47.5°	8624.5	8602.3	8942.3	9348.7	9685.0	9862.4	10080.4	10213.4	10800.9	11750.6	10764.0
50°	9149.2	9082.7	9278.5	9917.8	10313.2	10509.0	10897.0	11118.7	11806.0	12781.5	11418.0
52.5°	9788.5	9677.6	9832.8	10531.2	10974.6	11370.0	11739.5	11987.1	12703.9	13579.7	11902.1
55°	10464.7	10235.6	10279.9	11181.5	11820.8	12194.0	12700.2	12958.9	13690.5	14296.5	12386.1
57.5°	11133.5	10989.4	10900.7	11806.0	12829.6	13188.0	13653.6	13989.8	14610.6	14932.1	12796.3
60°	11695.2	11658.2	11514.1	12774.1	13897.5	14204.2	14691.9	14898.8	15368.1	15519.6	12803.7
62.5°	12157.0	12031.4	12260.5	13553.8	14983.8	15331.2	15867.0	15885.5	16218.0	15885.5	12426.8
65°	12519.2	12526.6	12892.4	14496.1	16240.2	16753.8	17186.1	17138.1	16923.8	15667.4	11536.3
67.5°	12848.0	12988.5	13524.3	15530.7	17855.0	18339.0	18819.4	18183.8	17115.9	14647.6	9795.8
70°	13106.7	13247.1	14377.8	16790.8	19758.0	20467.4	20574.6	18597.7	16232.8	12408.3	7390.3
72.5°	13077.1	13332.1	14861.9	17795.8	21446.7	22060.0	21195.4	17433.7	13524.3	8650.3	4312.2
73°	13140.0	13265.6	14821.2	18076.7	21960.3	22267.0	20907.2	17067.9	12755.7	7759.8	3647.1
75°	11927.9	12352.9	14085.9	17618.5	21409.7	21354.3	19251.7	14222.6	9067.9	4075.8	1766.3
77.5°	8824.0	9093.8	11100.2	14488.7	17574.1	17219.4	14521.9	9090.1	4304.9	1511.3	953.3
80°	4312.2	4522.9	5882.7	8365.8	11491.9	11521.5	9012.5	4729.8	1843.9	853.6	650.3
82.5°	2154.3	2279.9	2826.8	3676.7	5653.6	5923.3	4570.9	2690.1	1141.8	484.1	369.5
85°	1407.9	1496.5	1740.4	1799.5	2398.2	2531.2	2128.4	2098.8	742.7	262.4	299.3
87.5°	934.9	949.7	1067.9	909.0	960.7	923.8	1027.3	1322.9	218.0	110.9	81.3
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°	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0	5879.0
2.5°	5860.5	5808.8	5753.3	5675.8	5620.3	5535.3	5457.7	5424.5	5417.1	5420.8	5383.8
5°	5709.0	5635.1	5524.3	5365.4	5273.0	5132.6	5014.3	4951.5	4885.0	4896.1	4866.5
7.5°	5498.4	5417.1	5247.1	5062.4	4833.3	4633.7	4522.9	4367.7	4279.0	4212.5	4249.4
10°	5431.9	5291.5	5036.5	4781.5	4426.8	4164.4	3909.5	3732.1	3610.2	3491.9	3543.6
12.5°	5398.6	5258.2	4903.5	4526.6	4068.4	3669.3	3310.9	3092.8	2919.2	2815.7	2856.4
15°	5369.1	5195.4	4777.8	4245.7	3732.1	3207.4	2804.6	2516.4	2350.1	2250.3	2261.4
17.5°	5409.7	5162.1	4593.1	3972.3	3362.6	2800.9	2353.8	2054.5	1884.5	1821.7	1806.9
20°	5369.1	5125.2	4412.0	3698.8	2993.1	2412.9	1984.3	1736.7	1618.5	1566.7	1555.7
22.5°	5383.8	5036.5	4223.6	3395.8	2649.4	2087.8	1736.7	1548.3	1455.9	1430.0	1437.4
25°	5454.0	4984.8	4035.1	3063.3	2309.5	1847.6	1577.8	1433.7	1367.2	1341.3	1348.7
27.5°	5505.8	5029.1	3865.1	2749.2	2021.2	1633.3	1444.8	1348.7	1304.4	1285.9	1282.2
30°	5635.1	5055.0	3698.8	2468.4	1784.8	1492.8	1352.4	1274.8	1245.3	1234.2	1230.5
32.5°	5827.3	5103.0	3506.7	2209.7	1611.1	1359.8	1278.5	1212.0	1204.6	1193.5	1197.2
35°	6141.3	5269.3	3292.4	1988.0	1444.8	1271.1	1200.9	1156.6	1156.6	1156.6	1167.7
37.5°	6592.1	5502.1	3100.2	1777.4	1337.6	1193.5	1134.4	1119.6	1112.2	1123.3	1130.7
40°	7172.3	5782.9	2945.0	1611.1	1245.3	1141.8	1090.1	1082.7	1079.0	1075.3	1082.7
42.5°	7807.9	6141.3	2812.0	1481.8	1178.8	1086.4	1049.4	1042.0	1027.3	1034.6	1045.7
45°	8439.7	6584.8	2693.8	1378.3	1134.4	1056.8	1005.1	1001.4	994.0	990.3	1008.8
47.5°	9141.8	7020.8	2656.8	1315.5	1101.2	1012.5	975.5	971.8	949.7	946.0	960.7
50°	9688.7	7342.3	2697.5	1285.9	1053.1	979.2	953.3	934.9	916.4	897.9	897.9
52.5°	10065.6	7564.0	2727.0	1263.7	1027.3	934.9	901.6	894.2	875.8	857.3	849.9
55°	10405.5	7697.0	2734.4	1267.4	1001.4	883.1	861.0	857.3	846.2	816.6	809.2
57.5°	10520.1	7641.6	2586.6	1234.2	986.6	849.9	820.3	827.7	812.9	787.1	783.4
60°	10509.0	7257.3	2250.3	1189.8	953.3	812.9	776.0	798.2	798.2	768.6	764.9
62.5°	9869.7	6370.4	1840.2	1104.9	916.4	776.0	735.3	768.6	779.7	761.2	757.5
65°	8543.2	5188.0	1537.2	1019.9	861.0	735.3	694.7	731.6	750.1	742.7	739.0
67.5°	7068.8	3968.6	1278.5	909.0	790.8	679.9	646.7	672.5	683.6	687.3	691.0
70°	4995.8	2642.0	1067.9	787.1	694.7	620.8	583.8	587.5	583.8	594.9	594.9
72.5°	2715.9	1522.4	868.4	668.8	598.6	539.5	513.6	495.2	495.2	491.5	491.5
73°	2324.2	1367.2	827.7	650.3	572.7	524.7	495.2	480.4	480.4	476.7	473.0
75°	1304.4	1001.4	709.5	558.0	495.2	458.2	436.0	413.9	410.2	410.2	410.2
77.5°	857.3	779.7	565.4	447.1	399.1	365.8	358.4	336.3	336.3	336.3	332.6
80°	643.0	613.4	436.0	340.0	306.7	280.8	273.4	258.7	255.0	240.2	243.9
82.5°	428.6	484.1	317.8	240.2	206.9	192.1	192.1	188.5	177.4	158.9	158.9
85°	340.0	395.4	229.1	147.8	121.9	103.5	107.2	103.5	99.8	81.3	77.6
87.5°	62.8	158.9	66.5	40.6	29.6	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)